# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** QUALITY CONTROL LABORATORY, NUMALIGARH REFINERY LIMITED, PANKAGRAN, GOLAGHAT, ASSAM, INDIA

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

**Certificate Number** TC-7044 **Page No** 1 of 5

**Validity** 01/04/2022 to 31/03/2024 **Last Amended on** 14/03/2023

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF | Appearance | SOP ID NO: NRL/QC/SOP/48 (Issue Date: 15.09.2022) |
| 2 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF | Mercaptan Sulphur | IS 1448 (Part 109) |
| 3 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Appearance | SOP ID NO: NRL/QC/SOP/48 (Issue Date: 15.09.2022) |
| 4 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Water Content | ISO 12937 |
| 5 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Acidity Total | IS 1448 (P:2) |
| 6 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Aromatics | IS 1448 (P:23) |
| 7 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Conductivity | IS 1448 (P:148) |
| 8 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Copper Corrosion | IS 1448 (P:15) |
| 9 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Density by Hydrometer | IS 1448 (P:16) |
| 10 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Distillation | IS 1448 (P:18) |
| 11 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Existent Gum | IS 1448 (P:29) |
| 12 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Flash Point Abel | IS 1448(P:20) |
| 13 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Freezing Point | ASTM D 7153 |
| 14 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Jet Fuel Thermal Oxidation Tester JFTOT (Differential Pressure) | IS 1448 (P:97) |
| 15 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Jet Fuel Thermal Oxidation Tester JFTOT (Tube Rating) | IS 1448 (P:97) |
| 16 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Kinematic Viscosity | IS 1448 (P:25) |
| 17 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Lubricity | ASTM D:5001 |
| 18 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Micro Separometer Rating | IS 1448 (P:142) |

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| 19 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Naphthalene Content | IS:1448 (P:118) |
| 20 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Particle Contamination | ASTMD 5452 |
| 21 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Saybolt Colour | IS 1448 (P:14) |
| 22 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Smoke Point | IS 1448 (P:31) |
| 23 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Total Aromatics | ASTM D 6379 |
| 24 | CHEMICAL- PETROLEUM AND PRODUCTS | Aviation Turbine Fuel (ATF) | Water Reaction | 1448 (P:42) |
| 25 | CHEMICAL- PETROLEUM AND PRODUCTS | Crude Oil | Density by Hydrometer | IS 1448 (P:16) |
| 26 | CHEMICAL- PETROLEUM AND PRODUCTS | Crude Oil | Water Content | IS 1448 (P:40) |
| 27 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Acidity Inorganic | IS 1448 (P:2) |
| 28 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Acidity Total | IS 1448 (P:2) |
| 29 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Ash Content | IS 1448 (P:4) |
| 30 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Cetane Number | IS 1448 (P:30) |
| 31 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Copper Corrosion | IS 1448 (P:15) |
| 32 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Density | IS 1448 (P:16) |
| 33 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Density by hydrometer | IS 1448 (P:16) |
| 34 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Distillation | IS 1448 (P:18) |
| 35 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Flash Point Abel | IS 1448 (P:20) |
| 36 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Kinematic Viscosity | IS:1448 (P:25) |
| 37 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Lubricity | IS 1448 (P:154) |

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| 38 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Oxygen Stability | IS 1448 (P:154) |
| 39 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Poly Aromatic Hydrocarbons (PAH) | IP 391 |
| 40 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Pour Point | IS 1448 (P:10) |
| 41 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Total Contamination | IP 440 |
| 42 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Total Sulphur | ASTM D 5453 |
| 43 | CHEMICAL- PETROLEUM AND PRODUCTS | High Speed Diesel (HSD) | Water Content | ASTM D 6304 |
| 44 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Appearance | SOP ID NO: NRL/QC/SOP/48 (Issue Date: 15.09.2022) |
| 45 | CHEMICAL- PETROLEUM AND PRODUCTS | Liquified Petroleum Gases (LPG) | Copper Corrosion | IS 1448 (P152) |
| 46 | CHEMICAL- PETROLEUM AND PRODUCTS | Liquified Petroleum Gases (LPG) | Vapour Pressure | IS 1448 (P:71) |
| 47 | CHEMICAL- PETROLEUM AND PRODUCTS | Liquified Petroleum Gases (LPG) | Volatility | IS 1448 (P:72) |
| 48 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG | Caustic Test | IS 4576 (Table 1 Note 11) |
| 49 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG | Density @ 15°C | IP 432 |
| 50 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG | Free Water Content | IS 4576 (Table 1 Note 9) |
| 51 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG | Hydrogen Sulfide | IS 4576 (Table 1 Note 9) |
| 52 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG | Total Volatile Sulphur | ASTM D6667 |
| 53 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Appearance | SOP ID NO:NRL/QC/SOP/48 (Issue Date: 15.09.2022) |
| 54 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Colour | SOP ID NO:NRL/QC/SOP/45 (Issue Date:12.09.2022) |
| 55 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Ethanol Content | ASTM D4815 |
| 56 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Motor Octane Number (MON) | IS 1448 (Part 26) |

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| 57 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Oxygen Content | ASTM D4815 |
| 58 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Aromatics | IS 1448 (P:23) |
| 59 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Benzene | ASTM D 3606 |
| 60 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Copper Corrosion | IS 1448 (P:15) |
| 61 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Density by Hydrometer | IS 1448 (P:16) |
| 62 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Distillation | IS 1448 (P:18) |
| 63 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Existant Gum | IS 1448 (P:29) |
| 64 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Oxidation Stability | IS 1448 (P:28) |
| 65 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Reid Vapour Pressure | IS 1448 (P39) |
| 66 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Research Octane Number (RON) | IS 1448 (P:27) |
| 67 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Total Sulphur | ASTM D 5453 |
| 68 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Spirit (MS) | Water Tolerance | IS 2796 Annex B |
| 69 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Aromatics | IS 1448 (P:23) |
| 70 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Calorific value | IS 1448 (P:7) |
| 71 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Carbon / Hydrogen (C/H) Ratio | IS 1448 (P:7) |
| 72 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Density by Hydrometer | IS 1448 (P:16) |
| 73 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Distillation | IS 1448 (P:18) |
| 74 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Existant Gum | IS 1448 (P:29) |
| 75 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Reid Vapour Pressure (RVP) | IS 1448 (P:39) |

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| 76 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Total Sulphur | ASTM D 5453 |
| 77 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Burning Quality | IS 1448 (P:5) |
| 78 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Copper Corrosion | IS 1448 (P:15) |
| 79 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Density by Hydrometer | IS 1448 (P:16) |
| 80 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Distillation | IS 1448 (P:18) |
| 81 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Flash Point Abel | IS 1448 (P:20) |
| 82 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Saybolt Colour | IS 1448 (P:14) |
| 83 | CHEMICAL- PETROLEUM AND PRODUCTS | Superior kerosene oil (SKO) | Smoke Point | IS 1448 (P:31) |
| 84 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | Biological Oxygen Demand | IS 3025 (P:17) |
| 85 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | Chemical Oxygen Demand | IS 3025 (P:58) |
| 86 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | Oil & Grease | IS 3025 (P:43) |
| 87 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | pH | IS 3025 (P:11) |
| 88 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | Phenol Content | IS 3025 (P:43) |
| 89 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | Sulphide | IS 3025 (P:29) |
| 90 | CHEMICAL- POLLUTION & ENVIRONMENT | Industrial Effluent Water | Total Suspended Solid | IS 3025 (P:17) |