



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MET-HEAT ENGINEERS PVT LTD, 857/2, GIDC INDUSTRIAL ESTATE,  
MAKARPURA, VADODARA, GUJARAT, INDIA

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

**Certificate Number** TC-7726 **Page No** 1 of 41

**Validity** 22/09/2025 to 21/09/2029 **Last Amended on** 28/11/2025

| 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 Testing |                           |  |  |  |
| 1                 | CHEMICAL- CORROSION TESTS | DUPLEX STAINLESS STEELS  | DETERMINATION OF INTER METALLIC PHASE IN DUPLEX STAINLESS STEEL  | ASTM A-923 (METHOD-C)  |
| 2                 | CHEMICAL- CORROSION TESTS | Electroplated and anodized Aluminum coated products              | ACETIC ACID SALT SPRAY (AASS)  | IS 5528  |
| 3                 | CHEMICAL- CORROSION TESTS | Electrotechnical products components, equipment and materials    | SALT SPRAY TEST  | IEC 60068-2-11   |
| 4                 | CHEMICAL- CORROSION TESTS | Ferrous and nonferrous metals AND organic and inorganic coatings | ACETIC ACID SALT SPRAY (AASS)  | ASTM G85 (ANNEXURE A1)   |
| 5                 | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | Intergranular corrosion Test (IGC TEST)  | ISO-3651-3(E)  |
| 6                 | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | Intergranular corrosion Test (IGC TEST-Huey Test)  | IS-10461(PART-1)   |
| 7                 | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | PITTING CORROSION TEST   | ASTM G-48 (METHOD-F)   |
| 8                 | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | RESISTANCE TO HYDROGEN INDUCED CRACKING TEST(HIC TEST)   | NACE TM-0284   |
| 9                 | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | RESTANCE TO SULFIDE STRESS CRACKING AND STRESS CORROSION CRACKING IN H2S ENVIRONMENT                       | NACE-TM-0177(METHOD-A )  |
| 10                | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | RESTANCE TO SULFIDE STRESS CRACKING AND STRESS CORROSION CRACKING IN H2S ENVIRONMENT                       | NACE-TM-0177(METHOD-B)   |
| 11                | CHEMICAL- CORROSION TESTS | METALLIC MATERIALS   | STRESS CORROSION CRACKING RESISTANCE TEST  | ASTM G-36  |
| 12                | CHEMICAL- CORROSION TESTS | metallic materials.  | ACETIC ACID SALT SPRAY (AASS)  | ISO 9227   |
| 13                | CHEMICAL- CORROSION TESTS | metallic materials.  | NEUTRAL SALT SPRAY (NSS)   | ISO 9227   |
| 14                | CHEMICAL- CORROSION TESTS | Metals and coated metals   | SALT SPRAY TEST  | ASTM B-117   |
| 15                | CHEMICAL- CORROSION TESTS | NICKEL AND NICKEL ALLOYS   | Intergranular corrosion Test (IGC TEST)  | ISO-9400   |
| 16                | CHEMICAL- CORROSION TESTS | Stainless Steels   | CREVICE CORROSION TEST   | ASTM G-48 (METHOD-B)   |
| 17                | CHEMICAL- CORROSION TESTS | STAINLESS STEELS   | PITTING CORROSION TEST   | ASTM G-48 (METHOD-A)   |



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| 18   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | PITTING CORROSION TEST   | ASTM G-48 (METHOD-C)   |
| 19   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | PITTING CORROSION TEST   | ASTM G-48 (METHOD-D)   |
| 20   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | PITTING CORROSION TEST   | ASTM G-48 (METHOD-E)   |
| 21   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | Resistance to intergranular corrosion (IGC TEST- Monypenny Strauss Test)                                   | IS-10461( PART-2)  |
| 22   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | Resistance to intergranular corrosion (IGC TEST)   | ISO-3651-2   |
| 23   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | Susceptibility to Intergranular Attack in Austenitic Stainless Steels ( IGC PRACTICE-B)                    | ASTM A-262   |
| 24   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | Susceptibility to Intergranular Attack in Austenitic Stainless Steels (IGC PRACTICE-A)                     | ASTM A-262   |
| 25   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | Susceptibility to Intergranular Attack in Austenitic Stainless Steels (IGC PRACTICE-C)                     | ASTM A-262   |
| 26   | CHEMICAL- CORROSION TESTS                         | STAINLESS STEELS                              | Susceptibility to Intergranular Attack in Austenitic Stainless Steels (IGC PRACTICE-E)                     | ASTM A-262   |
| 27   | CHEMICAL- CORROSION TESTS                         | Wrought, Nickel-Rich, Chromium-Bearing Alloys | Intergranular Corrosion Test (IGC TEST- METHOD -A)   | ASTM G-28 (METHOD-A)   |
| 28   | CHEMICAL- CORROSION TESTS                         | Wrought, Nickel-Rich, Chromium-Bearing Alloys | Intergranular Corrosion Test (IGC TEST- METHOD -B)   | ASTM G-28(METHOD -B)   |
| 29   | CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS | ZINC COATED ARTICLES                          | ADHESION TEST  | IS-2629  |
| 30   | CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS | ZINC COATED ARTICLES                          | MASS OF ZINC COATING   | IS-6745  |
| 31   | CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS | ZINC COATED ARTICLES                          | ZINC COATING THICKNESS   | IS-3203 (clause 4.0)   |
| 32   | CHEMICAL- METALS & ALLOYS                         | ALUMINIUM & ITS ALLOYS                        | ANTIMONY   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 33   | CHEMICAL- METALS & ALLOYS                         | ALUMINIUM & ITS ALLOYS                        | ARSENIC  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 34   | CHEMICAL- METALS & ALLOYS                         | Aluminium & its alloys                        | Beryllium  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |



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| 35   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | BISMUTH  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 36   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | BORON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 37   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | CALCIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 38   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | COBALT   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 39   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | COPPER   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 40   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | CROMIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 41   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys       | Gallium  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 42   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | IRON   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00:                                 |
| 43   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | LEAD   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 44   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | LITHIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 45   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | MAGNESIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 46   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | MANGANESE  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 47   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | NICKEL   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 48   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys       | Phosphorus   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 49   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | SILICON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 50   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys       | Sodium   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 51   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | STRONTIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 52   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | TIN  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 53   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS       | TITANIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |



