# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** BIOMES, PLOT NO. 225, DISTRICT CENTRE, BHUBANESWAR, ODISHA, INDIA
**Accreditation Standard** ISO/IEC 17025:2017
**Certificate Number** TC-10049 **Page No** 1 of 9
**Validity** 02/11/2021 to 01/11/2023 **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 |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Noise Level (Excluding vibration) | Ambient Noise Leq (dB(A)) | IS 9989 |
| 2 | CHEMICAL- ORES & MINERALS | Iron Ores | % Fe (T) | IS:1493, Pt-1 |
| 3 | CHEMICAL- ORES & MINERALS | Iron Ores | % SiO2 | IS:1493, Pt-1 |
| 4 | CHEMICAL- ORES & MINERALS | Iron Ores | %Al2O3 | IS:1493, Pt-1 |
| 5 | CHEMICAL- ORES & MINERALS | Iron Ores | %P | IS:1493 Pt-1 |
| 6 | CHEMICAL- ORES & MINERALS | Managanese Ores | Iron | IS:1473 |
| 7 | CHEMICAL- ORES & MINERALS | Manganese Ores | Al2O3 | IS:1473 |
| 8 | CHEMICAL- ORES & MINERALS | Manganese ores | MgO | IS:1473 |
| 9 | CHEMICAL- ORES & MINERALS | Manganese Ores | Mn | IS:1473 |
| 10 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Ammonical Nitrogen | APHA 23rd Ed |
| 11 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Calcium | APHA 23ED |
| 12 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Chemical Oxygen Demand | APHA 23rd Ed |
| 13 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Chloride as Cl | APHA 23rd Ed |
| 14 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Color | IS:3025 (Pt-4) |
| 15 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Conductivity | APHA 23rd Ed |
| 16 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Fixed Solid | APHA 23rd Ed |
| 17 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Fluoride | APHA 23rd ED |
| 18 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Hexavalent Chromium | APHA 23rd Ed |

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|---|---|---|---|---|
| 19 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Iron | APHA 23rd ED |
| 20 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | M.Alkalinity | APHA 23rd ED |
| 21 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Magnesium | APHA 23rd Ed |
| 22 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Nitrate | APHA 23rd Ed |
| 23 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | P. Alkalinity | APHA 23rd Ed |
| 24 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | pH | APHA 23rd Ed |
| 25 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Phosphate | APHA 23rd Ed |
| 26 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Sulphate | APHA 23rd Ed |
| 27 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | TDS | APHA 23rd Ed |
| 28 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Temperature | APHA 23rd Ed |
| 29 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Total Alkalinity | APHA 23rd ED |
| 30 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Total Chromium | APHA 23rd Ed |
| 31 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Total Hardness | APHA 23rd Ed |
| 32 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Total Kjeldal Nitrogen | APHA 23rd Ed |
| 33 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Total Solid | APHA 23rd Ed |
| 34 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Total Suspended Solid | APHA 23rd Ed |
| 35 | CHEMICAL- POLLUTION & ENVIRONMENT | Effluent Water | Volatile Solid | APHA 23rd Ed |
