# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** QUALITY CONTROL LABORATORY- MANGALORE REFINERY AND PETROCHEMICALS LIMITED, KUTHETHOOR POST, MANGALORE, KARNATAKA, INDIA

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

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|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Oxygen Content | ASTM D6839 |
| 2 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Aniline Point | ASTM D611 |
| 3 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Aniline Point | IS 1448 (Part 3) |
| 4 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Aromatics | ASTM D1319 |
| 5 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | BOCLE | ASTM D5001 |
| 6 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Doctor Test | ASTM D4952 |
| 7 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Doctor test | IS 1448 (Part 19) |
| 8 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Existent Gum | ASTM D381 |
| 9 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Existent Gum | IS 1448 (Part 29) |
| 10 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Flash Point-TAG Method | ASTM D56 |
| 11 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Freezing Point (Manual) | ASTM D2386 |
| 12 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Freezing Point (Manual) | IS 1448 (Part 11) |
| 13 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Freezing Point-Auto | ASTM D7153 |
| 14 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Jet Fuel Thermal Oxidation Test-JFTOT | ASTM D3241 |
| 15 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Jet Fuel Thermal Oxidation Test-JFTOT | IS 1448 (Part 97) |
| 16 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Kinematic Viscosity | ASTM D445 |
| 17 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Kinematic Viscosity | ASTM D7042 |
| 18 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Kinematic Viscosity | IS 1448 (Part 25)/Section 1 |

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| 19 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Kinematic Viscosity | ISO 3104 |
| 20 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | MSEP Rating | ASTM D3948 |
| 21 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | MSEP Rating | IS 1448 (Part 142) |
| 22 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Naphthalenes | ASTM D1840 |
| 23 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Naphthalenes | IS 1448 (Part 118) |
| 24 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Particulate Contaminants | ASTM D5452 |
| 25 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Particulate Contaminants | IP 423 |
| 26 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Particulate count | IP 577 |
| 27 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Particulate Counts | IP 565 |
| 28 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Silver Corrosion | IS 1571-Annex B |
| 29 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Specific Energy | ASTM D3338M |
| 30 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Total Acidity | ASTM D3242 |
| 31 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Total Acidity | IS 1448 (Part 113) |
| 32 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Total Aromatics | ASTM D6379 |
| 33 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Total Sulphur-EDXRF | ASTM D4294 |
| 34 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Water Reaction | ASTM D1094 |
| 35 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1 | Water reaction | IS 1448 (Part 42) |
| 36 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Kerosene, Automotive Diesel fuel, Xylol | Flash Point--ABEL | IP 170 |
| 37 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Kerosene, Naphtha | Saybolt Colour | IS 1448 Part 14 |

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| 38 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Kerosene,Xylol, Automotive Diesel fuel | Flash Point-ABEL | IS 1448 (Part 20) |
| 39 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Motor Gasoline | Aromatics | IS 1448 (Part 23) |
| 40 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Naphtha,Kerosene | Saybolt Colour | ASTM D6045 |
| 41 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Naphtha,Motor Gasoline | Olefins | IS 1448 (Part 23) |
| 42 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Naphtha,Motor Gasoline | Sulphur Mercaptans (RSH) | IS 1448 (Part 109) |
| 43 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Naphtha,Motor gasoline,Automotive Diesel Fuel,Xylol,Fuel Oil,Kerosene | Density (Manual) | ASTM D1298 |
| 44 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Naphtha,Motor gasoline,Automotive Diesel Fuel,Xylol,Fuel Oil,Kerosene | Density (Manual) | IS 1448 (Part 16) |
| 45 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1, Naphtha,Motor Gasoline,Automotive Diesel Fuel,Xylol,Kerosene,Fuel Oil | Density (Auto) | ASTM D4052 |
| 46 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Automotive Diesel Fuel | Electrical Conductivity | ASTM D2624 |
| 47 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Automotive Diesel Fuel | Electrical Conductivity | IP 274 |
| 48 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Automotive Diesel Fuel | Electrical Conductivity | ISO 6297 |
| 49 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Automotive Diesel Fuel,Kerosene,Motor Gasoline | Copper Corrosion | ASTM D130 |
| 50 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Automotive Diesel Fuel,Kerosene,Motor Gasoline | Copper Corrosion | IS 1448 (Part 15) |
| 51 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Kerosene | Distillation | ASTM D86 |
| 52 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Kerosene | Smoke Point (Auto) | IP 598 |
| 53 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Kerosene | Smoke Point (Manual) | IS 1448 (Part 31) |
| 54 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Kerosene | Smoke Point(Auto) | ASTM D1322 |
| 55 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Kerosene, Motor Gasoline | Distillation | IS 1448 (Part 18) |
| 56 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Naphtha | Olefins | ASTM D1319 |

