# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-7112 **Page No** 1 of 16

**Validity** 18/11/2022 to 17/11/2024 **Last Amended on** -

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- LUBRICANTS | Anti-Freeze Coolants | density at 20°C | ASTM D 4052 |
| 2 | CHEMICAL- LUBRICANTS | Anti-Freeze Coolants | Density at 20°C | IS 1448 (Part 16) |
| 3 | CHEMICAL- LUBRICANTS | Anti-Freeze Coolants | Equilibrium Reflux Boiling Point | IS 5759- Annex -E |
| 4 | CHEMICAL- LUBRICANTS | Anti-Freeze Coolants | pH of 30 %v/v | JIS K 2234 Clause 8.4 |
| 5 | CHEMICAL- LUBRICANTS | Anti-Freeze Coolants | Water Content | ASTM D 6304 |
| 6 | CHEMICAL- LUBRICANTS | Lubricating Grease | Appearance | BPCL/SOP-09 Issue no.04 dt..01.11.2020 |
| 7 | CHEMICAL- LUBRICANTS | Lubricating Grease | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 8 | CHEMICAL- LUBRICANTS | Lubricating Grease | Cone Penetration of Lubricating Grease | ASTM D 217 |
| 9 | CHEMICAL- LUBRICANTS | Lubricating Grease | Consistency of lubricating Grease at 25 + 0.5°C, | IS 1448 (Part 60) |
| 10 | CHEMICAL- LUBRICANTS | Lubricating Grease | Drop Point | ASTM D 2265 |
| 11 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 100°C | ASTM D7042 |
| 12 | CHEMICAL- LUBRICANTS | Lubricating Oil | Pour Point | ASTM D5949 |
| 13 | CHEMICAL- LUBRICANTS | Lubricating Oil | Additive elements Ca, | ASTM D 7751 |
| 14 | CHEMICAL- LUBRICANTS | Lubricating Oil | Additive Elements P | ASTM D 7751 |
| 15 | CHEMICAL- LUBRICANTS | Lubricating Oil | Additive Elements Zn | ASTM D7751 |
| 16 | CHEMICAL- LUBRICANTS | Lubricating Oil | Appearance | BPCL/SOP-09 Issue no.04 dt..01.11.2020 |
| 17 | CHEMICAL- LUBRICANTS | Lubricating Oil | Cloud Point , °C | ASTM D 2500 |
| 18 | CHEMICAL- LUBRICANTS | Lubricating Oil | Colour ASTM | ASTM D1500 |
| 19 | CHEMICAL- LUBRICANTS | Lubricating Oil | Colour ASTM | IS 1448 (Part 12) |
| 20 | CHEMICAL- LUBRICANTS | Lubricating Oil | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 21 | CHEMICAL- LUBRICANTS | Lubricating Oil | Crackle Test | BPCL/SOP-10 Issue no.04 dt..01.11.2020 |
| 22 | CHEMICAL- LUBRICANTS | Lubricating Oil | Cu Strip Corrosion for 3 hours at 100°C | ASTM D 130 |
| 23 | CHEMICAL- LUBRICANTS | Lubricating Oil | Cu Strip Corrosion for 3 hours at 100°C | IS 1448 (Part 15) |
| 24 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density 29.5°C | ASTM D7042 |

