



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

PRISTINE 24K TESTING & CALIBRATION SERVICES PRIVATE LIMITED,  
PLOT NO 165/1/14, T BLOCK, MIDC BHOSARI, PUNE, MAHARASHTRA,  
INDIA

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

**Certificate Number** TC-15656

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**Validity** 04/02/2026 to 03/02/2030

**Last Amended on** 10/04/2026

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| Permanent Testing |                           |                                               |                                                                                                                                 |                                                                                                      |
| 1                 | CHEMICAL- CORROSION TESTS | Austenitic & Duplex Stainless Steels          | Corrosion Test in Nitric Acid Medium for Determination of Resistance to Intergranular Corrosion (Huey Test)                     | ISO 3651-1                                                                                           |
| 2                 | CHEMICAL- CORROSION TESTS | Austenitic Stainless Steel                    | Corrosion Rate i.e. susceptibility to intergranular corrosion                                                                   | ASTM A 262-15, Practice E                                                                            |
| 3                 | CHEMICAL- CORROSION TESTS | Austenitic Stainless Steel                    | Corrosion Rate i.e. susceptibility to intergranular corrosion                                                                   | ASTM A 262-15, Practice A                                                                            |
| 4                 | CHEMICAL- CORROSION TESTS | Austenitic Stainless Steel                    | Corrosion Rate i.e. susceptibility to intergranular corrosion                                                                   | ASTM A 262-15, Practice B                                                                            |
| 5                 | CHEMICAL- CORROSION TESTS | Austenitic Stainless Steel                    | Corrosion Rate i.e. susceptibility to intergranular corrosion                                                                   | ASTM A 262-15, Practice F                                                                            |
| 6                 | CHEMICAL- CORROSION TESTS | Austenitic Stainless Steel                    | Corrosion Rate i.e. susceptibility to intergranular corrosion                                                                   | ASTM A 262-15-Practice C                                                                             |
| 7                 | CHEMICAL- CORROSION TESTS | Coated Products / Panels / Raw Materials      | Neutral Salt Spray Test (NSS)                                                                                                   | JIS Z 2371                                                                                           |
| 8                 | CHEMICAL- CORROSION TESTS | Duplex Stainless Steel                        | Ferric Chloride Corrosion Test for Classification of Structures                                                                 | ASTM A 923, Method C                                                                                 |
| 9                 | CHEMICAL- CORROSION TESTS | Duplex Stainless Steel                        | Sodium Hydroxide Etch Test for Classification of Etch Structures                                                                | ASTM A 923, Method A                                                                                 |
| 10                | CHEMICAL- CORROSION TESTS | Electroplated and Anodized Aluminium Coatings | Neutral Salt Spray Test(NSS)                                                                                                    | IS 9844                                                                                              |
| 11                | CHEMICAL- CORROSION TESTS | Ferritic Stainless Steel                      | Copper-copper sulfate-16 % sulfuric acid test for detecting susceptibility to intergranular attack in ferritic stainless steels | ASTM A763-Method "Z"                                                                                 |
| 12                | CHEMICAL- CORROSION TESTS | Ferritic Stainless Steel                      | Copper-copper sulfate-50 % sulfuric acid test for detecting susceptibility to intergranular attack in ferritic stainless steels | ASTM A 763-Method "Y"                                                                                |
| 13                | CHEMICAL- CORROSION TESTS | Ferritic Stainless Steel                      | Ferric sulfate-sulfuric acid test for detecting susceptibility to intergranular attack in ferritic stainless steels             | ASTM A 763-Method "X"                                                                                |



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| 14   | CHEMICAL- CORROSION TESTS | Ferritic Stainless Steel                                                                                                                             | Oxalic acid etch test for detecting susceptibility to intergranular attack in stabilized ferritic stainless steel           | ASTM A763-Method "W"                                                                                 |
| 15   | CHEMICAL- CORROSION TESTS | Ferritic, Austenitic & Duplex Stainless Steels                                                                                                       | 16% Sulphuric Acid-Copper Sulphate Test for Determination of Resistance to Intergranular Corrosion (Monypenny Strauss Test) | ISO 3651-2, Method A                                                                                 |
| 16   | CHEMICAL- CORROSION TESTS | Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels                                                                               | Determination of resistance to intergranular corrosion of stainless steels(The 40 % sulfuric acid/ferric sulfate test)      | ISO 3651-2-Method-C                                                                                  |
| 17   | CHEMICAL- CORROSION TESTS | Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels                                                                               | Determination of resistance to intergranular corrosion of stainless( The 35 % sulfuric acid/copper sulfate test) steels     | ISO 3651-2-Method-B                                                                                  |
| 18   | CHEMICAL- CORROSION TESTS | Ferritic/Austenitic(Duplex) stainless steel                                                                                                          | A ferric chloride corrosion test                                                                                            | ISO 17781                                                                                            |
| 19   | CHEMICAL- CORROSION TESTS | Metals and their alloys, metallic coatings (anodic and cathodic), conversion coatings, anodic oxide coatings, organic coatings on metallic materials | Neutral Salt Spray Test                                                                                                     | ASTM B117                                                                                            |
| 20   | CHEMICAL- CORROSION TESTS | Metals and their alloys, metallic coatings (anodic and cathodic), conversion coatings, anodic oxide coatings, organic coatings on metallic materials | Neutral Salt Spray Test                                                                                                     | ISO 9227                                                                                             |
| 21   | CHEMICAL- CORROSION TESTS | Nickel & Chromium bearing alloys.                                                                                                                    | Critical crevice temperature test for nickel-base and chromium-bearing alloys.                                              | ASTM G 48-Method-D                                                                                   |
| 22   | CHEMICAL- CORROSION TESTS | Nickel-Base and Chromium-Bearing Alloys                                                                                                              | Critical Pitting Temperature Test (10 to 85 Deg. C)                                                                         | ASTM G48 Method C                                                                                    |
| 23   | CHEMICAL- CORROSION TESTS | Painted & coated specimens                                                                                                                           | Rust Creepage test for Scribed specimen                                                                                     | ASTM D 1654                                                                                          |
| 24   | CHEMICAL- CORROSION TESTS | Stainless Steel                                                                                                                                      | Critical crevice temperature test for stain less steels.                                                                    | ASTM G 48-Method-F                                                                                   |
| 25   | CHEMICAL- CORROSION TESTS | Stainless Steels                                                                                                                                     | Critical Pitting Temperature Test (10 to 85 Deg. C)                                                                         | ASTM G48 Method E                                                                                    |
| 26   | CHEMICAL- CORROSION TESTS | Stainless steels and nickel-base, chromium bearing alloys                                                                                            | Ferric chloride crevice test                                                                                                | ASTM G48 Method B                                                                                    |
| 27   | CHEMICAL- CORROSION TESTS | Stainless steels and nickel-base, chromium bearing alloys                                                                                            | Ferric chloride pitting test                                                                                                | ASTM G48 Method A                                                                                    |
| 28   | CHEMICAL- CORROSION TESTS | Wrought, Nickel Rich, Chromium Bearing Alloys (wrought and weldments of products)                                                                    | Corrosion Rate i.e. susceptibility to intergranular corrosion                                                               | ASTM G28 - 02 , (Method B)                                                                           |