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| 54   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS  | VANADIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 55   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS  | ZINC   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 56   | CHEMICAL- METALS & ALLOYS | ALUMINIUM & ITS ALLOYS  | ZIRCONIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 57   | CHEMICAL- METALS & ALLOYS | Aluminium and its alloys  | Cadmium  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025.  |
| 58   | CHEMICAL- METALS & ALLOYS | Aluminium and its alloys  | SILVER   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025   |
| 59   | CHEMICAL- METALS & ALLOYS | Any form of metallic material of low alloys steels, Stainless steels, Tool steels, Aluminum alloys, Nickel alloys, Copper alloys, Titanium alloys | MATERIAL GRADE VERIFICATION (by analysis of Ti, V, Mn, Ni, Cr, Mo, Cu, Ta, Nb, Cb, Co, Fe, Zn, Sn, Sb, Si, Al, Mg, Zr, Cd, Pb) | ASTM E-1476 (Clause number 7.1)  |
| 60   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | ARSENIC  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 61   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | BISMUTH  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 62   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | CALCIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 63   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | Carbon Equivalent (CE PCM)   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 64   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | Carbon Equivalent (CE)   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 65   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | TIN  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 66   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEEL  | ZINC   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



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| 67   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | ALUMINIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 68   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | ANTIMONY   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 69   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | BORON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 70   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | CARBON   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 71   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | CHROMIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 72   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | COBALT   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 73   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | COPPER   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 74   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | Cu+Ni+Cr+V+Mo  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 75   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | LEAD   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 76   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | MANGANESE  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 77   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | MOLYBDENUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



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| 78   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | NICKEL   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 79   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | NIOBIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 80   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | NITROGEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 81   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | PHOSPOROUS   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 82   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | SILICON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 83   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | SULPHUR  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 84   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | TANTALUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 85   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | TITANIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 86   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | TUNGSTEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 87   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | VANADIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 88   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOY STEELS      | ZIRCONIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



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| 89   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOYS STEELS     | Carbon Equivalent (CE)   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 90   | CHEMICAL- METALS & ALLOYS | CARBON AND ALLOYS STEELS     | Ni+Cr+Mo+Cu  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 91   | CHEMICAL- METALS & ALLOYS | CARON AND ALLOY STEELS       | Carbon Equivalent (CE IIW)   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 92   | CHEMICAL- METALS & ALLOYS | CAST IRON                    | ALUMINIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 93   | CHEMICAL- METALS & ALLOYS | CAST IRON                    | ANTIMONY   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 94   | CHEMICAL- METALS & ALLOYS | CAST IRON                    | ARSENIC  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 95   | CHEMICAL- METALS & ALLOYS | CAST IRON                    | BISMUTH  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 96   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Carbon   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 97   | CHEMICAL- METALS & ALLOYS | CAST IRON                    | CERIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 98   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Chromium   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 99   | CHEMICAL- METALS & ALLOYS | CAST IRON                    | COBALT   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



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| 100  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Copper   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 101  | CHEMICAL- METALS & ALLOYS | CAST IRON                    | LEAD   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 102  | CHEMICAL- METALS & ALLOYS | CAST IRON                    | MAGNESIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 103  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Manganese  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 104  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Molybdenum   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 105  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Nickel   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 106  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Phosphorus   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 107  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Silicon  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 108  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Sulfur   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 109  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Tin  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 110  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Titanium   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MET-HEAT ENGINEERS PVT LTD, 857/2, GIDC INDUSTRIAL ESTATE,  
MAKARPURA, VADODARA, GUJARAT, INDIA

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

**Certificate Number** TC-7726 **Page No** 9 of 41

**Validity** 22/09/2025 to 21/09/2029 **Last Amended on** 28/11/2025

| 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 |
|------|---------------------------|------------------------------|--|--|
| 111  | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Vanadium   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 112  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | ALUMINIUM  | BS EN 15079  |
| 113  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | ANTIMONY   | BS EN 15079  |
| 114  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | ARSENIC  | BS EN 15079  |
| 115  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | BISMUTH  | BS EN 15079  |
| 116  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | CHROMIUM   | BS EN 15079  |
| 117  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | COBALT   | BS EN 15079  |
| 118  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | LEAD   | BS EN 15079  |
| 119  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | MANGANESE  | BS EN 15079  |
| 120  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | NICKEL   | BS EN 15079  |
| 121  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | PHOSPHORUS   | BS EN 15079  |
| 122  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | SILICON  | BS EN-15079  |
| 123  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | SULPHUR  | BS EN 15079  |
| 124  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | TIN  | BS EN 15079  |
| 125  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | ZINC   | BS EN -15079   |
| 126  | CHEMICAL- METALS & ALLOYS | COPPER & ITS ALLOYS          | CADMIUM  | BS-15079   |
| 127  | CHEMICAL- METALS & ALLOYS | Copper & its alloys          | MAGNESIUM  | BS EN 15079  |
| 128  | CHEMICAL- METALS & ALLOYS | Copper & its alloys          | Oxygen   | BS EN 15079  |
| 129  | CHEMICAL- METALS & ALLOYS | Copper & its alloys          | Selenium   | BS EN 15079  |



# National Accreditation Board for Testing and Calibration Laboratories

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

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|------|---------------------------|------------------------------|--|--|
| 130  | CHEMICAL- METALS & ALLOYS | Copper & its alloys          | Silver   | BS EN 15079  |
| 131  | CHEMICAL- METALS & ALLOYS | Copper & its alloys          | Tellurium  | BS EN 15079  |
| 132  | CHEMICAL- METALS & ALLOYS | COPPER AND ITS ALLOYS        | IRON   | BS EN 15079  |
| 133  | CHEMICAL- METALS & ALLOYS | Duplex Stainless Steel       | Pitting Resistance Index Number (PREN)   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 134  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | ALUMINIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 135  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | BORON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 136  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | CARBON   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 137  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | COBALT   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 138  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | COPPER   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 139  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | CROMIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 140  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | IRON   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 141  | CHEMICAL- METALS & ALLOYS | Nickel & its alloys          | Lead   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 142  | CHEMICAL- METALS & ALLOYS | Nickel & its alloys          | Magnesium  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |

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# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :** MET-HEAT ENGINEERS PVT LTD, 857/2, GIDC INDUSTRIAL ESTATE,  
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**Accreditation Standard** ISO/IEC 17025:2017

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| 143  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | MANAGANESE   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 144  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | MOLYBDENUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 145  | CHEMICAL- METALS & ALLOYS | Nickel & its alloys          | Nickel   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 146  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | NIObIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 147  | CHEMICAL- METALS & ALLOYS | Nickel & its alloys          | Nitrogen   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 148  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | PHOSPHOROUS  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 149  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | SILICON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 150  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | SULPHUR  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 151  | CHEMICAL- METALS & ALLOYS | Nickel & its alloys          | Tin  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 152  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | TITANIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 153  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | TUNGSTEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