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| 25 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 15°C | ASTM D 1298 |
| 26 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 15°C | ASTM D 7042 |
| 27 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 15°C | IS 1448 (Part 16) |
| 28 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | ASTM D4052 |
| 29 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | ASTM D 1298 |
| 30 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | ASTM D 7042 |
| 31 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | IS 1448 (Part 16) |
| 32 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element - Aluminum | ASTM D 5185 |
| 33 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Barium | ASTM D 5185 |
| 34 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Iron | ASTM D 5185 |
| 35 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Lead | ASTM D 5185 |
| 36 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Magnesium | ASTM D 5185 |
| 37 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Molybdenum | ASTM D 5185 |
| 38 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Potassium | ASTM D 5185 |
| 39 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Sodium | ASTM D 5185 |
| 40 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Sulphur | ASTM D 5185 |
| 41 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Tin | ASTM D 5185 |
| 42 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Titanium | ASTM D 5185 |
| 43 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element- Vanadium | ASTM D 5185 |
| 44 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element-Boron | ASTM D 5185 |
| 45 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element-Calcium | ASTM D 5185 |
| 46 | CHEMICAL- LUBRICANTS | Lubricating Oil | Element-Chromium | ASTM D 5185 |
| 47 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements- Manganese | ASTM D 5185 |
| 48 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements- Nickel | ASTM D 5185 |
| 49 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements- Phosphorus | ASTM D 5185 |
| 50 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements- Silicon | ASTM D 5185 |
| 51 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements- Silver | ASTM D 5185 |
| 52 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements- ZInc | ASTM D 5185 |
| 53 | CHEMICAL- LUBRICANTS | Lubricating Oil | Elements-Copper | ASTM D 5185 |
| 54 | CHEMICAL- LUBRICANTS | Lubricating Oil | Emulsion Stability Test | IS 1448 (Part 98) |

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| 55 | CHEMICAL- LUBRICANTS | Lubricating Oil | Flash Point (COC) | ASTM D 92 |
| 56 | CHEMICAL- LUBRICANTS | Lubricating Oil | Flash Point (COC) | IS 1448( Part 69) |
| 57 | CHEMICAL- LUBRICANTS | Lubricating Oil | Flash Point (PMCC) | ASTM D93 |
| 58 | CHEMICAL- LUBRICANTS | Lubricating Oil | Flash Point (PMCC) | IS 1448 (Part 21) |
| 59 | CHEMICAL- LUBRICANTS | Lubricating Oil | Foaming Characteristics | ASTM D892 |
| 60 | CHEMICAL- LUBRICANTS | Lubricating Oil | Frothing Test | IS 1448 (Part 99) |
| 61 | CHEMICAL- LUBRICANTS | Lubricating Oil | Insoluble (Pentane) | ASTM D893 |
| 62 | CHEMICAL- LUBRICANTS | Lubricating Oil | Insoluble (Toluene ) | ASTM D893 |
| 63 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 100°C | ASTM D445 |
| 64 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 100°C | ASTM D7042 |
| 65 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 100°C | IS 1448 (Part 25)/Sec1 |
| 66 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 37.8°C | ASTM D7042 |
| 67 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 40°C | ASTM D445 |
| 68 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 40°C | ASTM D7042 |
| 69 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 40°C | IS 1448 (Part 25)/Sec1 |
| 70 | CHEMICAL- LUBRICANTS | Lubricating Oil | Pour Point | ASTM D97 |
| 71 | CHEMICAL- LUBRICANTS | Lubricating Oil | Pour Point | IS 1448 (Part 10) sec-2 |
| 72 | CHEMICAL- LUBRICANTS | Lubricating Oil | Total Acid Number (TAN) | ASTM D664 |
| 73 | CHEMICAL- LUBRICANTS | Lubricating Oil | Total Base Number (TBN) | ASTM D:2896 |
| 74 | CHEMICAL- LUBRICANTS | Lubricating Oil | Total Base Number (TBN) | IS 1448 (Part 86) |
| 75 | CHEMICAL- LUBRICANTS | Lubricating Oil | UV absorbance extinction, Max | IS 7299 |
| 76 | CHEMICAL- LUBRICANTS | Lubricating Oil | Viscosity Index | ASTM D2270 |
| 77 | CHEMICAL- LUBRICANTS | Lubricating Oil | Water Content | ASTM D95 |
| 78 | CHEMICAL- LUBRICANTS | Lubricating Oil | Water Content | IS 1448 (Part 40) |
| 79 | CHEMICAL- LUBRICANTS | Lubricating Oil | Water content by Coulometric Karl Fischer Titration | ASTM D6304 |
| 80 | CHEMICAL- LUBRICANTS | Lubricating Oil | Water Separability | ASTM D 1401 |
| 81 | CHEMICAL- LUBRICANTS | Transformer Oil | Appearance | Visual SOP _09 issue No 4 dt.01.11.2020 |
| 82 | CHEMICAL- LUBRICANTS | Transformer Oil | Breakdown Voltage | IS: 6792 |
| 83 | CHEMICAL- LUBRICANTS | Transformer Oil | Density @ 20°C | IS 1448 (Part 16) |

