# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** GLOBAL METALLURGICAL SERVICES, 254/I, INDUSTRIAL LINING, GIDC MAKARPURA, VADODARA, GUJARAT, INDIA

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

**Certificate Number** TC-8362 **Page No** 1 of 19

**Validity** 21/02/2022 to 20/02/2024 **Last Amended on** 04/03/2022

| 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 | Aluminium | ASTM E 415 |
| 2 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Aluminium | IS 8811 |
| 3 | CHEMICAL- METALS & ALLOYS | Alloy steel | Carbon | ASTM E 415 |
| 4 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Carbon | IS 8811 |
| 5 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Chromium | ASTM E 415 |
| 6 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Chromium | IS 8811 |
| 7 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Cobalt | ASTM E 415 |
| 8 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Cobalt | IS 8811 |
| 9 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Copper | ASTM E 415 |
| 10 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Copper | IS 8811 |
| 11 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Manganese | ASTM E 415 |
| 12 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Manganese | IS 8811 |
| 13 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Molybdenum | ASTM E 415 |
| 14 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Molybdenum | IS 8811 |
| 15 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Nickel | ASTM E 415 |
| 16 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Nickel | IS 8811 |
| 17 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Nitrogen | ASTM E 415 |
| 18 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Nitrogen | IS 8811 |

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**Laboratory Name :** GLOBAL METALLURGICAL SERVICES, 254/I, INDUSTRIAL LINING, GIDC MAKARPURA, VADODARA, GUJARAT, INDIA

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

**Certificate Number** TC-8362 **Page No** 2 of 19

**Validity** 21/02/2022 to 20/02/2024 **Last Amended on** 04/03/2022

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|---|---|---|---|---|
| 19 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Phosphorous | ASTM E 415 |
| 20 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Phosphorous | IS 8811 |
| 21 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Silicon | ASTM E 415 |
| 22 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Silicon | IS 8811 |
| 23 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Sulphur | ASTM E 415 |
| 24 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Sulphur | IS 8811 |
| 25 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Titanium | ASTM E 415 |
| 26 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Titanium | IS 8811 |
| 27 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Vanadium | ASTM E 415 |
| 28 | CHEMICAL- METALS & ALLOYS | Alloy Steel | Vanadium | IS 8811 |
| 29 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Chromium | ASTM E 1251 |
| 30 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Copper | ASTM E 1251 |
| 31 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Iron | ASTM E 1251 |
| 32 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Lead | ASTM E 1251 |
| 33 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Magnesium | ASTM E 1251 |
| 34 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Manganese | ASTM E 1251 |
| 35 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Nickel | ASTM E 1251 |
| 36 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Silicon | ASTM E 1251 |
| 37 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Tin | ASTM E 1251 |

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|---|---|---|---|---|
| 38 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Titanium | ASTM E 1251 |
| 39 | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys | Zinc | ASTM E 1251 |
| 40 | CHEMICAL- METALS & ALLOYS | carbon and alloy steel | Aluminium | ASTM E 415 |
| 41 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Aluminium | IS 8811 |
| 42 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Carbon | ASTM E 415 |
| 43 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Carbon | IS 8811 |
| 44 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Chromium | ASTM E 415 |
| 45 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Chromium | IS 8811 |
| 46 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Cobalt | ASTM E 415 |
| 47 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Cobalt | IS 8811 |
| 48 | CHEMICAL- METALS & ALLOYS | carbon and alloy steel | Copper | ASTM E 415 |
| 49 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Copper | IS 8811 |
| 50 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Manganese | ASTM E 415 |
| 51 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Manganese | IS 8811 |
| 52 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Molybdenum | ASTM E 415 |
| 53 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Molybdenum | IS 8811 |
| 54 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Nickel | ASTM E 415 |
| 55 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Nickel | IS 8811 |
| 56 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Nitrogen | ASTM E 415 |

