# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** COMMANDO LAB, NO. 3A, 5TH SOUTH STREET, AVARAMPALAYAM, COIMBATORE, TAMIL NADU, INDIA

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

**Certificate Number** TC-5123 **Page No** 1 of 10

**Validity** 03/02/2023 to 02/02/2025 **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 |
|---|---|---|---|---|
| Permanent Facility | | | | |
| 1 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Chromium | ASTM E1251 |
| 2 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Copper | ASTM E1251 |
| 3 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Iron | ASTM E1251 |
| 4 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Lead | ASTM E 1251 |
| 5 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Magnesium | ASTM E 1251 |
| 6 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Manganese | ASTM E 1251 |
| 7 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Silicon | ASTM E 1251 |
| 8 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Titanium | ASTM E 1251 |
| 9 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Vanadium | ASTM E 1251 |
| 10 | CHEMICAL- METALS & ALLOYS | Aluminium Alloy | Zinc | ASTM E 1251 |
| 11 | CHEMICAL- METALS & ALLOYS | CAST IRON | Carbon | ASTM E 1999 |
| 12 | CHEMICAL- METALS & ALLOYS | Cast Iron | Chromium | ASTM E 1999 |
| 13 | CHEMICAL- METALS & ALLOYS | Cast Iron | Magnesium | GIS G 1253 |
| 14 | CHEMICAL- METALS & ALLOYS | Cast Iron | Manganese | ASTM E 1999 |
| 15 | CHEMICAL- METALS & ALLOYS | Cast Iron | Molybdenum | ASTM E 1999 |
| 16 | CHEMICAL- METALS & ALLOYS | Cast Iron | Nickel | ASTM E 1999 |
| 17 | CHEMICAL- METALS & ALLOYS | Cast Iron | Phosphrous | ASTM E 1999 |
| 18 | CHEMICAL- METALS & ALLOYS | Cast Iron | Silicon | ASTM E 1999 |

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|---|---|---|---|---|
| 19 | CHEMICAL- METALS & ALLOYS | Cast Iron | Sulphur | ASTM E 1999 |
| 20 | CHEMICAL- METALS & ALLOYS | Cast Iron | Titanium | ASTM E 1999 |
| 21 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Aluminium | BS EN 15079 |
| 22 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Antimony | BS EN 15079 |
| 23 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Iron | BS EN 15079 |
| 24 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Lead | BS EN 15079 |
| 25 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Manganese | BS EN 15079 |
| 26 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Nickel | BS EN 15079 |
| 27 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Phosphorous | BS EN 15079 |
| 28 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Silicon | BS EN 15079 |
| 29 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Sulphur | BS EN 15079 |
| 30 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Tin | BS EN 15079 |
| 31 | CHEMICAL- METALS & ALLOYS | Copper Alloy | Zinc | BS EN 15079 |
| 32 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Aluminium | ASTM E 415 |
| 33 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Boron | ASTM E 415 |
| 34 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Carbon | ASTM E 415 |
| 35 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Chromium | ASTM E 415 |
| 36 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Cobalt | IS 8811 |
| 37 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Copper | ASTM E 415 |

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| 38 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Manganese | ASTM E 415 |
| 39 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Molybdenum | ASTM E 415 |
| 40 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Nickel | ASTM E 415 |
| 41 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Niobium | ASTM E 415 |
| 42 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Phosphorus | ASTM E 415 |
| 43 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Silicon | ASTM E 415 |
| 44 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Sulphur | ASTM E 415 |
| 45 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Titanium | ASTM E 415 |
| 46 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Vanadium | ASTM E 415 |
| 47 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Aluminium | IS 8811 |
| 48 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Boron | JIS G 1253 |
| 49 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Carbon | IS 8811 |
| 50 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Carbon | JIS G 1253 |
| 51 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Chromium | IS 8811 |
| 52 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Chromium | JIS G 1253 |
| 53 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Copper | IS 8811 |
| 54 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Copper | JIS G 1253 |
| 55 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Managanese | IS 8811 |
| 56 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Managanese | JIS G 1253 |