| 36 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Ammonical Nitrogen | APHA 23rd Ed |
| 37 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Chemical Oxygen Demand | APHA 23rd Ed |

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|---|---|---|---|---|
| 38 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Colour | IS 3025: (Part4)1983 |
| 39 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Conductivity | APHA 23rd ED |
| 40 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Fixed Solid | APHA 23rd Ed |
| 41 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Fluoride | APHA 23rd Ed |
| 42 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Hexavalent Chromium | APHA 23rd Ed |
| 43 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Iron | APHA 23rd Ed |
| 44 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Nitrate | APHA 23rd Ed |
| 45 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | pH | APHA 23rd Ed |
| 46 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Phosphhate | APHA 23rd ED |
| 47 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Sulphate | APHA 23rd Ed |
| 48 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Temperature | APHA 23rd Ed |
| 49 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Total Chromium | APHA 23rd Ed |
| 50 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Total Dissolved Solid | APHA 23rd Ed |
| 51 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Total Kjedal Nitrogen | APHA 23rd Ed |
| 52 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Total Solid | APHA 23rd Ed |
| 53 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Total Suspended Soild | APHA 23rd Ed |
| 54 | CHEMICAL- POLLUTION & ENVIRONMENT | Sewage Water | Volatile Solid | APHA 23rd Ed |
| 55 | CHEMICAL- WATER | Drinking Water | Calcium | APHA 23rd ED |
| 56 | CHEMICAL- WATER | Drinking Water | Chloride | APHA 23rd ED |
| 57 | CHEMICAL- WATER | Drinking Water | Colour | IS 3025 Part-4 |

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|---|---|---|---|---|
| 58 | CHEMICAL- WATER | Drinking Water | Conductivity | APHA 23rd ED |
| 59 | CHEMICAL- WATER | Drinking Water | Fluoride | APHA 23rd ED |
| 60 | CHEMICAL- WATER | Drinking Water | Hexavalent Chromium | APHA 23rd ED |
| 61 | CHEMICAL- WATER | Drinking Water | Iron | APHA 23rd ED |
| 62 | CHEMICAL- WATER | Drinking Water | M. Alkalinity | APHA 23rd ED |
| 63 | CHEMICAL- WATER | Drinking Water | Magnesium | APHA 23rd ED |
| 64 | CHEMICAL- WATER | Drinking Water | Nitrate | APHA 23rd ED |
| 65 | CHEMICAL- WATER | Drinking Water | P.Alkalinity | APHA 23rd ED |
| 66 | CHEMICAL- WATER | Drinking Water | pH | APHA 23rd ED |
| 67 | CHEMICAL- WATER | Drinking Water | Potassium | APHA 23rd ED |
| 68 | CHEMICAL- WATER | Drinking Water | Sodium | APHA 23rd ED |
| 69 | CHEMICAL- WATER | Drinking Water | Sulphate | APHA 23rd ED |
| 70 | CHEMICAL- WATER | Drinking Water | TDS | APHA 23rd ED |
| 71 | CHEMICAL- WATER | Drinking Water | Temperature | APHA 23rd ED |
| 72 | CHEMICAL- WATER | Drinking Water | Total Alkalinity | APHA 23rd ED |
| 73 | CHEMICAL- WATER | Drinking Water | Total Chromium | APHA 23rd ED |
| 74 | CHEMICAL- WATER | Drinking Water | Total Hardness | APHA 23rd ED |
| 75 | CHEMICAL- WATER | Drinking Water | Total Solid | APHA 23rd ED |
| 76 | CHEMICAL- WATER | Drinking Water | TSS | APHA 23rd ED |