# National Accreditation Board for Testing and Calibration Laboratories

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|------|---------------------------|------------------------------|--|--|
| 154  | CHEMICAL- METALS & ALLOYS | NICKEL & ITS ALLOYS          | VANADIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 155  | CHEMICAL- METALS & ALLOYS | Nickel & its alloys          | Zirconium  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 156  | CHEMICAL- METALS & ALLOYS | Nickel and its alloys        | Tantalum   | MHEPL/WI/C-01, Issue Date-01.04.2025, Revision No.00   |
| 157  | CHEMICAL- METALS & ALLOYS | Nickel and its alloys        | Tin  | MHEPL/WI/C-01, Issue Date-01.04.2025, Revision No.00   |
| 158  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | ALUMINIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 159  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | ANTIMONY   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 160  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | ARSENIC  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 161  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | BORON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00: 2025                            |
| 162  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | CALCIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 163  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | CARBON   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 164  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | CHROMIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 165  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | COBALT   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



# National Accreditation Board for Testing and Calibration Laboratories

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| 166  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | COPPER   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 167  | CHEMICAL- METALS & ALLOYS | Stainless steel              | Ferrite Number (FN)  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 168  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | LEAD   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 169  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | MANGANESE  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 170  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | MOLYBDENUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 171  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | NICKEL   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 172  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | NIObIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 173  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | NITROGEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 174  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | PHOSPHOROUS  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 175  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | SILICON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 176  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | SULPHUR  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



# National Accreditation Board for Testing and Calibration Laboratories

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| 177  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | TANTALUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 178  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | TIN  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 179  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | TITANIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 180  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | TUNGSTEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 181  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | VANADIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 182  | CHEMICAL- METALS & ALLOYS | STAINLESS STEEL              | ZIRCONIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 183  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Aluminum   | ASTM E-2994  |
| 184  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Carbon   | ASTM E-2994  |
| 185  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Chromium   | ASTM E-2994  |
| 186  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Copper   | ASTM E-2994  |
| 187  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Iron   | ASTM E-2994  |
| 188  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Manganese  | ASTM E-2994  |
| 189  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Molybdenum   | ASTM E-2994  |
| 190  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Nickel   | ASTM E-2994  |
| 191  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Silicon  | ASTM E-2994  |
| 192  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Tin  | ASTM E-2994  |

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# National Accreditation Board for Testing and Calibration Laboratories

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| 193  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Vanadium   | ASTM E-2994  |
| 194  | CHEMICAL- METALS & ALLOYS | Titanium and Titanium alloys | Zirconium  | ASTM E-2994  |
| 195  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | ALUMINIUM  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 196  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | ARSENIC  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 197  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | CARBON   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 198  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | CHROMIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 199  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | COBALT   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 200  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | COPPER   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 201  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | MANGANESE  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 202  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | MOLYBDENUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 203  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | NICKEL   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 204  | CHEMICAL- METALS & ALLOYS | TOOL STEEL                   | NITROGEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |



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| 205  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | PHOSPHOROUS  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 206  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | SILICON  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 207  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | SULPHUR  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 208  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | TIN  | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 209  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | TITANIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 210  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | TUNGSTEN   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 211  | CHEMICAL- METALS & ALLOYS                   | TOOL STEEL                                 | VANADIUM   | MHEPL/WI/C-01, Issue No.-01, Issue Date-01.04.2025, Revision No.-00                                  |
| 212  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS                  | PROOF STRENGTH   | IS-3600(PART-2)  |
| 213  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                     | MICROINDENTATION HARDNESS TEST (HV-1)  | ASTM E-384   |
| 214  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | ALL FERROUS MATERIALS, ALLOYS AND PRODUCTS | YIELD STRENGTH   | API-1104   |
| 215  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | ALL FERROUS METALS AND ALLOYS              | CHARPY V NOTCH IMPACT TEST (AT PLUS 300 DEGREE TO MINUS 196 DEGREE CENTIGRADE)                             | ASTM A-370   |
| 216  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | All ferrous metals and alloys              | REDUCTION IN AREA  | API-1104   |



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|------|---|------------------------------|--|--|
| 217  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL FILLET WELD JOINTS       | FRACTURE TEST  | ASME BPVC II C   |
| 218  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL FILLET WELD JOINTS       | FRACTURE TEST  | AWS B4.0   |
| 219  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | LATERAL EXPANSION  | ASTM E23   |
| 220  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | SHEAR AREA   | IS-1757 PART-1   |
| 221  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | SHEAR AREA   | ISO-148 PART-1   |
| 222  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | CONVERSIONS OF HARDNESS<br>VALUES  | IS-4258  |
| 223  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | FRACTURE APPEARANCE  | ASTM E23   |
| 224  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | FRACTURE APPEARANCE  | IS-1757 PART-1   |
| 225  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | FRACTURE APPEARANCE  | ISO 148 PART-1   |
| 226  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | LATERAL EXPANSION  | IS-1757 PART-1   |
| 227  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | LATERAL EXPANSION  | ISO-148 PART-1   |
| 228  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | SHEAR AREA   | ASTME23  |
| 229  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIALS        | TENSILE STRENGTH   | ASTM E-8   |
| 230  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALIC MATERIAL         | CHARPY V NOTCH IMPACT TEST<br>(AT PLUS 300 DEGREE TO<br>MINUS 196 DEGREE<br>CENTIGRADE)                    | IS-1757(PART-1)  |



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

MET-HEAT ENGINEERS PVT LTD, 857/2, GIDC INDUSTRIAL ESTATE,  
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|------|--|------------------------------------|--|--|
| 231  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIAL              | CHARPY V NOTCH IMPACT TEST (AT PLUS 300 DEGREE TO MINUS 196 DEGREE CENTIGRADE)                             | ISO-148-1  |
| 232  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS TUBES/PIPES | FLATTENING TEST  | ASTM A-1016  |
| 233  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All Metallic Materials             | Surface Roughness (Ra)   | ASTM D4417   |
| 234  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All Metallic Materials             | Surface Roughness (Ra)   | IS-3073  |
| 235  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | % ELONGATION   | IS-3600 Part-3   |
| 236  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | % ELONGATION   | ISO-6892-1   |
| 237  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | BEND TEST  | ASME BPVC II C   |
| 238  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | BEND TEST  | ASTM E-190   |
| 239  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | BEND TEST  | AWS B4.0   |
| 240  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | BEND TEST  | AWS D1.1   |
| 241  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL Metallic materials             | BEND TEST  | ISO-7438   |
| 242  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All Metallic Materials             | Brinell Hardness Test  | ISO-6506-1   |
| 243  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL Metallic Materials             | Brinell Hardness Test  | ISO-6506-1   |
| 244  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS             | BRINELL HARDNESS TEST  | ASTM E-10  |