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| 29   | CHEMICAL- CORROSION TESTS | Wrought, Nickel Rich, Chromium Bearing Alloys (wrought and weldments of products) | Corrosion Rate i.e. susceptibility to intergranular corrosion                                              | ASTM G28 - 02, (Method A)                                                                            |
| 30   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Chromium                                                                                                   | ASTM E-1251                                                                                          |
| 31   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Lead                                                                                                       | ASTM E-1251                                                                                          |
| 32   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Copper                                                                                                     | ASTM E-1251                                                                                          |
| 33   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Iron                                                                                                       | ASTM E-1251                                                                                          |
| 34   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Magnesium                                                                                                  | ASTM E-1251                                                                                          |
| 35   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Manganese                                                                                                  | ASTM E-1251                                                                                          |
| 36   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Nickel                                                                                                     | ASTM E-1251                                                                                          |
| 37   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Silicon                                                                                                    | ASTM E-1251                                                                                          |
| 38   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Tin                                                                                                        | ASTM E-1251                                                                                          |
| 39   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Titanium                                                                                                   | ASTM E-1251                                                                                          |
| 40   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Vanadium                                                                                                   | ASTM E-1251                                                                                          |
| 41   | CHEMICAL- METALS & ALLOYS | Aluminium & its alloys                                                            | Zinc                                                                                                       | ASTM E-1251                                                                                          |
| 42   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Bismuth                                                                                                    | ASTM E-1251                                                                                          |
| 43   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Chromium                                                                                                   | IS 11035                                                                                             |
| 44   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Copper                                                                                                     | IS 11035                                                                                             |
| 45   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Iron                                                                                                       | IS 11035                                                                                             |
| 46   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Magnesium                                                                                                  | IS 11035                                                                                             |
| 47   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Manganese                                                                                                  | IS 11035                                                                                             |
| 48   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys                                                             | Silicon                                                                                                    | IS 11035                                                                                             |

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



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| 49   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys        | Titanium                                                                                                   | IS 11035                                                                                             |
| 50   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys        | Zinc                                                                                                       | IS 11035                                                                                             |
| 51   | CHEMICAL- METALS & ALLOYS | Aluminum & its Alloys        | Zirconium                                                                                                  | ASTM E-1251                                                                                          |
| 52   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Aluminum                                                                                                   | IS 15338                                                                                             |
| 53   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Aluminum                                                                                                   | JIS G 1253                                                                                           |
| 54   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Boron                                                                                                      | JIS G 1253                                                                                           |
| 55   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Carbon                                                                                                     | ASTM E-1999                                                                                          |
| 56   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Carbon                                                                                                     | IS 15338                                                                                             |
| 57   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Carbon                                                                                                     | JIS G 1253                                                                                           |
| 58   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Chromium                                                                                                   | ASTM E-1999                                                                                          |
| 59   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Chromium                                                                                                   | IS 15338                                                                                             |
| 60   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Chromium                                                                                                   | JIS G 1253                                                                                           |
| 61   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Cobalt                                                                                                     | JIS G 1253                                                                                           |
| 62   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Copper                                                                                                     | ASTM E-1999                                                                                          |
| 63   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Copper                                                                                                     | IS 15338                                                                                             |
| 64   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Copper                                                                                                     | JIS G 1253                                                                                           |
| 65   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Lead                                                                                                       | JIS G 1253                                                                                           |
| 66   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Magnesium                                                                                                  | JIS G 1253                                                                                           |
| 67   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Manganese                                                                                                  | ASTM E-1999                                                                                          |
| 68   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Manganese                                                                                                  | IS 15338                                                                                             |