| 77 | CHEMICAL- WATER | Drinking Water | Turbidity | APHA 23rd ED |
| 78 | CHEMICAL- WATER | Ground Water | Calcium | APHA 23rd ED |
| 79 | CHEMICAL- WATER | Ground Water | Chloride | APHA 23rd ED |
| 80 | CHEMICAL- WATER | Ground water | Colour | IS 3025 Pt-4 |
| 81 | CHEMICAL- WATER | Ground Water | Fluoride | APHA 23rd ED |
| 82 | CHEMICAL- WATER | Ground Water | Hexavalent Chromium | APHA 23rd ED |
| 83 | CHEMICAL- WATER | Ground Water | Iron | APHA 23rd ED |
| 84 | CHEMICAL- WATER | Ground Water | Magnesium | APHA 23rd ED |
| 85 | CHEMICAL- WATER | Ground Water | M-Alkalinity | APHA 23rd ED |
| 86 | CHEMICAL- WATER | Ground Water | Nitrate | APHA 23rd ED |
| 87 | CHEMICAL- WATER | Ground Water | P-Alkalinity | APHA 23rd ED |

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|---|---|---|---|---|
| 88 | CHEMICAL- WATER | Ground Water | pH | APHA 23rd ED |
| 89 | CHEMICAL- WATER | Ground Water | Potassium | APHA 23rd ED |
| 90 | CHEMICAL- WATER | Ground Water | Sodium | APHA 23rd ED |
| 91 | CHEMICAL- WATER | Ground Water | Sulphate | APHA 23rd ED |
| 92 | CHEMICAL- WATER | Ground Water | TDS | APHA 23rd ED |
| 93 | CHEMICAL- WATER | Ground Water | Temperature | APHA 23rd ED |
| 94 | CHEMICAL- WATER | Ground Water | Total Alkalinity | APHA 23rd ED |
| 95 | CHEMICAL- WATER | Ground Water | Total Chromium | APHA 23rd ED |
| 96 | CHEMICAL- WATER | Ground Water | Total Hardness | APHA 23rd ED |
| 97 | CHEMICAL- WATER | Ground Water | Total Solid | APHA 23rd ED |
| 98 | CHEMICAL- WATER | Ground Water | TSS | APHA 23rd ED |
| 99 | CHEMICAL- WATER | Ground Water | Turbidity | APHA 23rd ED |
| 100 | CHEMICAL- WATER | Industrial Water | Ammonical Nitrogen | APHA 23rd ED |
| 101 | CHEMICAL- WATER | Industrial Water | Calcium | APHA 23rd ED |
| 102 | CHEMICAL- WATER | Industrial Water | Chloride | APHA 23rd ED |
| 103 | CHEMICAL- WATER | Industrial Water | COD | APHA 23 rd ED |
| 104 | CHEMICAL- WATER | Industrial Water | Color | IS:3025 (Pt-4) |
| 105 | CHEMICAL- WATER | Industrial Water | Conductivity | APHA 23rd Ed |
| 106 | CHEMICAL- WATER | Industrial Water | Fixed Solid | APHA 23rd Ed |
| 107 | CHEMICAL- WATER | Industrial Water | Fluoride | APHA 23rd ED |
| 108 | CHEMICAL- WATER | Industrial Water | Hexavalent Chromium | APHA 23rd ED |
| 109 | CHEMICAL- WATER | Industrial Water | Iron | APHA 23rd ED |
| 110 | CHEMICAL- WATER | Industrial Water | Magnesium | APHA 23rd ED |
| 111 | CHEMICAL- WATER | Industrial Water | M-Alkalinity | APHA 23rd ED |
| 112 | CHEMICAL- WATER | Industrial Water | Nitrate | APHA 23rd ED |
| 113 | CHEMICAL- WATER | Industrial Water | P-Alkalinity | APHA 23rd ED |
| 114 | CHEMICAL- WATER | Industrial Water | pH | APHA 23rd Ed |
| 115 | CHEMICAL- WATER | Industrial Water | Phosphate | APHA 23rd ED |
| 116 | CHEMICAL- WATER | Industrial Water | Potassium | APHA 23rd ED |
| 117 | CHEMICAL- WATER | Industrial Water | Sodium | APHA 23rd ED |

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|---|---|---|---|---|
| 118 | CHEMICAL- WATER | Industrial Water | Sulphate | APHA 23rd ED |
| 119 | CHEMICAL- WATER | Industrial Water | TDS | APHA 23rd Ed |
| 120 | CHEMICAL- WATER | Industrial Water | Temperature | APHA 23rd Ed |
| 121 | CHEMICAL- WATER | Industrial Water | Total Alkalinity | APHA 23 rd ED |
| 122 | CHEMICAL- WATER | Industrial Water | Total Chromium | APHA 23rd ED |