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| | | | |
|---|---|---|---|
| **Laboratory Name :** | GLOBAL METALLURGICAL SERVICES, 254/I, INDUSTRIAL LINING, GIDC MAKARPURA, VADODARA, GUJARAT, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
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|---|---|---|---|---|
| 57 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Nitrogen | IS 8811 |
| 58 | CHEMICAL- METALS & ALLOYS | carbon and alloy steel | Phosphorous | ASTM E 415 |
| 59 | CHEMICAL- METALS & ALLOYS | carbon and alloy steel | Phosphorous | IS 8811 |
| 60 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Silicon | ASTM E 415 |
| 61 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Silicon | IS 8811 |
| 62 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Sulphur | ASTM E 415 |
| 63 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Sulphur | IS 8811 |
| 64 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Titanium | ASTM E 415 |
| 65 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Titanium | IS 8811 |
| 66 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Vanadium | ASTM E 415 |
| 67 | CHEMICAL- METALS & ALLOYS | Carbon and alloy steel | Vanadium | IS 8811 |
| 68 | CHEMICAL- METALS & ALLOYS | copper & its alloys | Aluminium | BS EN 15079 |
| 69 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Antimony | BS EN 15079 |
| 70 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Arsenic | BS EN 15079 |
| 71 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Bismuth | BS EN 15079 |
| 72 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Iron | BS EN 15079 |
| 73 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Lead | BS EN 15079 |
| 74 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Manganese | BS EN 15079 |
| 75 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Nickel | BS EN 15079 |

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|---|---|---|---|---|
| 76 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Phosphorous | BS EN 15079 |
| 77 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Silicon | BS EN 15079 |
| 78 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Sulphur | BS EN 15079 |
| 79 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Tin | BS EN 15079 |
| 80 | CHEMICAL- METALS & ALLOYS | Copper & its alloys | Zinc | BS EN 15079 |
| 81 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Aluminium | ASTM E 3047 |
| 82 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Carbon | ASTM E 3047 |
| 83 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Cobalt | ASTM E 3047 |
| 84 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Copper | ASTM E 3047 |
| 85 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Cromium | ASTM E 3047 |
| 86 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Iron | ASTM E 3047 |
| 87 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Manganese | ASTM E 3047 |
| 88 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Molybdenum | ASTM E 3047 |
| 89 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Niobium | ASTM E 3047 |
| 90 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Phosphorous | ASTM E 3047 |
| 91 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Silicon | ASTM E 3047 |
| 92 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Sulphur | ASTM E 3047 |
| 93 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Titanium | ASTM E 3047 |
| 94 | CHEMICAL- METALS & ALLOYS | Nickel & its alloys | Vanadium | ASTM E 3047 |

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|---|---|---|---|---|
| 95 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Aluminium | ASTM E 1086 |
| 96 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Aluminium | IS 9879 |
| 97 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | ASTM E 1086 |
| 98 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | IS 9879 |
| 99 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | ASTM E 1086 |
| 100 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | IS 9879 |
| 101 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Cobalt | ASTM E 1086 |
| 102 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Cobalt | IS 9879 |
| 103 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | ASTM E 1086 |
| 104 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | IS 9879 |
| 105 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese | ASTM E 1086 |
| 106 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese | IS 9879 |
| 107 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | ASTM E 1086 |
| 108 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | IS 9879 |
| 109 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | ASTM E 1086 |
| 110 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | IS 9879 |
| 111 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Niobium | ASTM E 1086 |
| 112 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Niobium | IS 9879 |
| 113 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nitrogen | ASTM E 1086 |

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|---|---|---|---|---|
| 114 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nitrogen | IS 9879 |
| 115 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphorous | ASTM E 1086 |
| 116 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphorous | IS 9879 |
| 117 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | ASTM E 1086 |
| 118 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | IS 9879 |
| 119 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | ASTM E 1086 |
| 120 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | IS 9879 |
| 121 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Titanium | ASTM E 1086 |
| 122 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Titanium | IS 9879 |
| 123 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Tungsten | ASTM E 1086 |
| 124 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Tungsten | IS 9879 |
| 125 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Vanadium | ASTM E 1086 |
| 126 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Vanadium | IS 9879 |
| 127 | CHEMICAL- METALS & ALLOYS | Tool Steel | Aluminium | JIS G 1253 |
| 128 | CHEMICAL- METALS & ALLOYS | Tool Steel | Carbon | JIS G 1253 |
| 129 | CHEMICAL- METALS & ALLOYS | Tool Steel | Chromium | JIS G 1253 |
| 130 | CHEMICAL- METALS & ALLOYS | Tool Steel | Cobalt | JIS G 1253 |
| 131 | CHEMICAL- METALS & ALLOYS | Tool Steel | Copper | JIS G 1253 |
| 132 | CHEMICAL- METALS & ALLOYS | Tool Steel | Manganese | JIS G 1253 |