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| 69   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Manganese                                                                                                  | JIS G 1253                                                                                           |
| 70   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Molybdenum                                                                                                 | ASTM E-1999                                                                                          |
| 71   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Molybdenum                                                                                                 | IS 15338                                                                                             |
| 72   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Molybdenum                                                                                                 | JIS G 1253                                                                                           |
| 73   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Nickel                                                                                                     | ASTM E-1999                                                                                          |
| 74   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Nickel                                                                                                     | IS 15338                                                                                             |
| 75   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Nickel                                                                                                     | JIS G 1253                                                                                           |
| 76   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Niobium                                                                                                    | JIS G 1253                                                                                           |
| 77   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Nitrogen                                                                                                   | JIS G 1253                                                                                           |
| 78   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Phosphorus                                                                                                 | ASTM E-1999                                                                                          |
| 79   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Phosphorus                                                                                                 | IS 15338                                                                                             |
| 80   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Phosphorus                                                                                                 | JIS G 1253                                                                                           |
| 81   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Silicon                                                                                                    | ASTM E-1999                                                                                          |
| 82   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Silicon                                                                                                    | IS 15338                                                                                             |
| 83   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Silicon                                                                                                    | JIS G 1253                                                                                           |
| 84   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Sulfur                                                                                                     | ASTM E-1999                                                                                          |
| 85   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Sulfur                                                                                                     | IS 15338                                                                                             |
| 86   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Sulphur                                                                                                    | JIS G 1253                                                                                           |
| 87   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Tin                                                                                                        | ASTM E-1999                                                                                          |
| 88   | CHEMICAL- METALS & ALLOYS | Cast Iron                    | Tin                                                                                                        | JIS G 1253                                                                                           |



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| 89   | CHEMICAL- METALS & ALLOYS | Cast Iron                      | Titanium                                                                                                   | ASTM E-1999                                                                                          |
| 90   | CHEMICAL- METALS & ALLOYS | Cast Iron                      | Titanium                                                                                                   | JIS G 1253                                                                                           |
| 91   | CHEMICAL- METALS & ALLOYS | Cast Iron                      | Tungsten                                                                                                   | JIS G 1253                                                                                           |
| 92   | CHEMICAL- METALS & ALLOYS | Cast Iron                      | Vanadium                                                                                                   | ASTM E-1999                                                                                          |
| 93   | CHEMICAL- METALS & ALLOYS | Cast Iron                      | Vanadium                                                                                                   | IS 15338                                                                                             |
| 94   | CHEMICAL- METALS & ALLOYS | Cast Iron                      | Vanadium                                                                                                   | JIS G 1253                                                                                           |
| 95   | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Aluminum                                                                                                   | BS EN 15079                                                                                          |
| 96   | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Arsenic                                                                                                    | BS EN 15079                                                                                          |
| 97   | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Bismuth                                                                                                    | BS EN 15079                                                                                          |
| 98   | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Iron                                                                                                       | BS EN 15079                                                                                          |
| 99   | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Lead                                                                                                       | BS EN 15079                                                                                          |
| 100  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Manganese                                                                                                  | BS EN 15079                                                                                          |
| 101  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Nickel                                                                                                     | BS EN 15079                                                                                          |
| 102  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Phosphorus                                                                                                 | BS EN 15079                                                                                          |
| 103  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Silicon                                                                                                    | BS EN 15079                                                                                          |
| 104  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Silver                                                                                                     | BS EN 15079                                                                                          |
| 105  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Sulphur                                                                                                    | BS EN 15079                                                                                          |
| 106  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Tin                                                                                                        | BS EN 15079                                                                                          |
| 107  | CHEMICAL- METALS & ALLOYS | Copper & its alloys            | Zinc                                                                                                       | BS EN 15079                                                                                          |
| 108  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Carbon Equivalent (C.E) (by Calculation)                                                                   | IS 2062                                                                                              |



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| 109  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Aluminium                                                                                                  | ASTM E-415                                                                                           |
| 110  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon steel | Aluminium                                                                                                  | IS 8811                                                                                              |
| 111  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Aluminum                                                                                                   | JIS G 1253                                                                                           |
| 112  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Antimony                                                                                                   | ASTM E 415                                                                                           |
| 113  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Antimony                                                                                                   | JIS G 1253                                                                                           |
| 114  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Arsenic                                                                                                    | ASTM E 415                                                                                           |
| 115  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Arsenic                                                                                                    | IS 8811                                                                                              |
| 116  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Arsenic                                                                                                    | JIS G 1253                                                                                           |
| 117  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Boron                                                                                                      | ASTM E-415                                                                                           |
| 118  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Boron                                                                                                      | IS 8811                                                                                              |
| 119  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Boron                                                                                                      | JIS G 1253                                                                                           |
| 120  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Calcium                                                                                                    | ASTM E 415                                                                                           |
| 121  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Calcium                                                                                                    | JIS G 1253                                                                                           |
| 122  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Carbon                                                                                                     | ASTM E-415                                                                                           |
| 123  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Carbon                                                                                                     | IS 8811                                                                                              |
| 124  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Carbon                                                                                                     | JIS G 1253                                                                                           |
| 125  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Chromium                                                                                                   | ASTM E-415                                                                                           |
| 126  | CHEMICAL- METALS & ALLOYS | Low alloy steel / Carbon Steel | Chromium                                                                                                   | IS 8811                                                                                              |
| 127  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Chromium                                                                                                   | JIS G 1253                                                                                           |
| 128  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Cobalt                                                                                                     | ASTM E-415                                                                                           |



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| 129  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Cobalt                                                                                                     | IS 8811                                                                                              |
| 130  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Cobalt                                                                                                     | JIS G 1253                                                                                           |
| 131  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Copper                                                                                                     | ASTM E-415                                                                                           |
| 132  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Copper                                                                                                     | IS 8811                                                                                              |
| 133  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Copper                                                                                                     | JIS G 1253                                                                                           |
| 134  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Lead                                                                                                       | JIS G 1253                                                                                           |
| 135  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Manganese                                                                                                  | ASTM E-415                                                                                           |
| 136  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Manganese                                                                                                  | IS 8811                                                                                              |
| 137  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Manganese                                                                                                  | JIS G 1253                                                                                           |
| 138  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Molybdenum                                                                                                 | ASTM E-415                                                                                           |
| 139  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Molybdenum                                                                                                 | IS 8811                                                                                              |
| 140  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Molybdenum                                                                                                 | JIS G 1253                                                                                           |
| 141  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Nickel                                                                                                     | ASTM E-415                                                                                           |
| 142  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Nickel                                                                                                     | IS 8811                                                                                              |
| 143  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Nickel                                                                                                     | JIS G 1253                                                                                           |
| 144  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Niobium                                                                                                    | ASTM E 415                                                                                           |
| 145  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Niobium                                                                                                    | IS 8811                                                                                              |
| 146  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Niobium                                                                                                    | JIS G 1253                                                                                           |
| 147  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Nitrogen                                                                                                   | ASTM E-415                                                                                           |
| 148  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Nitrogen                                                                                                   | JIS G 1253                                                                                           |