| 123 | CHEMICAL- WATER | Industrial Water | Total Hardness | APHA 23rd ED |
| 124 | CHEMICAL- WATER | Industrial Water | Total Kjeldal Nitrogen | APHA 23rd ED |
| 125 | CHEMICAL- WATER | Industrial Water | Total Solid | APHA 23rd Ed |
| 126 | CHEMICAL- WATER | Industrial Water | TSS | APHA 23rd Ed |
| 127 | CHEMICAL- WATER | Industrial Water | Volatile Solid | APHA 23rd ED |
| 128 | CHEMICAL- WATER | Surface Water | Calcium | APHA 23rd ED |
| 129 | CHEMICAL- WATER | Surface Water | Chloride | APHA 23rd ED |
| 130 | CHEMICAL- WATER | Surface Water | COD | APHA 23rd ED |
| 131 | CHEMICAL- WATER | Surface Water | Colour | IS 3025 Pt-4 |
| 132 | CHEMICAL- WATER | Surface Water | Conductivity | APHA 23rd ED |
| 133 | CHEMICAL- WATER | Surface Water | Fluoride | APHA 23rd ED |
| 134 | CHEMICAL- WATER | Surface Water | Hexavalent Chromium | APHA 23rd ED |
| 135 | CHEMICAL- WATER | Surface Water | Iron | APHA 23rd ED |
| 136 | CHEMICAL- WATER | Surface Water | Magnesium | APHA 23rd ED |
| 137 | CHEMICAL- WATER | Surface Water | M-Alkalinity | APHA 23rd ED |
| 138 | CHEMICAL- WATER | Surface Water | Nitrate | APHA 23rd ED |
| 139 | CHEMICAL- WATER | Surface Water | P-Alkalinity | APHA 23rd ED |
| 140 | CHEMICAL- WATER | Surface Water | pH | APHA 23rd ED |
| 141 | CHEMICAL- WATER | Surface Water | Potassium | APHA 23rd ED |
| 142 | CHEMICAL- WATER | Surface Water | Sodium | APHA 23 rd ED |
| 143 | CHEMICAL- WATER | Surface Water | Sulphate | APHA 23rd ED |
| 144 | CHEMICAL- WATER | Surface Water | TDS | APHA 23rd ED |
| 145 | CHEMICAL- WATER | Surface Water | Temperature | APHA 23rd ED |
| 146 | CHEMICAL- WATER | Surface Water | Total Alkalinity | APHA 23rd ED |
| 147 | CHEMICAL- WATER | Surface Water | Total Chromium | APHA 23rd ED |

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|---|---|---|---|---|
| 148 | CHEMICAL- WATER | Surface Water | Total Hardness | APHA 23rd ED |
| 149 | CHEMICAL- WATER | Surface Water | TSS | APHA 23rd ED |
| 150 | CHEMICAL- WATER | Surface Water | Turbidity | APHA 23rd ED |
| 151 | CHEMICAL- WATER | Water for construction purpose | Ammonical Nitrogen | APHA 23rd Ed |
| 152 | CHEMICAL- WATER | Water for construction purpose | Calcium | APHA 23rd Ed |
| 153 | CHEMICAL- WATER | Water for construction purpose | Chemical Oxygen Demand | APHA 23rd Ed |
| 154 | CHEMICAL- WATER | Water for construction purpose | Chloride as Cl | APHA 23rd Ed |
| 155 | CHEMICAL- WATER | Water for construction purpose | Color | IS: 3025 (Pt-4) |
| 156 | CHEMICAL- WATER | Water for construction purpose | Conductivity | APHA 23rd Ed |
| 157 | CHEMICAL- WATER | Water for construction purpose | Fluoride | APHA 23rd Ed |
| 158 | CHEMICAL- WATER | Water for construction purpose | Iron | APHA 23rd Ed |
| 159 | CHEMICAL- WATER | Water for construction purpose | M. Alkalinity | APHA 23rd Ed |
| 160 | CHEMICAL- WATER | Water for construction purpose | Magnesium | APHA 23rd Ed |
| 161 | CHEMICAL- WATER | Water for construction purpose | Nitrate | APHA 23rd Ed |
| 162 | CHEMICAL- WATER | Water for construction purpose | P. Alkalinity | APHA 23rd Ed |
| 163 | CHEMICAL- WATER | Water for construction purpose | pH | APHA 23rd Ed |
| 164 | CHEMICAL- WATER | Water for construction purpose | Potassium | APHA 23rd Ed |
| 165 | CHEMICAL- WATER | Water for construction purpose | Sodium | APHA 23rd Ed |