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| 245  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | BRINELL HARDNESS TEST  | ASTM E-10  |
| 246  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | BRINELL HARDNESS TEST  | IS-1500(Part-1)  |
| 247  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | BRINELL HARDNESS TEST  | IS-1500(Part-1)  |
| 248  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | CHARPY V NOTCH IMPACT TEST<br>(AT PLUS 300 DEGREE TO<br>MINUS 196 DEGREE<br>CENTIGRADE)                              | ASTM E-23  |
| 249  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSILE STRENGTH (AT 50<br>DEGREES CENTIGRADE TO 700<br>DEGREES CENTIGRADE)                  | ASTM E-21  |
| 250  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSION TEST--% ELONGATION<br>(AT 50 DEGREES CENTIGRADE<br>TO 700 DEGREES<br>CENTIGRADE)     | ASTM E-21  |
| 251  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE -<br>Yield Strength (AT 50 DEGREES<br>CENTIGRADE TO 700 DEGREES<br>CENTIGRADE)                  | ISO-6892-2   |
| 252  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE -<br>PROOF STRENGTH (AT 50<br>DEGREES CENTIGRADE TO 700<br>DEGREES CENTIGRADE)                  | ASTM E21   |
| 253  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSILE STRENGTH (AT 50<br>DEGREES CENTIGRADE TO 700<br>DEGREES CENTIGRADE)                  | ISO-6892-2   |
| 254  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSION TEST- % ELONGATION<br>(AT 50 DEGREES CENTIGRADE<br>TO 700 DEGREES<br>CENTIGRADE)     | ISO-6892-2   |
| 255  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSION TEST- % REDUCTION<br>AREA (AT 50 DEGREES<br>CENTIGRADE TO 700 DEGREES<br>CENTIGRADE) | ISO-6892-2   |



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| 256  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSION TEST--% REDUCTION<br>AREA (AT 50 DEGREES<br>CENTIGRADE TO 700 DEGREES<br>CENTIGRADE) | ASTM E-21  |
| 257  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE-<br>PROOF STRENGTH (AT 50<br>DEGREES CENTIGRADE TO 700<br>DEGREES CENTIGRADE)                   | ISO-6892-2   |
| 258  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELEVATED TEMPERATURE<br>TENSION TEST-YIELD<br>STRENGTH (AT 50 DEGREES<br>CENTIGRADE TO 700 DEGREES<br>CENTIGRADE)    | ASTM E-21  |
| 259  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | API-1104   |
| 260  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | ASME SA-370  |
| 261  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | ASTM E-8   |
| 262  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | ASTM E-8M  |
| 263  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | BS-EN-10002-1  |
| 264  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | EN-15614-1-  |
| 265  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | IS-1608(PART-1)  |
| 266  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | ISO/EN 4136  |
| 267  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ELONGATION   | ISO-5178(E)  |
| 268  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | FLARING TEST   | ASTM A-1016  |



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| 269  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | IZOD IMPACT TEST   | IBR REG 1950 ADN   |
| 270  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | IZOD IMPACT TEST   | IS-1598  |
| 271  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | MACRO TEST   | API 1104   |
| 272  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | MICROINDENTATION<br>HARDNESS TEST (HV-0.1)   | ASTM E-384   |
| 273  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | MICROINDENTATION<br>HARDNESS TEST (HV-0.3)   | ASTM E-384   |
| 274  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | MICROINDENTATION<br>HARDNESS TEST (HV-0.5)   | ASTM E-384   |
| 275  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All metallic materials       | PROOF STRENGTH   | ASTM E-8   |
| 276  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All metallic materials       | PROOF STRENGTH   | ISO-5178   |
| 277  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All Metallic materials       | PROOF STRENGTH   | ISO-6892-1   |
| 278  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | PULL OUT TEST  | ASME SECTION -VIII DIVISION-1  |
| 279  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | REDUCTION AREA   | IS-3600 Part-3   |
| 280  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All metallic materials       | REDUCTION IN AREA  | EN-15614-1   |
| 281  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All Metallic Materials       | Rockwell Hardness Test (HRC)   | ISO-6508-1   |
| 282  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All Metallic Materials       | Rockwell Hardness Test<br>(HRBW)   | ISO-6508-1   |



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| 283  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ROCKWELL HARDNESS TEST<br>(HRBW)   | IS-1586(PART-1)  |
| 284  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ROCKWELL HARDNESS TEST<br>(HRC)  | ASTM E-18  |
| 285  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ROCKWELL HARDNESS TEST<br>(HRC)  | IS-1586(PART-1)  |
| 286  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | ROCKWELL HARDNESS<br>TEST(HRBW)  | ASTM E-18  |
| 287  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All Metallic Materials       | Surface Roughness (Ra)   | ISO 3274   |
| 288  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | Tear Test  | ASME SEC VIII DIV-1  |
| 289  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | Tear Test  | ASME SEC-IX  |
| 290  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | TENSILE STRENGTH   | ASTM -E8M  |
| 291  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All metallic materials       | TENSILE STRENGTH   | EN-15614-1   |
| 292  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | TENSILE STRENGTH   | ISO-3600 Part-3  |
| 293  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | VICKERS HARDNESS TEST<br>(HV-10)   | ASTM E-92  |
| 294  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | VICKERS HARDNESS TEST<br>(HV-10)   | ISO-9015-1   |
| 295  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | All Metallic Materials       | Vickers Hardness Test (HV-5)   | ISO-6507-1   |
| 296  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | ALL METALLIC MATERIALS       | VICKERS HARDNESS TEST<br>(HV-5)  | IS-1501(PART-1)  |



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| 297  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | VICKERS HARDNESS TEST(HV-10)   | IS-1501 PART-1   |
| 298  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | VICKERS HARDNESS TEST(HV-5)  | ASTM E-92  |
| 299  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | VICKERS HARDNESS TEST(HV-5)  | ISO-9015-1   |
| 300  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All Metallic Materials                 | Vickers Harness Test (HV-10)   | ISO-6507-1   |
| 301  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | YIELD STRENGTH   | ASME SECTION-IX  |
| 302  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | YIELD STRENGTH   | ASTM E-8M  |
| 303  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | YIELD STRENGTH   | AWS D1.1   |
| 304  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | YIELD STRENGTH   | ISO-4136(E)  |
| 305  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS                 | YIELD STRENGTH   | ISO-6892-1   |
| 306  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS-TUBES AND PIPES | DRIFT EXPANSION TEST   | BS-EN-ISO-8493   |
| 307  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS-TUBES AND PIPES | DRIFT EXPANSION TEST   | IS-2335  |
| 308  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALLIC MATERIALS-TUBES AND PIPES | FLARING TEST   | BS-EN-ISO-8493   |
| 309  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL METALS-TUBES AND PIPES             | FLARING TEST   | IS-2335  |
| 310  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL STEEL PRODUCTS                     | CHARPY V NOTCH IMPACT TEST (AT PLUS 300 DEGREE TO MINUS 196 DEGREE CENTIGRADE)                             | ASME SA-370  |