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| 84 | CHEMICAL- LUBRICANTS | Transformer Oil | Dielectric Dissipation Factor (tan d) at 90°C | IS:16086 |
| 85 | CHEMICAL- LUBRICANTS | Transformer Oil | Flash Point (PMCC) | IS 1448 (Part 21) |
| 86 | CHEMICAL- LUBRICANTS | Transformer Oil | Interfacial Tension | ASTM : D 971 |
| 87 | CHEMICAL- LUBRICANTS | Transformer Oil | Kinematic Viscosity at 40°C, mm2/s | IS 1448 (Part 25) Sec1 |
| 88 | CHEMICAL- LUBRICANTS | Transformer Oil | PMCC Flash Point | ASTM D93 |
| 89 | CHEMICAL- LUBRICANTS | Transformer Oil | Pour Point | ASTM D 5949 |
| 90 | CHEMICAL- LUBRICANTS | Transformer Oil | pour point | IS:1448(Part:10) Sec-2 |
| 91 | CHEMICAL- LUBRICANTS | Transformer Oil | Total Sulphur Content | ASTM D 4294 |
| 92 | CHEMICAL- LUBRICANTS | Transformer Oil | Water Content | IES:60814 |
| 93 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Colour (Visual) | BPCL/SOP/11 Issue no.04 dt..01.11.2020 |
| 94 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D 1298 |
| 95 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Distillation (95 %v/v recovery) | IS 1448 (Part 18) |
| 96 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Appearance | BPCL/SOP/09 Issue no.04 dt..01.11.2020 |
| 97 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D7042 |
| 98 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cetane Index, (Calculated) | ASTM D4737 |
| 99 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cu Strip Corrosion for 3 hrs at 50°C | ASTM D130 |
| 100 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cu Strip Corrosion for 3 hrs at 50°C | IS 1448 (Part 15) |
| 101 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D 1298 |
| 102 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D4052 |
| 103 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | IS 1448 (Part 16) |
| 104 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Distillation (95 %v/v Recovery) | ASTM D 86 |

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| 105 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Distillation (95% v/v, Recovery) | ASTM D7345 |
| 106 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Distillation (95% v/v, Recovery) | IS 1448 ( Part 18) |
| 107 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Flash Point (Abel) | IP 170 |
| 108 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Flash Point (Abel) | IS 1448( Part 20) |
| 109 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Flash Point (Able) | ISO 13736 |
| 110 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity, at 40°C | ASTM D 445 |
| 111 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity, at 40°C | ASTM D 7042 |
| 112 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity, at 40°C | IS 1448 (Part 25)/Sec1 |
| 113 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Pour Point | ASTM D 97 |
| 114 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Pour Point | ASTM D5949 |
| 115 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Pour Point | IS 1448 (Part 10) Sec-2 |
| 116 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Sulphur, Total | ASTM D 5453 |
| 117 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Sulphur, Total | ISO 13032 |
| 118 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | water Content by coulometric Karl Fischer Titration | ASTM D6304 |
| 119 | CHEMICAL- PETROLEUM AND PRODUCTS | aviation turbine fuel | Density at 15°C | ASTM D4052 |
| 120 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel | Distillation (90% recovery) | ASTM D86 |
| 121 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel | Distillation (Residue) | ASTM D86 |
| 122 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Acidity, Total | ASTM D 3242 |
| 123 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Acidity, Total | IS 1448 (Part 113) |

