# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** CARSUL LABORATORIES, 29-30 LGF (BASEMENT), SUCHITA COMPLEX, AMBEDKAR ROAD, GHAZIABAD, UTTAR PRADESH, INDIA

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

**Certificate Number** TC-5615 **Page No** 1 of 9

**Validity** 01/06/2022 to 31/05/2024 **Last Amended on** 27/09/2022

| 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- METALS & ALLOYS | Alloy steel & Carbon Steel | Aluminium | ASTM E 415 |
| 2 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Carbon | ASTM E 415 |
| 3 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Chromium | ASTM E 415 |
| 4 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Copper | ASTM E 415 |
| 5 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Manganese | ASTM E 415 |
| 6 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Molybdenum | ASTM E 415 |
| 7 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Nickel | ASTM E 415 |
| 8 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Nitrogen | ASTM E 415 |
| 9 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Phosphorus | ASTM E 415 |
| 10 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Silicon | ASTM E 415 |
| 11 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Sulphur | ASTM E 415 |
| 12 | CHEMICAL- METALS & ALLOYS | Alloy Steel & Carbon Steel | Vanadium | ASTM E 415 |
| 13 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Chromium | ASTM E 1251 |
| 14 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Copper | ASTM E 1251 |
| 15 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Iron | ASTM E 1251 |
| 16 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Lead | ASTM E 1251 |
| 17 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Magnesium | ASTM E 1251 |
| 18 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Manganese | ASTM E 1251 |

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|---|---|---|---|---|
| 19 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Nickel | ASTM E 1251 |
| 20 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Silicon | ASTM E 1251 |
| 21 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Tin | ASTM E 1251 |
| 22 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Titanium | ASTM E 1251 |
| 23 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Zinc | ASTM E 1251 |
| 24 | CHEMICAL- METALS & ALLOYS | Cast Iron | Carbon | ASTM E 1999 |
| 25 | CHEMICAL- METALS & ALLOYS | Cast Iron | Chromium | ASTM E 1999 |
| 26 | CHEMICAL- METALS & ALLOYS | Cast Iron | Copper | ASTM E 1999 |
| 27 | CHEMICAL- METALS & ALLOYS | Cast Iron | Manganese | ASTM E 1999 |
| 28 | CHEMICAL- METALS & ALLOYS | Cast Iron | Molybdenum | ASTM E 1999 |
| 29 | CHEMICAL- METALS & ALLOYS | Cast Iron | Nickel | ASTM E 1999 |
| 30 | CHEMICAL- METALS & ALLOYS | Cast Iron | Phosphorus | ASTM E 1999 |
| 31 | CHEMICAL- METALS & ALLOYS | Cast Iron | Silicon | ASTM E 1999 |
| 32 | CHEMICAL- METALS & ALLOYS | Cast Iron | Sulphur | ASTM E 1999 |
| 33 | CHEMICAL- METALS & ALLOYS | Cast Iron | Titanium | ASTM E 1999 |
| 34 | CHEMICAL- METALS & ALLOYS | Cast Iron | Vanadium | ASTM E 1999 |
| 35 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Aluminium | BS EN 15079 |
| 36 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Antimony | BS EN 15079 |
| 37 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Antimony | BS EN 15079 |

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|---|---|---|---|---|
| 38 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Iron | BS EN 15079 |
| 39 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Iron | BS EN 15079 |
| 40 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Lead | BS EN 15079 |
| 41 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Lead | BS EN 15079 |
| 42 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Manganese | BS EN 15079 |
| 43 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Nickel | BS EN 15079 |
| 44 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Nickel | BS EN 15079 |
| 45 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Phosphorus | BS EN 15079 |
| 46 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Phosphorus | BS EN 15079 |
| 47 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Silicon | BS EN 15079 |
| 48 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Sulphur | BS EN 15079 |
| 49 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Tin | BS EN 15079 |
| 50 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Tin | BS EN 15079 |
| 51 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Zinc | BS EN 15079 |
| 52 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Zinc | BS EN 15079 |
| 53 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Aluminium | ASTM E 2209 |
| 54 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Carbon | ASTM E 2209 |
| 55 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Chromium | ASTM E 2209 |
| 56 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Manganese | ASTM E 2209 |