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| 57 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Molybdenum | IS 8811 |
| 58 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Molybdenum | JIS G 1253 |
| 59 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Nickel | IS 8811 |
| 60 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Nickel | JIS G 1253 |
| 61 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Niobium | JIS G 1253 |
| 62 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Phosphrous | IS 8811 |
| 63 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Phosphrous | JIS G 1253 |
| 64 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Silicon | IS 8811 |
| 65 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Silicon | JIS G 1253 |
| 66 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Sulphur | IS 8811 |
| 67 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Sulphur | JIS G 1253 |
| 68 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Titanium | IS 8811 |
| 69 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Vanadium | IS 8811 |
| 70 | CHEMICAL- METALS & ALLOYS | Plain Carbon & Low Alloy Steel | Vanadium | JIS G 1253 |
| 71 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | ASTM E 1086 |
| 72 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | IS 9879 |
| 73 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon | JIS G1253 |
| 74 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | ASTM E 1086 |
| 75 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | IS 9879 |

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|---|---|---|---|---|
| 76 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium | JIS G 1253 |
| 77 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | ASTM E 1086 |
| 78 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | IS 9879 |
| 79 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Copper | JIS G 1253 |
| 80 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganase | IS 9879 |
| 81 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese | ASTM E 1086 |
| 82 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese | JIS G 1253 |
| 83 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | ASTM E 1086 |
| 84 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | IS 9879 |
| 85 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum | JIS G1253 |
| 86 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | ASTM E 1086 |
| 87 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | IS 9879 |
| 88 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel | JIS G 1253 |
| 89 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Niobium | JIS G 1253 |
| 90 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nitrogen | JIS G 1253 |
| 91 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphorus | ASTM E 1086 |
| 92 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphrous | JIS G 1253 |
| 93 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | ASTM E 1086 |
| 94 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | IS 9879 |

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|---|---|---|---|---|
| 95 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon | JIS G 1253 |
| 96 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | ASTM E 1086 |
| 97 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | IS 9879 |
| 98 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulphur | JIS G 1253 |
| 99 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Titanium | JIS G 1253 |
| 100 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Vanadium | JIS G 1253 |
| 101 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous and nonferrous metals | Fracture Test | IS 2825 |
| 102 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous and nonferrous metals | Micro vickers Hardness (HV 0.100) | ASTM E 384 |
| 103 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Elongation | ASTM E8/E8M |
| 104 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Elongation | IBR 1950 |
| 105 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Elongation | IS 1608 Part 1 |
| 106 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Elongation | ISO 6892-1 |
| 107 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Elongation at Elevated Temperature (50 C to 600 C) | ASTM E 21 |
| 108 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Elongation at Elevated temperature (50 C to 600 C) | ISO 6892-2 |
| 109 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Reduction | ISO 6892-1 |

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| 110 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Reduction Area | ASTM E8/E8M |
| 111 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Reduction Area | IBR 1950 |
| 112 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Reduction Area | IS 1608 Part 1 |
| 113 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | % of Reduction at Elevated Temperature (50 C to 600 C) | ASTM E 21 |
| 114 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Brinell Hardness Test (HBW 10mm/3000kgf) | ASTM E 10 |
| 115 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Brinell Hardness Test (HBW 5mm/750kg | IS 1500 Part 1 |
| 116 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Charpy Impact Test ( 25 Degre - Minus 196 Degree) | ASTM E 23 |
| 117 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Charpy Impact Test ( 25 Degre - Minus 196 Degree) | ISO 148-1 |
| 118 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Longitudinal Root and Face Bend Test | IBR 1950 |
| 119 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Proof Stree at Ambient Temperature | ASTM E8/E8M |
| 120 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Proof Stress (0.2 & 1 % off Set) | ISO 6892-1 |
| 121 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Reduction Area at Elevated Temperature (50 C to 600 C) | ISO 6892-2 |
| 122 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Rockwell Hardness (HRA) | IS 1586 Part 1 |
| 123 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Rockwell Hardness Test - HRC | ASTM E 18 |

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| 124 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Rockwell Hardness Test (HRBW) | ASTM E 18 |
| 125 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Tensile Strees at Elevated Temperature (50 C to 600 C) | ASTM E 21 |
| 126 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Tensile Stress | IBR 1950 |
| 127 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Tensile Stress | IS 1608 PART 1 |
| 128 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Tensile Stress at Ambient Tempearture | ASTM E8/E8M |
| 129 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Tensile Stress at Ambient Temperature | ISO 6892-1 |
| 130 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Tensile Stress at Elevated Temperature (50 C to 600 C) | ISO 6892-2 |
| 131 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Vickers Hardness Test (HV 10) | ASTM E 92 |
| 132 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Vickers Hardness Test (HV 10) | ISO 6507 - 1 |
| 133 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Yield Stress (0.2 % off set, 1.0 % off Set) | IS 1608 Part 1 |
| 134 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Yield Stress at Ambient Temperature | ASTM E8/E8M |
| 135 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Yield Stress At Ambient Temperature | IBR 1950 |
| 136 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Yield Stress at Ambient Temperature | ISO 6892-1 |
| 137 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Yield Stress at Elevated Temperature ( 50 C to 600 C) | ASTM E 21 |