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| 124 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Appearance | BPCL/SOP-09ssue no.04 dt..01.11.2020 |
| 125 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Aromatics | ASTM D1319 |
| 126 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Aromatics | IS 1448 ( Part-23) |
| 127 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Colour Saybolt | ASTM D 156 |
| 128 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Colour Saybolt | IS 1448 ( Part 14) |
| 129 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Cu Strip Corrosion for 2 hrs at 100°C | ASTM D130 |
| 130 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Cu Strip Corrosion for 2 hrs at 100°C | IS 1448 (Part 15) |
| 131 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Density at 15°C | ASTM D 1298 |
| 132 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Density at 15°C | IS 1448 (Part 16) |
| 133 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (10% recovery) | IS 1448 ( Part 18) |
| 134 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (10% recovery) | ASTM D86 |
| 135 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (50% recovery) | ASTM D86 |
| 136 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (50% Recovery) | IS 1448 (Part 18) |
| 137 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (90% Recovery) | IS 1448 (Part 18) |
| 138 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (FBP) | ASTM D86 |
| 139 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (FBP) | IS 1448 (Part 18) |
| 140 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation turbine fuel (ATF) | Distillation (IBP oC) | ASTM D86 |
| 141 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation (IBP) | IS 1448 ( Part 18) |
| 142 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Doctor Test | ASTM D 4952 |

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| 143 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Doctor Test | IS 1448 ( Part 19) |
| 144 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Electrical conductivity | ASTM D2624 |
| 145 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Electrical conductivity | ISO 6297 |
| 146 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Existent Gum | ASTM D381 |
| 147 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Existent Gum | IS 1448 ( Part 29) |
| 148 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Flash Point (Abel) | IP 170 |
| 149 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Flash Point (Abel) | IS 1448 (Part 20) |
| 150 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Flash Point (Abel) | ISO 13736 |
| 151 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Freezing Point | ASTM D2386 |
| 152 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Freezing Point | ASTM D5972 |
| 153 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Freezing Point | IS 1448 ( Part 11) |
| 154 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Freezing Point (Auto) | ASTM D5972 |
| 155 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Kinematic Viscosity at (-20)°C | ASTM D 445 |
| 156 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Kinematic Viscosity at (-20)°C | ASTM D7042 |
| 157 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Kinematic Viscosity at (-20)°C | IS 1448 (Part 25)/Sec1 |
| 158 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Naphthalene Content | ASTM D 1840 |
| 159 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Naphthalene content | IS 1448 (Part 118) |
| 160 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Silver Strip Corrosion classification, for 4 hrs at 50°C | Annx B of IS 1571 |
| 161 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Smoke point | ASTM D1322 |

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| 162 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Smoke point | IP 598 |
| 163 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Smoke point | IS 1448 (Part 31) |
| 164 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Smoke point | ISO 3014 |
| 165 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Specific Energy, MJ/Kg | ASTM D3338 |
| 166 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Sulphur, Total | ASTM D 4294 |
| 167 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Water reaction (Interface rating) (Separation rating) | ASTM D 1094 |
| 168 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Water reaction (Interface rating) (Separation rating) | IS 1448 (Part 42) |
| 169 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel(ATF) | Distillation (Residue) | IS 1448 (Part 18 ) |
| 170 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Acidity(as CH3COOH) | Annexure D of IS 15464 |
| 171 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Aldehyde content (as CH3CHO) | IS 15464 Annexure E |
| 172 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Alkalinity | Annexure D of IS 15464 |
| 173 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Appearance | BPCL/SOP-09,Issue no.04 dt..01.11.2020 |
| 174 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Colour Visual | BPCL/SOP-11,Issue no.04 dt..01.11.2020 : 2020 |
| 175 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Ethanol Content %by Volume at 15.6/15.6°C | Annexure B of IS 15464 |
| 176 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Miscibility with water | IS 15464 Annexure J of |
| 177 | CHEMICAL- PETROLEUM AND PRODUCTS | Ethanol | Relative Density/ Specific Gravity at 15.6/15.6°C | Annexure A of IS 15464 |
| 178 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Appearance | BPCL/SOP-09 Issue no.04 dt..01.11.2020 |
| 179 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Ash Content | ASTM D 482 |
| 180 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Calorific Value-Gross, kcal/kg, | IS 1448 (Part 7) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-7112 **Page No** 9 of 16