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| 311  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL STEEL PRODUCTS              | REDUCTION IN AREA FOR THROUGH THICKNESS TENSION TEST   | SA-770   |
| 312  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL WELD JOINTS                 | NICK BREAK TEST  | API 1104   |
| 313  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | ALL WELDED METALLIC MATERIALS   | YIELD STRENGTH   | AWS B4.0   |
| 314  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All welding and brazing samples | PROOF STRENGTH   | ASME SECTION-IX  |
| 315  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All welding and brazing samples | REDUCTION IN AREA  | ASME SECTION-IX  |
| 316  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | All welding and brazing samples | TENSILE STRENGTH   | ASME SECTION-IX  |
| 317  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLT/STUDS                      | YIELD STRENGTH   | IS-1367 PART-3   |
| 318  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | PROOF LOAD TEST  | ASTM F606  |
| 319  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | PROOF LOAD TEST  | ISO-898-1  |
| 320  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | WEDGE LOAD TEST  | ASME SA-370  |
| 321  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | WEDGE LOAD TEST  | ASTM A-370   |
| 322  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | WEDGE LOAD TEST  | ASTM F606  |
| 323  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | WEDGE LOAD TEST  | IS-1367(PART-3)  |
| 324  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | BOLTS                           | WEDGE LOAD TEST  | ISO-898-1  |



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| 325  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS / STUDS                | ELONGATION   | ASTM F606  |
| 326  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS / STUDS                | REDUCTION AREA   | ASTM F606  |
| 327  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | FULL SIZE BREAKING   | ISO-898-1  |
| 328  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | FULL SIZE BREAKING TEST  | ASME SA-370  |
| 329  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | FULL SIZE BREAKING TEST  | ASTM A-370   |
| 330  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | FULL SIZE BREAKING TEST  | IS-1367(PART-3)  |
| 331  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | PROOF LOAD TEST  | ASME SA-370  |
| 332  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | PROOF LOAD TEST  | ASTM A-370   |
| 333  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | PROOF LOAD TEST  | IS-1367(PART-3)  |
| 334  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS AND STUDS              | PROOF LOAD TEST  | ISO-898-1  |
| 335  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS       | ELONGATION   | IS-1367 PART-3   |
| 336  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS       | ELONGATION   | ISO 898-1  |
| 337  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS       | REDUCTION AREA   | ISO 898-1  |
| 338  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS       | PROOF STRENGTH   | IS-1367 PART-3   |



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| 339  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS                        | PROOF STRENGTH   | ISO 898-1  |
| 340  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS                        | REDUCTION AREA   | IS-1367 PART-3   |
| 341  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS                        | TENSILE STRENGTH   | IS-1367 PART-3   |
| 342  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS                        | TENSILE STRENGTH   | ISO 898-1  |
| 343  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS,STUDS AND SCREWS                        | YIELD STRENGTH   | ISO 898-1  |
| 344  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | BOLTS/STUDS                                   | FULL SIZE BREAKING LOAD  | ASTM F606  |
| 345  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | COPPER TUBES                                  | FLARING TEST   | ASTM B-111   |
| 346  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | COPPER TUBES AND PIPES                        | FLATTENING TEST  | ASTM B-111   |
| 347  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | CRIMPED JOINTS                                | PULL LOAD TEST   | MHEPL/WI/M-01G, Issue No.-01,Issue Date-01.04.2025   |
| 348  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Externally and Internally Threaded Fasteners, | PROOF STRENGTH   | ASTM F606  |
| 349  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Externally and Internally Threaded Fasteners, | TENSILE STRENGTH   | ASTM F606  |
| 350  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Externally and Internally Threaded Fasteners, | YIELD STRENGTH   | ASTM F606  |
| 351  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERAILS, ALLOYS AND PRODUCTS        | TENSILE STRENGTH   | API-1104   |
| 352  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERAILS, ALLOYS AND PRODUCTS        | TENSILE STRENGTH   | ISO-4136   |



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| 353  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ,ALLOYS & PRODUCTS  | REDUCTION IN AREA  | IBR REG 1950 ADN   |
| 354  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ,ALLOYS & PRODUCTS  | REDUCTION IN AREA  | IS-1608(PART-1)  |
| 355  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ,ALLOYS & PRODUCTS  | REDUCTION IN AREA  | ISO-4136(E)  |
| 356  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ,ALLOYS & PRODUCTS  | REDUCTION IN AREA  | ISO-5178(E)  |
| 357  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ,ALLOYS & PRODUCTS  | REDUCTION IN AREA  | ISO-6892-1   |
| 358  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ,ALLOYS & PRODUCTS  | TENSILE STRENGTH   | ISO-6892-1   |
| 359  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ALLOYS AND PRODUCTS | PROOF STRENGTH   | API-1104   |
| 360  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ALLOYS AND PRODUCTS | PROOF STRENGTH   | ASME SA-370  |
| 361  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS ALLOYS AND PRODUCTS | PROOF STRENGTH   | IS-1608(PART-1)  |
| 362  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Ferrous materials, alloys & products  | BEND TEST  | API-1104   |
| 363  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS, ALLOYS & PRODUCTS  | YIELD STRENGTH   | IS-3600 Part-4   |
| 364  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Ferrous materials,alloys & products   | PROOF STRENGTH   | EN-15614-1   |
| 365  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS,ALLOYS & PRODUCTS   | REDUCTION IN AREA  | ASTM E-8M  |
| 366  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS,ALLOYS AND PRODUCTS | ELONGATION   | ASTM A-370   |