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| 149  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Phosphorus                                                                                                 | ASTM E-415                                                                                           |
| 150  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Phosphorus                                                                                                 | IS 8811                                                                                              |
| 151  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Phosphorus                                                                                                 | JIS G 1253                                                                                           |
| 152  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Silicon                                                                                                    | ASTM E-415                                                                                           |
| 153  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Silicon                                                                                                    | IS 8811                                                                                              |
| 154  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Silicon                                                                                                    | JIS G 1253                                                                                           |
| 155  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Sulphur                                                                                                    | ASTM E-415                                                                                           |
| 156  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Sulphur                                                                                                    | IS 8811                                                                                              |
| 157  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Sulphur                                                                                                    | JIS G 1253                                                                                           |
| 158  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Tin                                                                                                        | ASTM E-415                                                                                           |
| 159  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Tin                                                                                                        | IS 8811                                                                                              |
| 160  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Tin                                                                                                        | JIS G 1253                                                                                           |
| 161  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Titanium                                                                                                   | ASTM E 415                                                                                           |
| 162  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Titanium                                                                                                   | IS 8811                                                                                              |
| 163  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Titanium                                                                                                   | JIS G 1253                                                                                           |
| 164  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Tungsten                                                                                                   | JIS G 1253                                                                                           |
| 165  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Vanadium                                                                                                   | ASTM E-415                                                                                           |
| 166  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Vanadium                                                                                                   | IS 8811                                                                                              |
| 167  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Vanadium                                                                                                   | JIS G 1253                                                                                           |
| 168  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Zirconium                                                                                                  | ASTM E 415                                                                                           |



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| 169  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Zirconium                                                                                                  | IS 8811                                                                                              |
| 170  | CHEMICAL- METALS & ALLOYS | Low Alloy Steel / Carbon Steel | Zirconium                                                                                                  | JIS G 1253                                                                                           |
| 171  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Aluminium                                                                                                  | JIS G 1253                                                                                           |
| 172  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Boron                                                                                                      | JIS G 1253                                                                                           |
| 173  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Carbon                                                                                                     | ASTM E-1086                                                                                          |
| 174  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Carbon                                                                                                     | IS 9879:1998                                                                                         |
| 175  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Carbon                                                                                                     | JIS G 1253                                                                                           |
| 176  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Chromium                                                                                                   | ASTM E-1086                                                                                          |
| 177  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Chromium                                                                                                   | IS 9879                                                                                              |
| 178  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Chromium                                                                                                   | JIS G 1253                                                                                           |
| 179  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Cobalt                                                                                                     | JIS G 1253                                                                                           |
| 180  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Copper                                                                                                     | ASTM E-1086                                                                                          |
| 181  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Copper                                                                                                     | IS 9879                                                                                              |
| 182  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Copper                                                                                                     | JIS G 1253                                                                                           |
| 183  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Manganese                                                                                                  | ASTM E-1086                                                                                          |
| 184  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Manganese                                                                                                  | IS 9879                                                                                              |
| 185  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Manganese                                                                                                  | JIS G 1253                                                                                           |
| 186  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Molybdenum                                                                                                 | ASTM E-1086                                                                                          |
| 187  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Molybdenum                                                                                                 | IS 9879                                                                                              |
| 188  | CHEMICAL- METALS & ALLOYS | Stainless Steel                | Molybdenum                                                                                                 | JIS G 1253                                                                                           |



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| 189  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Nickel                                                                                                     | ASTM E-1086                                                                                          |
| 190  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Nickel                                                                                                     | IS 9879                                                                                              |
| 191  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Nickel                                                                                                     | JIS G 1253                                                                                           |
| 192  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Niobium                                                                                                    | JIS G 1253                                                                                           |
| 193  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Nitrogen                                                                                                   | JIS G 1253                                                                                           |
| 194  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Phosphorus                                                                                                 | ASTM E-1086                                                                                          |
| 195  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Phosphorus                                                                                                 | IS 9879                                                                                              |
| 196  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Phosphorus                                                                                                 | JIS G 1253                                                                                           |
| 197  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Silicon                                                                                                    | ASTM E-1086                                                                                          |
| 198  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Silicon                                                                                                    | IS 9879                                                                                              |
| 199  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Silicon                                                                                                    | JIS G 1253                                                                                           |
| 200  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Sulphur                                                                                                    | ASTM E-1086                                                                                          |
| 201  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Sulphur                                                                                                    | IS 9879                                                                                              |
| 202  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Sulphur                                                                                                    | JIS G 1253                                                                                           |
| 203  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Titanium                                                                                                   | IS 9879                                                                                              |
| 204  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Titanium                                                                                                   | JIS G 1253                                                                                           |
| 205  | CHEMICAL- METALS & ALLOYS | Stainless Steel              | Vanadium                                                                                                   | JIS G 1253                                                                                           |
| 206  | CHEMICAL- METALS & ALLOYS | Tool Steel                   | Carbon                                                                                                     | JIS G-1253                                                                                           |
| 207  | CHEMICAL- METALS & ALLOYS | Tool Steel                   | Chromium                                                                                                   | JIS G-1253                                                                                           |
| 208  | CHEMICAL- METALS & ALLOYS | Tool Steel                   | Cobalt                                                                                                     | JIS G-1253                                                                                           |