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|---|---|---|---|---|
| 133 | CHEMICAL- METALS & ALLOYS | Tool Steel | Molybdenum | JIS G 1253 |
| 134 | CHEMICAL- METALS & ALLOYS | Tool Steel | Nickel | JIS G 1253 |
| 135 | CHEMICAL- METALS & ALLOYS | Tool Steel | Phosphorous | JIS G 1253 |
| 136 | CHEMICAL- METALS & ALLOYS | Tool Steel | Silicon | JIS G 1253 |
| 137 | CHEMICAL- METALS & ALLOYS | Tool Steel | Sulphur | JIS G 1253 |
| 138 | CHEMICAL- METALS & ALLOYS | Tool Steel | Tungsten | JIS G 1253 |
| 139 | CHEMICAL- METALS & ALLOYS | Tool Steel | Vanadium | JIS G 1253 |
| 140 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Austenitic and Ferritic-austenitic (Duplex) Stainless steel | Huey Test | DIN 3651 (Part 1) |
| 141 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Austenitic Stainless Steel | IGC Practice A | ASTM A262 |
| 142 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Austenitic Stainless Steel | IGC Practice B | ASTM A262 |
| 143 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Austenitic Stainless Steel | IGC Practice C | ASTM A262 |
| 144 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Austenitic Stainless Steel | IGC Practice E | ASTM A262 |
| 145 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Austenitic Stainless Steel | IGC Practice F | ASTM A262 |
| 146 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Feritic, Austenitic and Ferritic-austenitic (Duplex) Stainless Steel | Strauss test | DIN 3651 (Part 2) |
| 147 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Feritic, Austenitic and Ferritic-austenitic (Duplex) Stainless Steel | Sulfuric acid/copper sulfate test | DIN 3651 (Part 2) |

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|---|---|---|---|---|
| 148 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Feritic, Austenitic and Ferritic-austenitic (Duplex) Stainless Steel | sulfuric acid/ferric sulfate test | DIN 3651 (Part 2) |
| 149 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Brinell Hardness Test | ASTM A 370 |
| 150 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | ASTM A 370 |
| 151 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | ASTM A 370 |
| 152 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | ASTM A 370 |
| 153 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | ASTM E 18 |
| 154 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | ASTM E 18 |
| 155 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | ASTM E18 |
| 156 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | BS EN ISO 6508 (Part 1) |
| 157 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | BS EN ISO 6508 (Part 1) |
| 158 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | BS EN ISO 6508 (Part 1) |
| 159 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | IS 1586 (Part 1) |
| 160 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | IS 1586 (Part 1) |
| 161 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Rockwell Hardness Test | IS 1586 (Part 1) |

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|---|---|---|---|---|
| 162 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | ASTM E 92 |
| 163 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | ASTM E92 |
| 164 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | ASTM E92 |
| 165 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | BS EN 1043 (Part 1) |
| 166 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | BS EN 1043 (Part 1) |
| 167 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | BS EN 1043 (Part 1) |
| 168 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | IS 1501 (Part 1) |
| 169 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | IS 1501 (Part 1) |
| 170 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | IS 1501 (Part 1) |
| 171 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | ISO 6507 (Part 1) |
| 172 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | ISO 6507 (Part 1) |
| 173 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products | Vicker Hardness Test | ISO 6507 (Part 1) |
| 174 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Bend Test | ASTM A 370 |
| 175 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Bend Test | ASTM E290 |