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| 367  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS,ALLOYS AND PRODUCTS | REDUCTION IN AREA  | ASTM A-370   |
| 368  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS,ALLOYS AND PRODUCTS | REDUCTION IN AREA  | ASTM E-8   |
| 369  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS,ALLOYS AND PRODUCTS | TENSILE STRENGTH   | IBR REG 1950 ADN   |
| 370  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | FERROUS MATERIALS,ALLOYS AND PRODUCTS | YIELD STRENGTH   | EN-15614-1   |
| 371  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALIC MATERIALS                     | CONVERSIONS OF HARDNESS<br>VALUES  | ASME SA-370  |
| 372  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALIC MATERIALS                     | CONVERSIONS OF HARDNESS<br>VALUES  | ASTM A-370   |
| 373  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALIC MATERIALS                     | CONVERSIONS OF HARDNESS<br>VALUES  | ISO-18265  |
| 374  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALLIC MATERIALS TUBE S/PIPES       | FLATTENING TEST  | ASME SA-530  |
| 375  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALLIC MATERIALS TUBES/PIPES        | FLATTENING TEST  | API-5L   |
| 376  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALLIC MATERIALS TUBES/PIPES        | FLATTENING TEST  | ASTM A-530M  |
| 377  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALLIC MATERIALS TUBES/PIPES        | FLATTENING TEST  | BS EN ISO 8492(E)  |
| 378  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALLIC MATERIALS                    | BEND TEST  | API-1104   |
| 379  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | METALLIC MATERIALS                    | BEND TEST  | ASME E-190   |
| 380  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Metallic materials                    | BEND TEST  | ASME SA-370  |



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|------|--|------------------------------|--|--|
| 381  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | ASME SECTION-IX  |
| 382  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic materials           | BEND TEST  | ASTM A-370   |
| 383  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | AWS D1.1   |
| 384  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | IBR REG 1950 ADN   |
| 385  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | IBR REG 1950 ADN   |
| 386  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | IS-1599  |
| 387  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | IS-3600(PART-5)  |
| 388  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | ISO-5173   |
| 389  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | BEND TEST  | ISO-5173-02  |
| 390  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | CHARPY V NOTCH IMPACT TEST (AT PLUS 300 DEGREE TO MINUS 196 DEGREE CENTIGRADE)                             | EN-ISO-9016  |
| 391  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Conversions of Hardness Values   | ASTM E-140: 12B  |
| 392  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | API-1104   |
| 393  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | AWS B 4.0  |
| 394  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | AWS D1.1   |



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| 395  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | IBR REG 1950 ADN   |
| 396  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | IS-2825(Ra-2022)   |
| 397  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | IS-3600(PART-3)  |
| 398  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | ISO-4136(E)  |
| 399  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | ELONGATION   | ISO-5178(E)  |
| 400  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | PROOF STRENGTH   | ASTM E-8M  |
| 401  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | API-1104   |
| 402  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | ASME SECTION-IX  |
| 403  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | AWS B 4.0  |
| 404  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | AWS D1.1   |
| 405  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | IBR REGU 1950 ADN  |
| 406  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | IS-2825(Ra-2022)   |
| 407  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | IS-3600(PART-3)  |
| 408  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | ISO-4136(E)  |



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| 409  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | REDUCTION IN AREA  | ISO-5178(E)  |
| 410  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | API-1104   |
| 411  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | ASME SECTION-IX  |
| 412  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | AWS B 4.0  |
| 413  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | AWS D1.1   |
| 414  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | IS-1608(PART-1)  |
| 415  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | IS-2825  |
| 416  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | IS-3600(PART-3)  |
| 417  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | ISO-4136(E)  |
| 418  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | TENSILE STRENGTH   | ISO-5178   |
| 419  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | YIELD STRENGTH   | API-1104   |
| 420  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic materials           | YIELD STRENGTH   | ASTM E-8   |
| 421  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | YIELD STRENGTH   | IBR REG 1950 ADN   |
| 422  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS           | YIELD STRENGTH   | IS-1608(PART-1)  |



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| 423  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS                     | YIELD STRENGTH   | IS-2825  |
| 424  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS                     | YIELD STRENGTH   | IS-3600 Part-3   |
| 425  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS                     | YIELD STRENGTH   | IS-3600(PART-3)  |
| 426  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS                     | YIELD STRENGTH   | ISO-5178(E)  |
| 427  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS -PIPES AND TUBES    | FLARING TEST   | ASME SA-370  |
| 428  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic materials-PIPES               | BEND TEST  | IS-2329  |
| 429  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS-PIPES AND TUBES     | BEND TEST  | IS-1239(PART-1)  |
| 430  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS-PIPES AND TUBES     | FLATTENING TEST  | ASME SA-370  |
| 431  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | METALLIC MATERIALS-PIPES/TUBES         | FLAIRING TEST  | ASTM A-370   |
| 432  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic materials-TMT BARS            | BEND TEST  | IS-1786  |
| 433  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NON FERROUS ALLYS-ALUMINUM             | REDUCTION IN AREA  | ASTM B-557   |
| 434  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NON FERROUS METALS -ALUMINUM           | TENSILE STRENGTH   | ASTM B-557   |
| 435  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NON FERROUS METALS AND ALLOYS          | YIELD STRENGTH   | ASTM B-557   |
| 436  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NON FERROUS METALS AND ALLOYS-ALUMINUM | ELONGATION   | ASTM B-557   |



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| 437  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NON FERROUS METALS AND ALLOYS-ALUMINUM                         | PROOF STRENGTH   | ASTM B-557   |
| 438  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NUTS   | PROOF LOAD TEST  | ASME SA-370  |
| 439  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NUTS   | PROOF LOAD TEST  | ASTM A-370   |
| 440  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NUTS   | PROOF LOAD TEST  | ASTM F606  |
| 441  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NUTS   | PROOF LOAD TEST  | IS-1367(PART-6)  |
| 442  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | NUTS   | PROOF LOAD TEST  | ISO 898-2  |
| 443  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | PIPES AND TUBES  | DRIFT EXPANSION TEST   | ASME SA-370  |
| 444  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | PIPES AND TUBES  | DRIFT EXPANSION TEST   | ASTM A-370   |
| 445  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | PIPES AND TUBES  | FLATTENING TEST  | ASME SA-450  |
| 446  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | PIPES AND TUBES  | FLATTENING TEST  | IS-2328  |
| 447  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | PIPES AND TUBES  | FLATTENING TEST  | IS-3589  |
| 448  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STAINLESS STEEL CALDDED PLATE ON CARBON AND ALLOY STEEL PLATES | Shear Strength Test  | ASTM A263  |
| 449  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STAINLESS STEEL CALDDED PLATE ON CARBON AND ALLOY STEEL PLATES | Shear Strength Test  | ASTM A264  |
| 450  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STAINLESS STEEL CALDDED PLATE ON CARBON AND ALLOY STEEL PLATES | Shear Strength Test  | ASTM A265  |