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| 209  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Copper                                                                                                     | JIS G-1253                                                                                           |
| 210  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Manganese                                                                                                  | JIS G-1253                                                                                           |
| 211  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Molybdenum                                                                                                 | JIS G-1253                                                                                           |
| 212  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Nickel                                                                                                     | JIS G-1253                                                                                           |
| 213  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Phosphorus                                                                                                 | JIS G-1253                                                                                           |
| 214  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Silicon                                                                                                    | JIS G-1253                                                                                           |
| 215  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Sulphur                                                                                                    | JIS G-1253                                                                                           |
| 216  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Tungsten                                                                                                   | JIS G-1253                                                                                           |
| 217  | CHEMICAL- METALS & ALLOYS                   | Tool Steel                                       | Vanadium                                                                                                   | JIS G-1253                                                                                           |
| 218  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Alloy and Stainless Steel Pipes.                 | Flattening Test                                                                                            | ASTM A-999                                                                                           |
| 219  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Alloy Steel & Stainless Steel Bolting            | Test on Fasteners (Proof Load / Tensile Test)                                                              | ASTM A193/A193M                                                                                      |
| 220  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Aluminium - On Weld / of Weld Structural         | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,3 2,38,40,44,50 ,60,65.5,75, 80,100,125)              | AWS D1.2                                                                                             |
| 221  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Aluminium - On Weld / of Weld Structural         | Fillet Weld Fracture Test                                                                                  | AWS D1.2                                                                                             |
| 222  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Aluminium - On Weld / of Weld Structural         | Ultimate Tensile Strength Transverse, All Weld                                                             | AWS D1.2                                                                                             |
| 223  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Aluminum and Aluminum-Alloy Drawn Seamless Tubes | Flattening Test                                                                                            | ASTM B-210                                                                                           |
| 224  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Carbon and Alloy Steel Pipes                     | Flattening Test                                                                                            | ASTM A-530                                                                                           |
| 225  | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Carbon and low alloy steel tubes.                | Flattening Test                                                                                            | ASTM A-450                                                                                           |

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



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| 226  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Carbon and low alloy steel tubes.                                   | Reverse Flattening Test.                                                                                   | ASTM A-450                                                                                           |
| 227  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Carbon Steel & Alloy Steel Bolt, Screws & Studs                     | Test on Fasteners (Proof Load / Tensile Test)                                                              | IS 1367-3                                                                                            |
| 228  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Carbon Steel & Alloy Steel Bolt, Screws & Studs                     | Test on Fasteners (Proof Load / Tensile Test)                                                              | ISO 898-1                                                                                            |
| 229  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Carbon Steel & Alloy Steel Nuts                                     | Test on Fasteners (Proof Load Test)                                                                        | ISO 898-2                                                                                            |
| 230  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Carbon Steel, Alloy Steel & Stainless Steel Nuts                    | Test on Fasteners (Proof Load Test)                                                                        | ASTM A194/A194M                                                                                      |
| 231  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Carbon Steel, Alloy Steel & Stainless Steel Nuts                    | Test on Fasteners (Proof Load Test)                                                                        | IS 1367-6                                                                                            |
| 232  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Copper and Copper Alloy Pipe and Tube.                              | Flattening Test                                                                                            | ASTM B-968                                                                                           |
| 233  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Copper and Copper-Alloy Pipe -Tube                                  | Flaring Test                                                                                               | ASTM B-153                                                                                           |
| 234  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Copper and Copper-Alloy Seamless Condenser Tubes.                   | Flattening Test                                                                                            | ASTM B-111                                                                                           |
| 235  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Duplex Stainless Steel                                              | Charpy Impact Vnotch(Temp :- 196°C to Ambient)                                                             | ASTM A 923- Method-B                                                                                 |
| 236  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferritic alloy steel,Austenitic alloy steel, Stainless steel tubes. | Reverse Flattening test                                                                                    | ASTM A-1016                                                                                          |
| 237  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferritic/Austenitic(Duplex) stainless steel                         | Charpy Impact V notch (Temp : - 196°C to Ambient)                                                          | ISO 17781                                                                                            |
| 238  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous & Non Ferrous Metals & Alloys                               | Nick Break Test & Fillet Weld Fracture Test                                                                | API 1104 - 22nd Edition                                                                              |
| 239  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products                    | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,3 2,38,40,44,50 ,60,65.5,75, 80,100,125)              | ASTM E290                                                                                            |



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| 240  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,32,38,40,44,50 ,60,65.5,75, 80,100,125)               | IS 1599                                                                                              |
| 241  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Leak Path , Pull Out Test                                                                                  | ASME Section VIII-Division 1                                                                         |
| 242  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Surface Roughness Measurement                                                                              | IS 3073                                                                                              |
| 243  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products On Weld / of Weld Structural | Fillet Weld Fracture Test                                                                                  | ASME Section-IX                                                                                      |
| 244  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products On Weld / of Weld Structural | Transverse Face, Root & Side Bend Test                                                                     | ASME Section IX                                                                                      |
| 245  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products On Weld / of Weld Structural | Transverse Face, Root & Side Bend Test                                                                     | ASTM E190                                                                                            |
| 246  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous and Non-Ferrous Metals, Alloy & Products On Weld / of Weld Structural | Ultimate Tensile Strength Transverse, All Weld                                                             | ASME Section IX                                                                                      |
| 247  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals                                                                | Jominy end quench hardenability test                                                                       | ASTM A-255                                                                                           |
| 248  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals                                                                | Jominy end quench hardenability test                                                                       | IS 3848                                                                                              |
| 249  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals & Alloys - On Weld / of Weld Structural                        | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,32,38,40,44,50 ,60,65.5,75, 80,100,125)               | AWS D1.1                                                                                             |
| 250  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals & Alloys - On Weld / of Weld Structural                        | Fillet Weld Fracture Test                                                                                  | AWS D1.1                                                                                             |
| 251  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals & Alloys - On Weld / of Weld Structural                        | Transverse Face, Root & Side Bend Test                                                                     | AWS D1.1                                                                                             |
| 252  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals & Alloys - On Weld / of Weld Structural                        | Ultimate Tensile Strength Transverse, All Weld                                                             | AWS D1.1                                                                                             |
| 253  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals & Alloys - On Weld / of Weld Structural - Stainless Steel      | Ultimate Tensile Strength, Transverse, All Weld                                                            | AWS D1.6/D1.6M                                                                                       |