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|---|---|---|---|---|
| 57 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Molybdenum | ASTM E 2209 |
| 58 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Nickel | ASTM E 2209 |
| 59 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Phosphorus | ASTM E 2209 |
| 60 | CHEMICAL- METALS & ALLOYS | Manganese Steel | Silicon | ASTM E 2209 |
| 61 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Aluminium | JIS G 1253 |
| 62 | CHEMICAL- METALS & ALLOYS | Stainless steel | Aluminium | JIS G 1253 |
| 63 | CHEMICAL- METALS & ALLOYS | Stainless steel | Carbon | JIS G 1253 |
| 64 | CHEMICAL- METALS & ALLOYS | Stainless steel | Chromium | JIS G 1253 |
| 65 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Cobalt | JIS G 1253 |
| 66 | CHEMICAL- METALS & ALLOYS | Stainless steel | Copper | JIS G 1253 |
| 67 | CHEMICAL- METALS & ALLOYS | Stainless steel | Manganese | JIS G 1253 |
| 68 | CHEMICAL- METALS & ALLOYS | Stainless steel | Molybdenum | JIS G 1253 |
| 69 | CHEMICAL- METALS & ALLOYS | Stainless steel | Nickel | JIS G 1253 |
| 70 | CHEMICAL- METALS & ALLOYS | Stainless steel | Niobium | JIS G 1253 |
| 71 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Niobium | JIS G 1253 |
| 72 | CHEMICAL- METALS & ALLOYS | Stainless steel | Nitrogen | JIS G 1253 |
| 73 | CHEMICAL- METALS & ALLOYS | Stainless steel | Phosphorus | JIS G 1253 |
| 74 | CHEMICAL- METALS & ALLOYS | Stainless steel | Silicon | JIS G 1253 |
| 75 | CHEMICAL- METALS & ALLOYS | Stainless steel | Sulphur | JIS G 1253 |

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|---|---|---|---|---|
| 76 | CHEMICAL- METALS & ALLOYS | Stainless steel | Titanium | JIS G 1253 |
| 77 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Tungsten | JIS G 1253 |
| 78 | CHEMICAL- METALS & ALLOYS | Stainless steel | Vanadium | JIS G 1253 |
| 79 | CHEMICAL- METALS & ALLOYS | Titanium & titanium alloys | Aluminium | ASTM E 2994 |
| 80 | CHEMICAL- METALS & ALLOYS | Titanium & titanium alloys | Chromium | ASTM E 2994 |
| 81 | CHEMICAL- METALS & ALLOYS | Titanium & titanium alloys | Iron | ASTM E 2994 |
| 82 | CHEMICAL- METALS & ALLOYS | Titanium & titanium alloys | Vanadium | ASTM E 2994 |
| 83 | CHEMICAL- METALS & ALLOYS | Titanium & titanium alloys | Zirconium | ASTM E 2994 |
| 84 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Aluminium | ISO 3815-1 |
| 85 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Cadmium | ISO 3815-1 |
| 86 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Copper | ISO 3815-1 |
| 87 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Iron | ISO 3815-1 |
| 88 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Lead | ISO 3815-1 |
| 89 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Magnesium | ISO 3815-1 |
| 90 | CHEMICAL- METALS & ALLOYS | Zinc & Zinc alloys | Tin | ISO 3815-1 |
| 91 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous materials alloys & products | 0.2% Proof Stress | IS 1608 (PART 1) |
| 92 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous materials alloys & products | Elongation % | IS 1608 (PART 1) |
| 93 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Bend Test | IS 1599 |