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| 138 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials | Yield Stress at Elevated Temperature (50 C to 600 C) | ISO 6892-2 |
| 139 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel and related alloys | Longitudinal Root and Face Bend Test | IS 3600 Part 7 |
| 140 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel and related alloys | Transverse bend Test (Root Bend, Face Bend, Side Bend) | AWS D 1.1 |
| 141 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel and related alloys | Transverse Root and Face Bend Test | IS 3600 Part 5 |
| 142 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel and related alloys | Transverse Tensile stress | AWS D1.1 |
| 143 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, related alloys pipe and piping components | Bend Test (Root Bend, Face Bend, Side Bend) | API 1104 |
| 144 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, related alloys pipe and piping components | Nick Break Test | API 1104 |
| 145 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, related alloys pipe and piping components | Tensile Stress at Ambient Temperature | API 1104 |
| 146 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel and related alloys | Charpy Impact Test ( 25 Degre - Minus 196 Degree) | ASTM A 370 |
| 147 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel and related alloys | Transverse Root and Face Bend Test | ASTM A 370 |
| 148 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel, Copper and Aluminium related alloys | Fracture Test | ASME SEC IX |
| 149 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel, Copper and Aluminium related alloys | Longitudinal Root and Face Bend | ASME SEC IX |
| 150 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel, Copper and Aluminium related alloys | Tensile Stess at Ambient Temperature | ASME SEC IX |
| 151 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel, Copper and Aluminium related alloys | Transeverse Side Bend Test | ASME SEC IX |

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|---|---|---|---|---|
| 152 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel, Stainless Steel, Copper and Aluminium related alloys | Transverse Root and Face Bend Test | ASME SEC IX |
| 153 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Wrought and Cast Aluminium and Magnesium alloy products | Tensile Stress | ASTM B 557 |
| 154 | MECHANICAL-METALLOGRAPHY TEST | Austenitic Stainless Steel | Intergaranular Corrosion Test Practice E | ASTM A 262 |
| 155 | MECHANICAL-METALLOGRAPHY TEST | Austenitic Stainless Steel | Intergranular Corrosion Test Practice B | ASTM A 262 |
| 156 | MECHANICAL-METALLOGRAPHY TEST | Austenitic Stainless Steel | Intergranular Corrosion Test Practice Method A | ASTM A 262 |
| 157 | MECHANICAL-METALLOGRAPHY TEST | Cast Iron | Micro Examination Nodularity and Nodule count by Image Analyser Method | ASTM A 247 |
| 158 | MECHANICAL-METALLOGRAPHY TEST | Cast Iron | Microstructure of Graphite Cast Iron | IS 7754 |
| 159 | MECHANICAL-METALLOGRAPHY TEST | Duplex Austenitic and Ferritic Stainless Steel | Intergranula Corrosion Test Practice B | ASTM A 923 |
| 160 | MECHANICAL-METALLOGRAPHY TEST | Duplex Austenitic and Ferritic Stainless Steel | Intergranular Corrosion Test Practice A | ASTM A 923 |
| 161 | MECHANICAL-METALLOGRAPHY TEST | Metal and alloys | Determination of Volume Fraction of Phase | ASTM E 562 |
| 162 | MECHANICAL-METALLOGRAPHY TEST | Metal and alloys | Micro Examination | ASM Metal Hand Book Vol. 9 |
| 163 | MECHANICAL-METALLOGRAPHY TEST | Metallic and Non Metallic Materials and alloys | Apparent Grain Size by comparison method | ASTM E 112 |
| 164 | MECHANICAL-METALLOGRAPHY TEST | Metals and alloys | Macro Examination | ASTM E 340 |
| 165 | MECHANICAL-METALLOGRAPHY TEST | Stainless Steel and related alloys | Pitting Corrosion Test | ASTM G 48 |
| 166 | MECHANICAL-METALLOGRAPHY TEST | Steel and its alloys product | Non Metallic Inclusion by Method A | ASTM E 45 |
| 167 | MECHANICAL-METALLOGRAPHY TEST | Steel Bars, Billets, Blooms, and Forgings | Macro Examination | ASTM E 381 |
| 168 | MECHANICAL-METALLOGRAPHY TEST | Steel, Stainless Steel, Copper and Aluminium related alloys | Macro Test | ASME SEC IX |