**Validity** 18/11/2022 to 17/11/2024 **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 |
|---|---|---|---|---|
| 181 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 182 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Density in Kg/m3 at 15 °C | ASTM D 1298 |
| 183 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Density in Kg/m3 at 15 °C | IS 1448 (Part 16) |
| 184 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Flash Point (PMCC) | ASTM D93 |
| 185 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Flash Point (PMCC) | IS 1448( Part 21) |
| 186 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Kinematic Viscosity at 50°C | IS 1448 (Part 25)/Sec1 |
| 187 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Pour Point | ASTM D 97 |
| 188 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Pour Point | IS 1448 (Part 10)Sec-2 |
| 189 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Sediments | ASTM D 473 |
| 190 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Sediments | IS 1448( Part 30) |
| 191 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Sulphur, Total | ASTM D 4294 |
| 192 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Water Content | ASTM D95 |
| 193 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oils | Water Content | IS 1448( Part 40) |
| 194 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash Diesel (HFHSD) | Distillation (Recovery at 370 oC) | ASTM D86 |
| 195 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash Diesel (HFHSD) | Distillation (Recovery at 370 oC) | IS 1448 (Part 18) |
| 196 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Appearance | BPCL/SOP-09 Issue no.04 dt..01.11.2020 |
| 197 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Cetane Index, (Calculated) | ASTM D-4737 |
| 198 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 199 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Cu Strip Corrosion for 3 hrs at 100°C | ASTM D 130 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

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|---|---|---|---|---|
| 200 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Cu Strip Corrosion for 3 hrs at 100°C | IS:1448 (P-15) |
| 201 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Density at 15°C | ASTM D 1298 |
| 202 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Density at 15°C | ASTM D4052 |
| 203 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Density at 15°C | IS 1448 (Part 16) |
| 204 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Distillation (Recovery at 350 oC) | ASTM D 86 |
| 205 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Distillation (Recovery at 350 oC) | IS 1448 ( Part 18) |
| 206 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Flash Point (PMCC) | ASTM D93 |
| 207 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Flash Point (PMCC) | IS 1448 (Part 21) |
| 208 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Kinematic Viscosity, at 40°C | ASTM D 445 |
| 209 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Kinematic Viscosity, at 40°C | ASTM D 7042 |
| 210 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Kinematic Viscosity, at 40°C | IS 1448 (Part 25)/Sec1 |
| 211 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Pour Point | ASTM D 97 |
| 212 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Pour Point | ASTM D5949 |
| 213 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Pour Point | IS 1448 (Part 10) Sec-2 |
| 214 | CHEMICAL- PETROLEUM AND PRODUCTS | High Flash High Speed Diesel Fuel | Sulphur, Total | ASTM D 4294 |
| 215 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Appearance | BPCL/SOP-09 Issue no.04 dt..01.11.2020 |
| 216 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Colour Saybolt | ASTM D 156 |
| 217 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Colour Saybolt | IS 1448 (Part 14) |
| 218 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-7112 **Page No** 11 of 16

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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 |
|---|---|---|---|---|
| 219 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Cu Strip Corrosion for 3 hrs at 100°C | ASTM D 130 |
| 220 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Cu Strip Corrosion for 3 hrs at 100°C | IS 1448 (Part 15) |
| 221 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Density at 15°C | ASTM D 1298 |
| 222 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Density at 15°C | ASTM D4052 |
| 223 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Density at 15°C | IS 1448 (Part 16) |
| 224 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Distillation (% recovered below 200oC) | IS 1448 ( Part 18) |
| 225 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Distillation (FBP) | ASTM D 86 |
| 226 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Distillation (FBP) | IS 1448 ( Part 18) |
| 227 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Distillation (% recovered below 200oC) | ASTM D 86 |
| 228 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Flash Point (Abel) | IP 170 |
| 229 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Flash Point (Abel) | IS 1448( Part 20) |
| 230 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Flash Point (Abel) | ISO 13736 |
| 231 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Smoke point | ASTM D1322 |
| 232 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Smoke point | IP 598 |
| 233 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Smoke point | IS 1448 (Part 31) |
| 234 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Smoke point | ISO 3014 |
| 235 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Sulphur, Total | ASTM D 4294 |
| 236 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Appearance | BPCL/SOP-09, Issue no.04 dt..01.11.2020 |
| 237 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Ash Content % wt | ISO 6245 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