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| 254  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals & Alloys - On Weld / of Weld Structural- Stainless Steel     | Transverse Face, Root And Side Bend                                                                        | AWS D1.6/D1.6M                                                                                       |
| 255  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals, Alloy & Products                                            | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,3 2,38,40,44,50 ,60,65.5,75, 80,100,125)              | Indian Boiler Regulations (IBR, Reference Chapter II, V, VIII, X, XIII)                              |
| 256  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals, Alloy & Products                                            | Transverse Face, Root & Side Bend Test                                                                     | Indian Boiler Regulations (IBR, Reference Chapter II, V, VIII, X, XIII)                              |
| 257  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals, Alloy & Products                                            | Ultimate Tensile Strength Transverse, All Weld                                                             | Indian Boiler Regulations (IBR, Reference Chapter II, V, VIII, X, XI, XIII)                          |
| 258  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products                         | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,3 2,38,40,44,50 ,60,65.5,75, 80,100,125)              | IS 3600-5                                                                                            |
| 259  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products                         | Longitudinal Face & Root Bend Test                                                                         | IS 3600-7                                                                                            |
| 260  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products                         | Nick Break Test & Fillet Weld Fracture Test                                                                | IS 3600-8                                                                                            |
| 261  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products                         | Transverse Face, Root & Side Bend Test                                                                     | IS 3600-5                                                                                            |
| 262  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products - Butt Joints           | Elongation                                                                                                 | IS 3600-4                                                                                            |
| 263  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products - Butt Joints           | Reduction of Area                                                                                          | IS 3600-4                                                                                            |
| 264  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products - Butt Joints           | Ultimate Tensile Strength                                                                                  | IS 3600-4                                                                                            |
| 265  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products - Butt Joints           | Yield Stress                                                                                               | IS 3600-4                                                                                            |
| 266  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welded Joints & Weld Metal in Steel Products(Thickness 6mm and Over) | Charpy Impact " V " notch at temperature : Ambient to -196°C                                               | IS 3600-2                                                                                            |
| 267  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welding of C & C-Mn Steel - On Weld / of Weld Structural             | Fillet Weld Fracture Test                                                                                  | IS 7307-1                                                                                            |



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| 268  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welding of C & C-Mn Steel - On Weld / of Weld Structural | Transverse Face, Root & Side Bend Test                                                                     | IS 7307-1                                                                                            |
| 269  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Fusion Welding of C & C-Mn Steel - On Weld / of Weld Structural | Ultimate Tensile Strength Transverse, All Weld                                                             | IS 7307-1                                                                                            |
| 270  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Helical Compression Springs                                     | Deviation of forms                                                                                         | IS 7906-7                                                                                            |
| 271  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Material-Tubes                                         | Flange Test                                                                                                | ISO 8494                                                                                             |
| 272  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,32,38,40,44,50, 60,65,5.75, 80,100,125)               | ISO 7438                                                                                             |
| 273  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,32,38,40,44,50, 60,65,5.75, 80,100,125)               | JIS Z2248                                                                                            |
| 274  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Charpy Impact " V " notch at temperature : Ambient to -196°C                                               | IS 1757-1                                                                                            |
| 275  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Charpy Impact " V & U " notch at temperature: Ambient to -196°C                                            | EN ISO 148-1                                                                                         |
| 276  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Charpy Impact " V & U " notch at temperature: Ambient to -196°C                                            | JIS Z 2242                                                                                           |
| 277  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Charpy Impact " V & U " notch at temperature : Ambient to -196°C                                           | ASTM E-23                                                                                            |
| 278  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Elongation                                                                                                 | ASTM E8/E8M                                                                                          |
| 279  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Elongation                                                                                                 | BS EN 2002-1                                                                                         |
| 280  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Elongation                                                                                                 | IS 1608-1                                                                                            |
| 281  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                              | Elongation                                                                                                 | ISO 6892-1                                                                                           |



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| 282  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Elongation                                                                                                 | JIS Z2241                                                                                            |
| 283  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Izod Impact Test                                                                                           | B.S. 131 : Part 1                                                                                    |
| 284  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | ASTM E8/E8M                                                                                          |
| 285  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | BS EN 2002-1                                                                                         |
| 286  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | IS 1608-1                                                                                            |
| 287  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | ISO 6892-1                                                                                           |
| 288  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | JIS Z 2241                                                                                           |
| 289  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Reduction of Area                                                                                          | ASTM E8/E8M                                                                                          |
| 290  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Reduction of Area                                                                                          | BS EN 2002-1                                                                                         |
| 291  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Reduction of Area                                                                                          | IS 1608-1                                                                                            |
| 292  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Reduction of Area                                                                                          | ISO 6892-1                                                                                           |
| 293  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Reduction of Area                                                                                          | JIS Z2241                                                                                            |
| 294  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Ultimate Tensile Strength                                                                                  | ASTM E8/E8M                                                                                          |
| 295  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials           | Ultimate Tensile Strength                                                                                  | BS EN 2002-1                                                                                         |