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|---|---|---|---|---|
| 176 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Bend Test | BS EN ISO 7438 |
| 177 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Bend Test | IS 1599 |
| 178 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Bend Test of Reinforcement Bar / Rebend Test of Reinforcement Bar / TMT Bar | IS 1786 (amd -3) |
| 179 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Brinell Hardness Test | ASTM E10 |
| 180 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Brinell Hardness Test | BS EN ISO 6506 (Part 1) |
| 181 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Brinell Hardness Test | IS 1500 (Part 1) |
| 182 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Charpy V Notch Impact Test (+30' C to -196' C) | ASTM E 23 |
| 183 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Charpy V Notch Impact Test (+30' C to -196' C) | BS EN ISO 9016 |
| 184 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Charpy V Notch Impact Test (+30' C to -196' C) | IS 1757 (Part 1) |
| 185 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Charpy V Notch Impact Test (+30' C to -196' C) | IS 3600 (Part 2) |
| 186 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Charpy V Notch Impact Test (+30' C to -196' C) | ISO 148 (Part 1) |
| 187 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Charpy V Notch Impact Test (+30' C to -196'C) | ASTM A 370 |
| 188 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Elongation | ASTM A 370 |
| 189 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Elongation | ASTM E8/8M |

# SCOPE OF ACCREDITATION

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|---|---|---|---|---|
| 190 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Elongation | BS EN ISO 6892 (Part 1) |
| 191 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Elongation | IS 1608 (Part 1) |
| 192 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flaring Test - Tube / Pipe | ASTM A 370 |
| 193 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flaring Test - Tube / Pipe | ASTM A 450 |
| 194 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flaring Test - Tube / Pipe | BS EN ISO 8493 |
| 195 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flaring Test - Tube / Pipe | IS 1239 (Part - 2 ) |
| 196 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flaring Test - Tube / Pipe | IS 2335 |
| 197 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flattening Test - Tube / Pipe | API 5L |
| 198 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flattening Test - Tube / Pipe | ASTM A 370 |
| 199 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flattening Test - Tube / Pipe | ASTM A 450 |
| 200 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flattening Test - Tube / Pipe | BS EN ISO 8492 |
| 201 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flattening Test - Tube / Pipe | IS 1239 (Part 1) |
| 202 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Flattening Test - Tube / Pipe | IS 2328 |
| 203 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test - Nut | ASTM A 194 |

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|---|---|---|---|---|
| 204 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test - Nut | ASTM A 370 |
| 205 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test - Nut | ISO 898 (Part 2) |
| 206 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test - Stud / Bolt | ASTM A 370 |
| 207 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test - Stud / Bolt | IS 1367 (Part 3) |
| 208 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test - Stud / Bolt | ISO 898 (Part 1) |
| 209 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Load Test- Nut | IS 1367 (Part - 6) |
| 210 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Stress | ASTM A 370 |
| 211 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Stress | ASTM E8/8M |
| 212 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Stress | BS EN ISO 6892 (Part 1) |
| 213 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Proof Stress | IS 1608 (Part 1) |
| 214 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Reduction of Area | ASTM A 370 |
| 215 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Reduction of Area | ASTM E8/8M |
| 216 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Reduction of Area | BS EN ISO 6892 (Part 1) |
| 217 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Reduction of Area | IS 1608 (Part 1) |

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|---|---|---|---|---|
| 218 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Tensile strength | ASTM A 370 |
| 219 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Tensile Strength | ASTM E8/8M |
| 220 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Tensile Strength | BS EN ISO 6892 (Part 1) |
| 221 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Tensile Strength | IS 1608 (Part 1) |
| 222 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Unit Weight Test | IS 1786 (amd - 3) |
| 223 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Yield Strength | ASTM A 370 |
| 224 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Yield Strength | ASTM E8/8M |
| 225 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Yield Strength | BS EN ISO 6892 (Part 1) |
| 226 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | Yield Strength | IS 1608 (Part 1) |
| 227 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Elongation | ASTM E8/8M |
| 228 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Elongation | BS EN ISO 6892 (Part 1) |
| 229 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Elongation | IS 1608 (Part 1) |
| 230 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Proof Stress | ASTM E8/8M |
| 231 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Proof Stress | BS EN ISO 6892 (Part 1) |