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**Validity** 18/11/2022 to 17/11/2024 **Last Amended on** -

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|---|---|---|---|---|
| 238 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Cetane Index, (Calculated) | ISO 4264 |
| 239 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Cloud Point | ISO 3015 |
| 240 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Density at 15°C | ISO 3675 |
| 241 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Flash Point (PMCC) | ISO 2719 |
| 242 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Kinematic Viscosity, at 40°C | ISO 3104 |
| 243 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Pour Point | ISO 3015 |
| 244 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Sulphur, Total | ASTM D 4294 |
| 245 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (DMA) | Total Acid Number (TAN) mg KOH/gm, | ASTM D 664 |
| 246 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Ash Content % wt | ISO 6245 |
| 247 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Density at 15°C | ISO 3675 |
| 248 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Flash Point (PMCC) | ISO 2719 |
| 249 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Kinematic Viscosity at 50°C | ISO 3104 |
| 250 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Pour Point | ISO 3016 |
| 251 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Sulphur, Total | ASTM D 4294 |
| 252 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Total Acid Number (TAN) mg KOH/gm, | ASTM D 664 |
| 253 | CHEMICAL- PETROLEUM AND PRODUCTS | Marine Fuels (RMG)180/380 | Water Content | ISO 3733 |
| 254 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Density at 15°C | ASTM D 1298 |
| 255 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Density at 15°C | IS 1448 (Part 16) |
| 256 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Density at 15°C | ASTM D4052 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|
| 257 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Appearance | BPCL/SOP-09,Issue no.04 dt..01.11.2020 |
| 258 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Aromatics contents | IS 1448 (Part 23) |
| 259 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 260 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Cu Strip Corrosion for 3 hrs at 50°C | IS 1448 (Part 15) |
| 261 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 100 oC) | ASTM D86 |
| 262 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 100 oC) | IS 1448 ( Part 18) |
| 263 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 150 oC) | ASTM D86 |
| 264 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 150 oC) | IS 1448 (Part 18) |
| 265 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 70 oC) | ASTM D86 |
| 266 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 70 oC) | IS 1448 (Part18) |
| 267 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (FBP) | ASTM D86 |
| 268 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (FBP) | IS 1448 (Part 18) |
| 269 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (Residue) | ASTM D86 |
| 270 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (Residue) | IS 1448 (Part 18) |
| 271 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Ethanol Content | IS 2796 |
| 272 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Ethanol Content | IS 2796 |
| 273 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Gum Content (Solvent washed) | ASTM D381 |
| 274 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Gum Content (Solvent Washed) | IS 1448 (Part 29) |
| 275 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | olefins Content | IS 1448 (Part23) |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-7112 **Page No** 14 of 16

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|---|---|---|---|---|
| 276 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Research Octane Number (RON) | ASTM D2699 |
| 277 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Research Octane Number (RON) | IS 1448 : P-27 |
| 278 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Sulphur, Total | ASTM D 5453 |
| 279 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Sulphur, Total | ISO 13032 |
| 280 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Refractive index @20°C | ISO 22241(Annex C) |
| 281 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Biuret Content | ISO 22241-2 (Annex E) |
| 282 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Aldehyde Content(mg/kg) | ISO 22241-2 (Annex F) |
| 283 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Alkalinity as NH3 %(m/m) | ISO 22241-2 (annex D) |
| 284 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Density at 20°C | ISO 12185 |
| 285 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Insoluble Matter | ISO 22241-2(Annex G) |
| 286 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | Phosphate | ISO 22241-2 (Annex H) |
| 287 | CHEMICAL- PETROLEUM AND PRODUCTS | NOx reduction agent AUS 32 (DEF, AdBlue ) | urea content | ISO 22241-2 (annex C) |

# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

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|---|---|---|---|---|
| Mobile Facility | | | | |
| 1 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 100°C | ASTM D7042 |
| 2 | CHEMICAL- LUBRICANTS | Lubricating Oil | Appearance | BPCL/SOP-09 Issue no.04 dt..01.11.2020 |
| 3 | CHEMICAL- LUBRICANTS | Lubricating Oil | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 4 | CHEMICAL- LUBRICANTS | Lubricating Oil | Crackle Test | BPCL/SOP-10 Issue no.04 dt..01.11.2020 |
| 5 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density 29.5°C | ASTM D7042 |
| 6 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 15°C | ASTM D 1298 |
| 7 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 15°C | ASTM D 7042 |
| 8 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 15°C | IS 1448 (Part 16) |
| 9 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | ASTM D 1298 |
| 10 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | ASTM D 7042 |
| 11 | CHEMICAL- LUBRICANTS | Lubricating Oil | Density at 29.5°C | IS 1448 (Part 16) |
| 12 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 100°C | ASTM D7042 |
| 13 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 40°C | ASTM D7042 |
| 14 | CHEMICAL- LUBRICANTS | Lubricating Oil | Kinematic Viscosity at 40°C | IS 1448 (Part 25)/Sec1 |
| 15 | CHEMICAL- LUBRICANTS | Lubricating Oil | Total Acid Number (TAN) | ASTM D664 |
| 16 | CHEMICAL- LUBRICANTS | Lubricating Oil | Total Base Number (TBN) | ASTM D:2896 |
| 17 | CHEMICAL- LUBRICANTS | Lubricating Oil | Total Base Number (TBN) | IS 1448 (Part 86) |
| 18 | CHEMICAL- LUBRICANTS | Lubricating Oil | Viscosity Index | ASTM D2270 |
| 19 | CHEMICAL- LUBRICANTS | Lubricating Oil | Water content by Coulometric Karl Fischer Titration | ASTM D6304 |
| 20 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Colour (Visual) | BPCL/SOP/11 Issue no.04 dt..01.11.2020 |
| 21 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D 1298 |
| 22 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Distillation (95 %v/v recovery) | IS 1448 (Part 18) |
| 23 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Appearance | BPCL/SOP/09 Issue no.04 dt..01.11.2020 |
| 24 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D7042 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** BHARAT PETROLEUM CORPORATION LIMITED, QA LABORATORY, SEWREE 'A' INSTALLATION, SEWREE FORT ROAD, SEWREE (EAST), MUMBAI, MAHARASHTRA, INDIA

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|---|---|---|---|---|
| 25 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cetane Index, (Calculated) | ASTM D4737 |
| 26 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | ASTM D 1298 |
| 27 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Density at 15°C | IS 1448 (Part 16) |
| 28 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Distillation (95% v/v, Recovery) | IS 1448 ( Part 18) |
| 29 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Flash Point (Abel) | IS 1448( Part 20) |
| 30 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity, at 40°C | ASTM D 7042 |
| 31 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity, at 40°C | IS 1448 (Part 25)/Sec1 |
| 32 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | water Content by coulometric Karl Fischer Titration | ASTM D6304 |
| 33 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Colour(Visual) | BPCL/SOP/11, Issue no.04 dt..01.11.2020 |
| 34 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Appearance | BPCL/SOP/09 ,Issue no.04 dt..01.11.2020 |
| 35 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Density at 15°C | ASTM D 1298 |
| 36 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Density at 15°C | IS 1448 (Part 16) |
| 37 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Appearance | BPCL/SOP-09,Issue no.04 dt..01.11.2020 |
| 38 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Colour Visual | BPCL/SOP-11 Issue no.04 dt..01.11.2020 |
| 39 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 100 oC) | IS 1448 ( Part 18) |
| 40 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 150 oC) | IS 1448 (Part 18) |
| 41 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (% v/v evaporated at 70 oC) | IS 1448 (Part18) |
| 42 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (FBP) | IS 1448 (Part 18) |
| 43 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation (Residue) | IS 1448 (Part 18) |