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| 296  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Ultimate Tensile Strength                                                                                  | IS 1608-1                                                                                            |
| 297  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Ultimate Tensile Strength                                                                                  | ISO 6892-1                                                                                           |
| 298  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Ultimate Tensile Strength                                                                                  | JIS Z2241                                                                                            |
| 299  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Yield Stress                                                                                               | ASTM E8/E8M                                                                                          |
| 300  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Yield Stress                                                                                               | BS EN 2002-1                                                                                         |
| 301  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Yield Stress                                                                                               | IS 1608-1                                                                                            |
| 302  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Yield Stress                                                                                               | ISO 6892-1                                                                                           |
| 303  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials                                 | Yield Stress                                                                                               | JIS Z2241                                                                                            |
| 304  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - Fusion-welded joints Products | Fillet Weld Fracture Test                                                                                  | ISO 9017                                                                                             |
| 305  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - On Weld                       | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,32,38,40,44,50, 60,65.5,75, 80,100,125)               | ISO 5173                                                                                             |
| 306  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - On Weld                       | Charpy Impact " V " notch at temperature: Ambient to -196°C                                                | EN ISO 9016                                                                                          |
| 307  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - On Weld                       | Transverse Face, Root & Side Bend Test                                                                     | ISO 5173                                                                                             |
| 308  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - On Weld                       | Transverse Tensile Test                                                                                    | EN ISO 4136                                                                                          |
| 309  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - On Weld                       | Transverse Tensile Test                                                                                    | IS 3600-3                                                                                            |



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| 310  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - Tubes         | Drift expansion / Flaring test                                                                             | IS 2335                                                                                              |
| 311  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - Tubes         | Drift expansion / Flaring test                                                                             | ISO 8493                                                                                             |
| 312  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials - Tubes         | Flange test                                                                                                | IS 2330                                                                                              |
| 313  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials Sheets & Strips | Erichsen Cupping Test                                                                                      | IS 10175                                                                                             |
| 314  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials Sheets & Strips | Erichsen Cupping Test                                                                                      | ISO 20482                                                                                            |
| 315  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials-Tube            | Bend Test                                                                                                  | IS 2329                                                                                              |
| 316  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials-Tube            | Bend Test                                                                                                  | ISO 8491                                                                                             |
| 317  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials-Tubes           | Flange Test                                                                                                | ASTM A-370                                                                                           |
| 318  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic tubes                     | Flattening test                                                                                            | ASTM A-1016                                                                                          |
| 319  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic tubes                     | Flattening test                                                                                            | ASTM A-370                                                                                           |
| 320  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic tubes                     | Flattening test                                                                                            | IS 2328                                                                                              |
| 321  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic tubes                     | Flattening test                                                                                            | ISO 8492                                                                                             |
| 322  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Tubes                     | Reverse Bend                                                                                               | ASTM A-1016                                                                                          |
| 323  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Tubes                     | Reverse Bend Test                                                                                          | ASTM A249/A249M                                                                                      |



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| 324  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic tubes                        | Reverse Flattening test                                                                                    | ASTM A-370                                                                                           |
| 325  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys                       | Izod Impact                                                                                                | IS 1598                                                                                              |
| 326  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 10/1000)                                                                             | ASTM E-10                                                                                            |
| 327  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 10/1000)                                                                             | IS 1500 PART-1                                                                                       |
| 328  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 10/1000)                                                                             | ISO 6506-1                                                                                           |
| 329  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 10/3000)                                                                             | ASTM E-10                                                                                            |
| 330  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 10/3000)                                                                             | IS 1500 PART-1                                                                                       |
| 331  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 10/3000)                                                                             | ISO 6506-1                                                                                           |
| 332  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 2.5/187.5)                                                                           | ASTM E-10                                                                                            |
| 333  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 2.5/187.5)                                                                           | IS 1500 PART-1                                                                                       |
| 334  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 2.5/187.5)                                                                           | ISO 6506-1                                                                                           |
| 335  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 5.0/750)                                                                             | ASTM E-10                                                                                            |
| 336  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 5.0/750)                                                                             | IS 1500 PART-1                                                                                       |
| 337  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Brinell Hardness (HBW 5.0/750)                                                                             | ISO 6506-1                                                                                           |



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| 338  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.1)                                                                       | ASTM E-384                                                                                           |
| 339  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.1)                                                                       | IS 1501-1                                                                                            |
| 340  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.1)                                                                       | ISO 6507-1                                                                                           |
| 341  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.3)                                                                       | ASTM E-384                                                                                           |
| 342  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.3)                                                                       | IS 1501-1                                                                                            |
| 343  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.3)                                                                       | ISO 6507-1                                                                                           |
| 344  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.5)                                                                       | ASTM E-384                                                                                           |
| 345  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.5)                                                                       | IS 1501-1                                                                                            |
| 346  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 0.5)                                                                       | ISO 6507-1                                                                                           |
| 347  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 1)                                                                         | ASTM E-384                                                                                           |
| 348  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 1)                                                                         | IS 1501-1                                                                                            |
| 349  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Micro Vickers Hardness Test (HV 1)                                                                         | ISO 6507-1                                                                                           |
| 350  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell hardness test (HR 15 N)                                                                           | ASTM E-18                                                                                            |
| 351  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell hardness test (HR 15 N)                                                                           | IS 1586-1                                                                                            |