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| 57 | CHEMICAL- PETROLEUM AND PRODUCTS | ATF JET A-1,Naphtha,Motor Gasoline | Sulphur Mercaptans (RSH) | ASTM D3227 |
| 58 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Ash Content | ASTM D482 |
| 59 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Ash Content | IS 1448 (Part 4) |
| 60 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | ASTM Colour | ASTM D1500 |
| 61 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cetane Index (Calculation) | ASTM D4737 |
| 62 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cetane Number | ASTM D613 |
| 63 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Cetane Number | S 1448 (Part 9) |
| 64 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive diesel fuel | Cloud point | ASTM D5771 |
| 65 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Cloud Point | ASTM D7689 |
| 66 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Cloud point | IS 1448 (Part 10) Section 1 |
| 67 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cold Filter Plugging point (CFPP) | ASTM D6371 |
| 68 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Cold Filter Plugging point (CFPP) | IS 1448 (Part 110) |
| 69 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Distillation | ASTM D86 |
| 70 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Distillation | IS 1448 (Part 18) |
| 71 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity | ASTM D445 |
| 72 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity | ASTM D7042 |
| 73 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Kinematic Viscosity | ISO 3104 |
| 74 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Kinematic Viscosity | S 1448 (Part 25)/section1 |
| 75 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Lubricity | ASTM D6079 |

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| 76 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Lubricity | IS 1448 (Part 149) |
| 77 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Lubricity | ISO 12156-1 |
| 78 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive diesel fuel | Micro Carbon residue (MCR) | ASTM D4530 |
| 79 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Micro carbon residue (MCR) | ISO 10370 |
| 80 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel | Oxidation Stability | ASTM D2274 |
| 81 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Oxidation Stability | IS 1448 (Part 154) |
| 82 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Poly Aromatics Hydrocarbon-PAH | IP 391 |
| 83 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Total Aromatics Hydrocarbon | ASTM D6591 |
| 84 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Total Contamination | EN 12662 |
| 85 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Total Contamination | IP 440 |
| 86 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel | Water Content | ISO 12937 |
| 87 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel, Fuel oil | Pour Point | IS 1448 (Part 10) section 2 |
| 88 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel, Kerosene, Fuel oil | Acidity | ASTM D664 |
| 89 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel, Kerosene, Fuel oil | Acidity | ASTM D974 |
| 90 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel, Motor Gasoline, Kerosene, Xylol | Total Sulphur | ASTM D5453 |
| 91 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel, Motor Gasoline, Naphtha | Total Sulphur-EDXRF | ASTM D4294 |
| 92 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Flash Point-PMC | ASTM D93 A&B |
| 93 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Flash Point-PMC | IS 1448 (Part 21) |
| 94 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Pour Point | ASTM D5950 |

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| 95 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Pour Point | ASTM D7346 |
| 96 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Sediments-Thimble Extraction | ASTM D473 |
| 97 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel oil | Sediments-Thimble Extraction | IS 1448 (Part 30) |
| 98 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Water Content- Dean & Stark Distillation | ASTM D95 |
| 99 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Fuel Oil | Water Content- Dean & Stark Distillation | IS 1448 (Part 40) |
| 100 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Motor Gasoline | Total Sulphur | ASTM D7220 |
| 101 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Motor Gasoline | Total Sulphur-EDXRF | IS 1448 (Part 153) |
| 102 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Motor Gasoline | Total Sulphur-EDXRF | ISO 20847 |
| 103 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Motor Gasoline | Total Sulphur-UV Method | ISO 20846 |
| 104 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel,Naphtha,Fuel oil | Calorific Value | ASTM D240 |
| 105 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel fuel,Naphtha,Fuel Oil | Calorific value | IS 1448 (Part 6) |
| 106 | CHEMICAL- PETROLEUM AND PRODUCTS | Automotive Diesel Fuel,Naphtha,Fuel Oil | Calorific Value (Calculation) | IS 1448 (Part 7) |
| 107 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Absolute Viscosity @ 60°C | IS1206(Part 2) |
| 108 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Ductility @ 25°C | IS 1208 |
| 109 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Flash Point (COC) | IS 1448 P:69 |
| 110 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Kinemetic Viscosity @ 135°C | IS 1206 (Part 111) |
| 111 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Penetration @ 25°C, 100 g, 5 Sec | IS 1203 |
| 112 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Softening Point (R&B) | IS1205 |
| 113 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Solubility in Trichloroethylene | IS 1216 |