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| 451  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel                        | Drop-Weight Test   | ASTM E-208   |
| 452  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | PROOF STRENGTH   | ASTM A-370   |
| 453  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | PROOF STRENGTH   | IBR REG 1950 ADN   |
| 454  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | TENSILE STRENGTH   | ASME SA-370  |
| 455  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | TENSILE STRENGTH   | ASTM A-370   |
| 456  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | YIELD STRENGTH   | ASME SA-370  |
| 457  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | YIELD STRENGTH   | ASTM A-370   |
| 458  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | YIELD STRENGTH   | IBR REG 1950 ADN   |
| 459  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | % ELONGATION   | IS-3600 Part-4   |
| 460  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | BEND TEST  | ASTM E-290   |
| 461  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | ELONGATION   | IS-7307 Part-1   |
| 462  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | PROOF STRENGTH   | IS-3600 Part-3   |
| 463  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | PROOF STRENGTH   | IS-3600 Part-4   |
| 464  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | PROOF STRENGTH   | IS-7307 Part-1   |



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| 465  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | REDUCTION AREA   | IS-3600 Part-4   |
| 466  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | REDUCTION AREA   | IS-7307 Part-1   |
| 467  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | REDUCTION IN AREA  | ASME SA-370  |
| 468  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | REDUCTION IN AREA FOR THROUGH THICKNESS TENSION TEST   | EN-10164   |
| 469  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | REDUCTION IN AREA FOR THROUGH THICKNESS TENSION TEST   | ISO-7778   |
| 470  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | TENSILE STRENGTH   | IS-3600 Part-4   |
| 471  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | TENSILE STRENGTH   | IS-7307 Part-1   |
| 472  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | STEEL PRODUCTS               | YIELD STRENGTH   | IS-7307 Part-1   |
| 473  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TMT BARS/BARS                | MASS PER METER   | IS-1786  |
| 474  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TMT BARS/BARS                | REBEND TEST  | IS-1786  |
| 475  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES AND PIPES              | DRIFT EXPANSION TEST   | ASTM A-1016  |
| 476  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES AND PIPES              | DRIFT EXPANSION TEST   | ASTM B-111   |
| 477  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES/PIPES                  | FLATTENING TEST  | ASTM A-370   |
| 478  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES/PIPES                  | FLATTENING TEST  | ASTM A-450   |



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| 479  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES/PIPES                  | FLATTENING TEST  | ASTM A-530   |
| 480  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES/PIPES                  | FLATTENING TEST  | ASTM A-999   |
| 481  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | TUBES/PIPES                  | FLATTENING TEST  | IS-1239(PART-1)  |
| 482  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WASHER/SPRING WASHER         | PERMANENT LOAD TEST  | IS-3063  |
| 483  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WASHER/SPRING WASHER         | PERMANENT SET TEST   | IS-3063  |
| 484  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WASHER/SPRING WASHER         | TWIST TEST   | IS-3063  |
| 485  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | FRACTURE TEST  | ASME SECTION-IX  |
| 486  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | FRACTURE TEST  | AWS D1.1   |
| 487  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | FRACTURE TEST  | BS-EN-ISO-9017(E)  |
| 488  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | FRACTURE TEST  | EN-1320  |
| 489  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | FRACTURE TEST  | IBR REG 1950 ADN   |
| 490  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | FRACTURE TEST  | IS-3600(PART-8)  |
| 491  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | NICK BREAK TEST  | AWS D1.1   |
| 492  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | NICK BREAK TEST  | DIN-EN-1320  |



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| 493  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | NICK BREAK TEST  | IBR REG 1950 ADN   |
| 494  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | NICK BREAK TEST  | IS-2825  |
| 495  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED ITEMS                 | NICK BREAK TEST  | IS-3600(PART-8)  |
| 496  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIAL     | Leak Path Test   | ASME SEC VIII DIV-1  |
| 497  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | API-1104   |
| 498  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | ASME SEC-IX  |
| 499  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | AWS B4.0   |
| 500  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | AWS D1.1   |
| 501  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | IBR REG 1950 ADN   |
| 502  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | IS-2825  |
| 503  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | ISO-4136(E)  |
| 504  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | PROOF STRENGTH   | ISO-5178(E)  |
| 505  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | TENSILE STRENGTH   | IBR REGU 1950 ADN  |
| 506  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS    | YIELD STRENGTH   | ASME SECTION-IX  |



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| 507  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS              | YIELD STRENGTH   | ISO-4136(E)  |
| 508  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | WELDED METALLIC MATERIALS              | YIELD STRENGTH   | ISO-5178(E)  |
| 509  | MECHANICAL-METALLOGRAPHY TEST              | Low Hydrogen Welding Electrodes        | Diffusible Hydrogen  | ISO 3690   |
| 510  | MECHANICAL-METALLOGRAPHY TEST              | Low Hydrogen Welding Electrodes        | Diffusible Hydrogen  | AWS A4.3   |
| 511  | MECHANICAL-METALLOGRAPHY TEST              | ALL PARENT AND WELD METALLIC MATERIALS | MICRO STRUCTURE EXAMINATION  | ASM HANDBOOK VOLUME -9   |
| 512  | MECHANICAL-METALLOGRAPHY TEST              | ALL PARENT AND WELD METALLIC MATERIALS | Microetching Metals and Alloys   | ASTM E-407   |
| 513  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS MATERIAL                   | DECARBURIZATION DEPTH MEASUREMENT  | ISO-3887   |
| 514  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS MATERIALS                  | DECARBURIZATION DEPTH MEASUREMENT  | ASTM E-1077  |
| 515  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS MATERIALS                  | DECARBURIZATION DEPTH MEASUREMENT  | IS-6396  |
| 516  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS MATERIALS                  | INCLUSION RATING   | ASTM E-45 METHOD-A   |
| 517  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS MATERIALS                  | INCLUSION RATING   | IS-4163(METHOD-A)  |
| 518  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS MATERIALS                  | MICRO STRUCTURE EXAMINATION  | ASTM E-1351-01   |
| 519  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS METAL                      | GRAIN SIZE MEASUREMENT   | ASTM E-1382  |
| 520  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS METAL                      | GRAIN SIZE MEASUREMENT   | IS-4748  |
| 521  | MECHANICAL-METALLOGRAPHY TEST              | ANY FERROUS METAL                      | INCLUSION CONTENT TEST   | ASTM E-1245-03   |
| 522  | MECHANICAL-METALLOGRAPHY TEST              | Bolts/Screws and Studs                 | DECARBURIZATION DEPTH MEASUREMENT  | IS-1367(PART-3)  |
| 523  | MECHANICAL-METALLOGRAPHY TEST              | case hardened sintered ferrous metals  | CASE DEPTH MEASUREMENT   | ISO-4507   |