| 166 | CHEMICAL- WATER | Water for construction purpose | Sulphate | APHA 23rd Ed |
| 167 | CHEMICAL- WATER | Water for construction purpose | TDS | APHA 23rd Ed |
| 168 | CHEMICAL- WATER | Water for construction purpose | Temperature | APHA 23rd Ed |
| 169 | CHEMICAL- WATER | Water for construction purpose | Total Alkalinity | APHA 23rd Ed |
| 170 | CHEMICAL- WATER | Water for construction purpose | Total Chromium | APHA 23rd Ed |
| 171 | CHEMICAL- WATER | Water for construction purpose | Total Hardness | APHA 23rd Ed |
| 172 | CHEMICAL- WATER | Water for construction purpose | Total Kjeldal Nitrogen | APHA 23rd Ed |
| 173 | CHEMICAL- WATER | Water for construction purpose | TS | APHA 23rd Ed |
| 174 | CHEMICAL- WATER | Water for construction purpose | TSS | APHA 23rd Ed |
| 175 | CHEMICAL- WATER | Water for construction purpose | Turbidity | APHA 23rd Ed |

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|---|---|---|---|---|
| Site Facility | | | | |
| 1 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | AMMONIA | IS:5182, Pt-25 |
| 2 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Nitrogen Dioxide | IS:5182, Pt-6 |
| 3 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Ozone | IS:5182, PT-9 |
| 4 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | PM10 | IS 5182 (Pt-23) |
| 5 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | PM2.5 | IS 5182 (pt-24) |
| 6 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Air | Sulphur dioxide | IS:5182, Pt-2 |
| 7 | CHEMICAL- ATMOSPHERIC POLLUTION | Ambient Noise Level (Excluding vibration) | Ambient Noise Leq (dB(A)) | IS 9989 |
| 8 | CHEMICAL- ATMOSPHERIC POLLUTION | Fugitive emission | PM10 | IS: 5182 (Pt-23) |
| 9 | CHEMICAL- ATMOSPHERIC POLLUTION | Fugitive Emission | RPM | IS: 5182 (Pt-23) |
| 10 | CHEMICAL- ATMOSPHERIC POLLUTION | Fugitive emission | SPM | IS:5182 (Pt-4) |
| 11 | CHEMICAL- ATMOSPHERIC POLLUTION | Meterological Parameters | Barometric Pressure | SP 61 |
| 12 | CHEMICAL- ATMOSPHERIC POLLUTION | Meterological Parameters | Heat Index | SP 61 |
| 13 | CHEMICAL- ATMOSPHERIC POLLUTION | Meterological Parameters | Rain Fall | SP 61 |
| 14 | CHEMICAL- ATMOSPHERIC POLLUTION | Meterological Parameters | Temperature | SP 61 |
| 15 | CHEMICAL- ATMOSPHERIC POLLUTION | Meterological Parameters | Wind Direction | SP 61 |
| 16 | CHEMICAL- ATMOSPHERIC POLLUTION | Meterological Parameters | Wind Speed | SP 61 |
| 17 | CHEMICAL- ATMOSPHERIC POLLUTION | MeterologicalParameters | Relative Humidity | SP 61 |
| 18 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Carbon Dioxide | IS 13270 |

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| 19 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Carbon Monoxide | IS 13270 |
| 20 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Flow Rate | IS:11255 (Pt-3) |
| 21 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Oxygen | IS 13270 |
| 22 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Particulate Matter | IS:11255 (Pt-1) |
| 23 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Pressure | IS: 11255 (Pt-3) |
| 24 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Sulphur Dioxide | IS:11255, Pt-2 |
| 25 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Temperature | IS: 11255 (Pt-3) |
| 26 | CHEMICAL- ATMOSPHERIC POLLUTION | Stack emission | Velocity | IS: 11255 (Pt-3) |