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| 114 | CHEMICAL- PETROLEUM AND PRODUCTS | Bitumen | Specific Gravity@27°C | IS:1202 |
| 115 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Acidity | IP 177 |
| 116 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Ash Content | ASTM D482 |
| 117 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Ash Content | IS 1448 (Part 4) |
| 118 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel oil | Ashphaltenes | IP 143 |
| 119 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Calculated Carbon Aromaticity Index- CCAI | ISO 8217 |
| 120 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel oil | Kinematic Viscosity | ASTM D445 |
| 121 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Kinematic Viscosity | IS 1448 (Part 25)/section1 |
| 122 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Micro Carbon residue-MCR | ASTM D4530 |
| 123 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Micro carbon Residue-MCR | ISO 10370 |
| 124 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Total Sediments | ASTM D4870 |
| 125 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Total Sediments (A&B Method) | IP 390 |
| 126 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel oIL | Total Sediments (Hot Filtration) | IP 375 (Part 1) |
| 127 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Total Sediments (Hot Filtration) | ISO 10307-1 |
| 128 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Total Sediments (Method A & B) | ISO 10307-2 |
| 129 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil | Total Sulphur-EDXRF | ASTM D4294 |
| 130 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil, Automotive Diesel Fuel | Heat of Combustion | ASTM D4868 |
| 131 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil, Automotive Diesel Fuel | Pour Point | ASTM D97 |
| 132 | CHEMICAL- PETROLEUM AND PRODUCTS | Fuel Oil,Automotive Diesel Fuel | Hydrogen Sulphide | ASTM D7621 |

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| 133 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene | Burning Quality(Char Value) | IS 1448 (Part 5) |
| 134 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene, ATF JET A-1,Naphtha | Saybolt Colour (Manual) | ASTM D156 |
| 135 | CHEMICAL- PETROLEUM AND PRODUCTS | Kerosene, Fuel oil, Automotive Diesel Fuel | Acidity | IS 1448 (Part 2) |
| 136 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | C2 Hydrocarbons, C3 Hydrocarbons, C4 Hydrocarbons, C5 Hydrocarbons & Heavier | ASTM D2163 |
| 137 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Caustic Test | IS 4576 |
| 138 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Copper Strip Corrosion | IS 1448 (P:152) |
| 139 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Density (calculation) | IP 432 |
| 140 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Free Water Content | IS 4576 |
| 141 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Hydrogen Sulphide | IS 1448 (P:73) |
| 142 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Sulphur, Total | ASTM D6667 |
| 143 | CHEMICAL- PETROLEUM AND PRODUCTS | LPG(Commercial Butane-Propane Mixture) | Vapor Pressure (Calculation) | IP 432 |
| 144 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Acid Wash Colour | ASTM D848 |
| 145 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Bromine Index | ASTM D5776 |
| 146 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Composition-Ethyl Benzene | UOP 744 |
| 147 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Composition-Non Aromatics | UOP 744 |
| 148 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Copper corrosion | ASTM D849 |
| 149 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Distillation-Dry Point | ASTM D850 |
| 150 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Nitrogen | ASTM D5762 |