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|---|---|---|---|---|
| 94 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Impact Test (Charpy In Joules) (Temp. -50 Degree TO + 30 Degree) | IS 1757 PART 1 |
| 95 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Mass (Kg/m) | IS: 1786 |
| 96 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Rockwell Hardness HRC | IS 1586 PART 1 |
| 97 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Tensile Strength (Upto 380 KN) | IS:1608 (Part 1) |
| 98 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Tensile Strength (Upto 380KN) | ASTM A 370 |
| 99 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Vickers Hardness HV10 | IS 1501 PART1 |
| 100 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials,alloys & products | 0.2% Proof Stress | ASTM A 370 |
| 101 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials,alloys & products | Elongation % | ASTM A 370 |
| 102 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials,alloys & products | Reduction in Area % | ASTM A 370 |
| 103 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials,alloys & products | Reduction In Area % | IS 1608 (PART 1) |
| 104 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metal Pipe, Metal Tube | Flattening Test | IS 2328 |
| 105 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Other non-ferrous metals, alloys & products | 0.2% Proof Stress | ASTM B 557 |
| 106 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Other non-ferrous metals, alloys & products | Elongation % | ASTM B 557 |
| 107 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Other non-ferrous metals, alloys & products | Tensile Strength (Upto 380 KN) | ASTM B 557 |

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| 108 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Other Non-Ferrous metals, alloys & products | Vickers Hardness HV10 | IS:1501 PART1 |
| 109 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Threaded steel fasteners | Proof Load Test for Nuts | IS 1367 PART 6 |
| 110 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TMT Bars | Rebend Test | IS 1786 |
| 111 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | 0.2% Proof Stress | ASME Section IX |
| 112 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | 0.2% Proof Stress | AWS D1.1 |
| 113 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | 0.2% Proof Stress | IS 7307 Part 1 |
| 114 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | All Weld Tensile Strength | ASME Section IX |
| 115 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | All Weld Tensile Strength | AWS D1.1 |
| 116 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | All Weld Tensile Strength | IS 7307 Part 1 |
| 117 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation % | ASME Section IX |
| 118 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation % | IS 7307 Part 1 |
| 119 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Fracture Test | ASME Section IX |
| 120 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Fracture Test | AWS D1.1 |
| 121 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Fracture Test | IS 7307 Part 1 |

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| 122 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Fracture Test | IS 7310 Part 1 |
| 123 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Hardness Survey | IS:7307 Part 1 |
| 124 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Impact Test (Charpy In Joules) (Temp. -60 Degree TO + 30 Degree) | ASTM A 370 |
| 125 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction in area% | ASME Section IX |
| 126 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction in Area% | AWS D1.1 |
| 127 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Rockwell Hardness HRC | IS 1586 PART 1 |
| 128 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Root Bend Test, Face Bend Test, Side Bend Test | ASME Section IX |
| 129 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Root Bend Test, Face Bend Test, Side Bend Test | AWS D1.1 |
| 130 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Root Bend Test, Face Bend Test, Side Bend Test | IS 7307 Part 1 |
| 131 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Root Bend Test, Face Bend Test, Side Bend Test | IS 7310 Part 1 |
| 132 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Transverse Tensile Stength | ASME Section IX |
| 133 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Transverse Tensile Strength | AWS D1.1 |
| 134 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Transverse Tensile Strength | IS 7307 Part 1 |
| 135 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Vickers Hardness Test HV10 | IS 1501 PART1 |

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| 136 | MECHANICAL-METALLOGRAPHY TEST | Ferrous materials, alloys & products | Determining Average Grain Size | ASTM E 112 |
| 137 | MECHANICAL-METALLOGRAPHY TEST | Welds & welded test specimens | Macro Examination | ASME Section IX |
| 138 | MECHANICAL-METALLOGRAPHY TEST | Welds & welded test specimens | Macro Examination | AWS D1.1 |
| 139 | MECHANICAL-METALLOGRAPHY TEST | Welds & welded test specimens | Macro Examination | IS 7307 Part 1 |
| 140 | MECHANICAL-METALLOGRAPHY TEST | Welds & welded test specimens | Macro Examination | IS 7310 Part 1 |