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|---|---|---|---|---|
| 232 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Proof Stress | IS 1608 (Part 1) |
| 233 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Reduction of Area | ASTM E8/8M |
| 234 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Reduction of Area | BS EN ISO 6892 (Part 1) |
| 235 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Reduction of Area | IS 1608 (Part 1) |
| 236 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Tensile strength | ASTM E8/8M |
| 237 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Tensile Strength | BS EN ISO 6892 (Part 1) |
| 238 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Tensile Strength | IS 1608 (Part 1) |
| 239 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Yield Strength | ASTM E8/8M |
| 240 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Yield Strength | BS EN ISO 6892 (Part 1) |
| 241 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous material, alloys & products | Yield Strength | IS 1608 (Part 1) |
| 242 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Bend Test | API 1104 |
| 243 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Bend Test | ASME Sec. IX |
| 244 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Bend Test | ASTM E190 |
| 245 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Bend Test | AWS D1.1 |

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|---|---|---|---|---|
| 246 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Bend Test | BS EN ISO 5173 (A1-2011) |
| 247 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Bend Test | IS 3600 (Part 5) |
| 248 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | API 1104 |
| 249 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | ASME Sec IX |
| 250 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | AWS B 4.0 |
| 251 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | AWS D1.1 |
| 252 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | BS EN ISO 15614 (Part 1) |
| 253 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | BS EN ISO 5178 |
| 254 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Elongation | IS 3600 (Part 3) |
| 255 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test Specimens | Fracture Test | ASME Sec IX |
| 256 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test Specimens | Fracture Test | AWS D1.1 |
| 257 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test Specimens | Fracture Test | IS 3600 (Part 8) |
| 258 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test Specimens | Fracture Test | ISO 9017 |
| 259 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test Specimens | Nick Break Test | API 1104 |

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|---|---|---|---|---|
| 260 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test Specimens | Nick Break Test | IS 3600 (Part 8) |
| 261 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | API 1104 |
| 262 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | ASME Sec IX |
| 263 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | AWS B 4.0 |
| 264 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | AWS D1.1 |
| 265 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | BS EN ISO 15614 (Part 1) |
| 266 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | BS EN ISO 5178 |
| 267 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Proof Stress | IS 3600 (Part 3) |
| 268 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | API 1104 |
| 269 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | ASME Sec IX |
| 270 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | AWS B 4.0 |
| 271 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | AWS D1.1 |
| 272 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | BS EN ISO 15614 (Part 1) |
| 273 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | BS EN ISO 5178 |

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|---|---|---|---|---|
| 274 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Reduction of Area | IS 3600 (Part 3) |
| 275 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | API 1104 |
| 276 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | ASME Sec IX |
| 277 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | AWS B 4.0 |
| 278 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | AWS D1.1 |
| 279 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | BS EN ISO 15614 (Part 1) |
| 280 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | BS EN ISO 5178 |
| 281 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Tensile Strength | IS 3600 (Part 3) |
| 282 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | API 1104 |
| 283 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | ASME Sec IX |
| 284 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | AWS B 4.0 |
| 285 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | AWS D1.1 |
| 286 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | BS EN ISO 15614 (Part 1) |
| 287 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | BS EN ISO 5178 |

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|---|---|---|---|---|
| 288 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens | Yield Strength | IS 3600 (Part 3) |
| 289 | MECHANICAL-METALLOGRAPHY TEST | Duplex Austenitic/Ferritic Stainless Steels | Intermetallic Phase (sodium hydroxide etch test) | ASTM A 923 |
| 290 | MECHANICAL-METALLOGRAPHY TEST | Ferrous Material, alloys & products | Metal & Oxide Coating Thickness | ASTM B487 |
| 291 | MECHANICAL-METALLOGRAPHY TEST | Ferrous materials, alloys & products | Grain Size Measurement by Comaparsion Method | ASTM E 112 |
| 292 | MECHANICAL-METALLOGRAPHY TEST | Ferrous materials, alloys & products | Macro Examination | ASME Sec IX |
| 293 | MECHANICAL-METALLOGRAPHY TEST | Ferrous materials, alloys & products | Micro structure Examination | ASM Handbook Volume 9 |
| 294 | MECHANICAL-METALLOGRAPHY TEST | Weld Metal | Macro Examination of Weld | IS 3600 (Part 9) |
| 295 | MECHANICAL-METALLOGRAPHY TEST | Weld Metal | Micro Examination of Weld | IS 3600 (Part 9) |