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| 524  | MECHANICAL-METALLOGRAPHY TEST | CAST IRONS   | DESIGNATION OF MICROSTRUCTURE OF GRAPHITE IN CAST IRON 1. GRAPHITE FORM,FIGURE-1 2. GRAPHITE DISTRUBUTION,FIGURE-2, 3.DIMENSION OF GRAPHITE,FIGURE-3 | IS-7754  |
| 525  | MECHANICAL-METALLOGRAPHY TEST | CAST IRONS   | EVALUATION OF GRAPHITE IN IRON CASTINGS 1) GRAPHITE FLAKE TYPE ,PLATE-I 2) GRAPHITE FOAM TYPE,PLATE-I 3) GRAPHITE SIZE,PLATE-II                      | ASTM A-247   |
| 526  | MECHANICAL-METALLOGRAPHY TEST | CAST IRONS   | MICRO STRUCTURE EXAMINATION  | ISO-945-1(E)   |
| 527  | MECHANICAL-METALLOGRAPHY TEST | CAST IRONS   | VOLUME FRACTION/PHASE CONSTITUENTS---- FOR CAST IRON FOR, % FERRITE ,%PEARLITE,%NODULARITY,NO DULE COUNT   | ASTM E-562   |
| 528  | MECHANICAL-METALLOGRAPHY TEST | Copper and alloys in any form  | GRAIN SIZE MEASUREMENT   | ASTM E-112   |
| 529  | MECHANICAL-METALLOGRAPHY TEST | Copper and Copper Alloys   | GRAIN SIZE MEASUREMENT   | IS-18829   |
| 530  | MECHANICAL-METALLOGRAPHY TEST | Copper and Copper Alloys   | GRAIN SIZE MEASUREMENT   | ISO-2624   |
| 531  | MECHANICAL-METALLOGRAPHY TEST | DUPLEX STAINLESS STEEL   | VOLUME FRACTION/PHASE CONSTITUENTS ---FOR DUPLEX STAINLESS STEEL, % OF AUSTENITE AND % OF FERRITE  | ASTM E-562   |
| 532  | MECHANICAL-METALLOGRAPHY TEST | DUPLEX STAINLESS STEELS  | DETERMINATION OF INTER METALLIC PHASE IN DUPLEX STAINLESS STEEL  | ASTM A-923 METHOD-A  |
| 533  | MECHANICAL-METALLOGRAPHY TEST | DUPLEX STAINLESS STEELS  | DETERMINATION OF INTERMETALLIC PHASE IN DUPLEX STAINLESS STEELS  | ISO-17781  |
| 534  | MECHANICAL-METALLOGRAPHY TEST | Low Hydrogen Welding Electrodes  | Diffusible Hydrogen  | IS-11802   |
| 535  | MECHANICAL-METALLOGRAPHY TEST | Metallic coatings, oxide layers, and porcelain or vitreous enamel coatings | COATING THICKNESS MEASUREMENT  | ISO-1463   |
| 536  | MECHANICAL-METALLOGRAPHY TEST | Metallic material  | GRAIN SIZE MEASUREMENT   | ASTM E-112   |
| 537  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS   | CASE DEPTH MEASUREMENT   | IS-6416  |



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| 538  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | COATING/PLATING THICKNESS MEASUREMENT  | ASTM B-487   |
| 539  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | FERRITE NUMBER MEASUREMENT BY FERRITSCOPE  | ISO-8249   |
| 540  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | FERRITE PERCENTAGE MEASUREMENT BY FERRITSCOPE  | ASTM A-800   |
| 541  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | FERRITE PERCENTAGE MEASUREMENT BY FERRITSCOPE  | ISO-8249   |
| 542  | MECHANICAL-METALLOGRAPHY TEST | Metallic materials           | INCLUSION RATING   | ASTM E-45 METHOD-D   |
| 543  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | INCLUSION RATING TEST  | ISO-4967   |
| 544  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | MACRO EXAMINATION  | ASM HANDBOOK VOLUME -9   |
| 545  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | MACRO EXAMINATION  | ASTM E-340   |
| 546  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | MACRO EXAMINATION  | ASTM E-381   |
| 547  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | MACRO EXAMINATION  | EN-ISO-17639   |
| 548  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | MAGNETIC PERMEABILITY  | ASTM A-342 METHOD-3  |
| 549  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | MICRO STRUCTURE EXAMINATION  | EN-ISO-17639   |
| 550  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | VOLUME FRACTION/PHASE CONSTITUENTS-- FOR CARBON STEEL , % OF FERRITE AND % OF PEARLITE                     | ASTM E-562   |
| 551  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | VOLUME FRACTION/PHASE CONSTITUENTS---- FOR DUPLEX STAINLESS STEEL, % OF AUSTENITE AND % OF FERRITE         | ASTM E-1245-3  |
| 552  | MECHANICAL-METALLOGRAPHY TEST | METALLIC MATERIALS           | VOLUME FRACTION/PHASE CONSTITUENTS ---- % POROSITY   | ASTM E-562   |
| 553  | MECHANICAL-METALLOGRAPHY TEST | STAINLESS STEELS             | FERRITE NUMBER MEASUREMENT BY FERRITSCOPE  | ASTM A-800   |
| 554  | MECHANICAL-METALLOGRAPHY TEST | STEEL FASTNERS               | DECARBURIZATION DEPTH MEASUREMENT  | ISO 898-1  |

**This is annexure to 'Certificate of Accreditation' and does not require any signature.**



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| 555  | MECHANICAL-METALLOGRAPHY TEST | Steel Products               | GRAIN SIZE MEASUREMENT   | ISO-643  |
| 556  | MECHANICAL-METALLOGRAPHY TEST | Steel Products               | MACRO EXAMINATION  | IS-11371   |
| 557  | MECHANICAL-METALLOGRAPHY TEST | WELDED Metallic materials    | MACRO TEST   | IBR REG 1950 ADN   |
| 558  | MECHANICAL-METALLOGRAPHY TEST | WELDED SPECIMENS             | MACRO TEST   | ASME BPVC II C   |
| 559  | MECHANICAL-METALLOGRAPHY TEST | WELDED SPECIMENS             | MACRO TEST   | AWS D1.1   |
| 560  | MECHANICAL-METALLOGRAPHY TEST | WELDS AND WELDED SPECIMENS   | MACRO TEST   | ASME SECTION-IX  |
| 561  | MECHANICAL-METALLOGRAPHY TEST | WELDS AND WELDED SPECIMENS   | MACRO TEST   | BS-EN-ISO-9017(E)  |
| 562  | MECHANICAL-METALLOGRAPHY TEST | WELDS AND WELDED SPECIMENS   | MACRO TEST   | DIN-EN-1321  |
| 563  | MECHANICAL-METALLOGRAPHY TEST | WELDS AND WELDED SPECIMENS   | MACRO TEST   | IS-3600(PART-9)  |
| 564  | MECHANICAL-METALLOGRAPHY TEST | WELDS AND WELDED SPECIMENS   | MACRO TEST   | ISO-17639  |