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| 151 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Pt-Co Colour | ASTM D5386 |
| 152 | CHEMICAL- PETROLEUM AND PRODUCTS | Mixed Xylene (Xylol) | Pt-Co Colour | ASTM D6045 |
| 153 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Aromatics | ASTM D1319 |
| 154 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Aromatics | ASTM D6839 |
| 155 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Benzene | ASTM D3606 |
| 156 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Benzene | ASTM D6839 |
| 157 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Distillation | ASTM D86 |
| 158 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Existent Gum | ASTM D381 |
| 159 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Existent Gum | IS 1448 (Part 29) |
| 160 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Motor Octane Number-MON | ASTM D2700 |
| 161 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Motor Octane Number-MON | IS 1448 (Part 26) |
| 162 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Olefins | ASTM D6839 |
| 163 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Oxidation Stability (Induction Period) | ASTM D525 |
| 164 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Oxidation Stability (Induction Period) | IS 1448 (Part 28) |
| 165 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Oxygenates & Alcohols | ASTM D4815 |
| 166 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Potential gum | ASTM D873 |
| 167 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Research Octane Number-RON | ASTM D2699 |
| 168 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Research Octane Number-RON | IS 1448 (Part 27) |
| 169 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline | Total Vapour Pressure-DVPE | ASTM D5191 |

# SCOPE OF ACCREDITATION

**Laboratory Name :** QUALITY CONTROL LABORATORY- MANGALORE REFINERY AND PETROCHEMICALS LIMITED, KUTHETHOOR POST, MANGALORE, KARNATAKA, INDIA

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

**Certificate Number** TC-6767 **Page No** 10 of 11

**Validity** 31/03/2023 to 30/03/2025 **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 |
|---|---|---|---|---|
| 170 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline, ATF JET A-1,Naphtha | Olefins | ASTM D1319 |
| 171 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline, Automotive Diesel, Kerosene,Aviation Turbine Fuel | Sulfur, WDXRF | ASTM D2622 |
| 172 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline,Automotive Diesel Fuel | Total Sulfur | ASTM D7039 |
| 173 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline,Naphtha | Reid Vapour Pressure-RVP | ASTM D323 |
| 174 | CHEMICAL- PETROLEUM AND PRODUCTS | Motor Gasoline,Naphtha | Reid Vapour Pressure-RVP | IS 1448 (Part 39) |
| 175 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Aromatics | ASTM D6839 |
| 176 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Chloride | ASTM D4929 C |
| 177 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Distillation FBP | ASTM D86 |
| 178 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Olefins | ASTM D6733 |
| 179 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Olefins | ASTM D6839 |
| 180 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Total Paraffins | ASTM D6733 |
| 181 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha | Total Paraffins | ASTM D6839 |
| 182 | CHEMICAL- PETROLEUM AND PRODUCTS | Naphtha,Mixed Xylene (Xylol) | Non-Volatile matter in solvent-ROE | IS 1448 (Part 64) |
| 183 | CHEMICAL- PETROLEUM AND PRODUCTS | Poly Propylene | Flexural Modulus | ASTM D790 |
| 184 | CHEMICAL- PETROLEUM AND PRODUCTS | Poly Propylene | Izod Pendulum Impact Resistance Test | ASTM D256 |
| 185 | CHEMICAL- PETROLEUM AND PRODUCTS | Poly Propylene | Melt Flow Index/Rate (2.16 kg @ 230°C) | ASTM D1238 |
| 186 | CHEMICAL- PETROLEUM AND PRODUCTS | Poly Propylene | Melt Flow Index/Rate-MFI(2.16Kg@230°C) | ASTM D1238 |
| 187 | CHEMICAL- PETROLEUM AND PRODUCTS | Poly Propylene | Xylene Solubility | ASTM D5492 |
| 188 | CHEMICAL- PETROLEUM AND PRODUCTS | Poly Propylene | Yellowness Index | ASTM D6290 |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | QUALITY CONTROL LABORATORY- MANGALORE REFINERY AND PETROCHEMICALS LIMITED, KUTHETHOOR POST, MANGALORE, KARNATAKA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | TC-6767 | **Page No** | 11 of 11 |
| **Validity** | 31/03/2023 to 30/03/2025 | **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 |
|---|---|---|---|---|
| 189 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | Biological Oxygen Demand-BOD | IS 3025(Part 44) |
| 190 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | Chemical Oxygen Demand-COD | is 3025 (Part 58) |
| 191 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | Oil & Grease | IS 3025 (Part 39) |
| 192 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | pH | IS 3025 (Part 11) |
| 193 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | Phenols | IS 3025 (Part 43) |
| 194 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | Sulphide as (S) | IS 3025 (Part 29) |
| 195 | CHEMICAL- POLLUTION & ENVIRONMENT | Treated Effluent | Suspended Solids | IS 3025 (Part 17) |