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| 352  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell hardness test (HR 15 N)                                                                           | ISO 6508-1                                                                                           |
| 353  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 15TW)                                                                           | ASTM E-18                                                                                            |
| 354  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 15TW)                                                                           | IS 1586-1                                                                                            |
| 355  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 15TW)                                                                           | ISO 6508-1                                                                                           |
| 356  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 30N)                                                                            | ASTM E-18                                                                                            |
| 357  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 30N)                                                                            | IS 1586-1                                                                                            |
| 358  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 30N)                                                                            | ISO 6508-1                                                                                           |
| 359  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 30TW)                                                                           | ASTM E-18                                                                                            |
| 360  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 30TW)                                                                           | IS 1586-1                                                                                            |
| 361  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 30TW)                                                                           | ISO 6508-1                                                                                           |
| 362  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 45N)                                                                            | ASTM E-18                                                                                            |
| 363  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 45N)                                                                            | IS 1586-1                                                                                            |
| 364  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 45N)                                                                            | ISO 6508-1                                                                                           |
| 365  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 45TW)                                                                           | ASTM E-18                                                                                            |



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| 366  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 45TW)                                                                           | IS 1586-1                                                                                            |
| 367  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HR 45TW)                                                                           | ISO 6508-1                                                                                           |
| 368  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRA)                                                                               | ASTM E-18                                                                                            |
| 369  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRA)                                                                               | IS 1586-1                                                                                            |
| 370  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRA)                                                                               | ISO 6508-1                                                                                           |
| 371  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRBW)                                                                              | ASTM E-18                                                                                            |
| 372  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRBW)                                                                              | IS 1586-1                                                                                            |
| 373  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRBW)                                                                              | ISO 6508-1                                                                                           |
| 374  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRC)                                                                               | ASTM E-18                                                                                            |
| 375  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRC)                                                                               | IS 1586-1                                                                                            |
| 376  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Rockwell Hardness Test (HRC)                                                                               | ISO 6508-1                                                                                           |
| 377  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 10)                                                                                   | ASTM E-92                                                                                            |
| 378  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 10)                                                                                   | IS 1501-1                                                                                            |
| 379  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 10)                                                                                   | ISO 6507-1                                                                                           |



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| 380  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 20)                                                                                   | ASTM E-92                                                                                            |
| 381  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 20)                                                                                   | IS 1501-1                                                                                            |
| 382  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 20)                                                                                   | ISO 6507-1                                                                                           |
| 383  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 30)                                                                                   | ASTM E-92                                                                                            |
| 384  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 30)                                                                                   | IS 1501-1                                                                                            |
| 385  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 30)                                                                                   | ISO 6507-1                                                                                           |
| 386  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 5)                                                                                    | ASTM E92                                                                                             |
| 387  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 5)                                                                                    | IS 1501-1                                                                                            |
| 388  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 5)                                                                                    | ISO 6507-1                                                                                           |
| 389  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 50)                                                                                   | ASTM E-92                                                                                            |
| 390  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 50)                                                                                   | IS 1501-1                                                                                            |
| 391  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non Ferrous | Vickers Hardness (HV 50)                                                                                   | ISO 6507-1                                                                                           |
| 392  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness (HBW 10/1000)                                                                             | ASTM A-370                                                                                           |
| 393  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness (HBW 10/3000)                                                                             | ASTM A-370                                                                                           |



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| 394  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness (HBW 2.5/187.5)                                                                           | ASTM A-370                                                                                           |
| 395  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness (HBW 2.5/62.50)                                                                           | ASTM E-10                                                                                            |
| 396  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness (HBW 5.0/750)                                                                             | ASTM A-370                                                                                           |
| 397  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(2.5/31.25)                                                                                | ASTM A-370                                                                                           |
| 398  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(5/250)                                                                                    | ASTM A 370                                                                                           |
| 399  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 10/500)                                                                               | ASTM A-370                                                                                           |
| 400  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 10/500)                                                                               | ASTM E-10                                                                                            |
| 401  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 10/500)                                                                               | IS 1500-1                                                                                            |
| 402  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 10/500)                                                                               | ISO 6506-1                                                                                           |
| 403  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 2.5/31.25)                                                                            | ASTM E-10                                                                                            |
| 404  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 2.5/31.25)                                                                            | IS 1500-1                                                                                            |
| 405  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 2.5/31.25)                                                                            | ISO 6506-1                                                                                           |
| 406  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 2.5/62.50)                                                                            | ASTM A-370                                                                                           |
| 407  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 2.5/62.50)                                                                            | IS 1500-1                                                                                            |



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| 408  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 2.5/62.50)                                                                            | ISO 6506-1                                                                                           |
| 409  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-ferrous | Brinell Hardness(HBW 5/250)                                                                                | ASTM E-10                                                                                            |
| 410  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 5/250)                                                                                | IS 1500-1                                                                                            |
| 411  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Brinell Hardness(HBW 5/250)                                                                                | ISO 6506-1                                                                                           |
| 412  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micor Vickers hardness Test(HV 0.2)                                                                        | IS 1501-1                                                                                            |
| 413  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.050)                                                                      | ASTM A-370                                                                                           |
| 414  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.050)                                                                      | ASTM E-384                                                                                           |
| 415  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.050)                                                                      | IS 1501-1                                                                                            |
| 416  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.050)                                                                      | ISO 6507-1                                                                                           |
| 417  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.2)                                                                        | ASTM A-370                                                                                           |
| 418  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.2)                                                                        | ASTM E-384                                                                                           |
| 419  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Micro Vickers Hardness Test(HV 0.2)                                                                        | ISO 6507-1                                                                                           |
| 420  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Rockwell hardness test (HR 15 N)                                                                           | ASTM A-370                                                                                           |
| 421  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous | Rockwell Hardness Test (HR 15TW)                                                                           | ASTM A-370                                                                                           |



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| 422  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous                               | Rockwell Hardness Test (HR 30N)                                                                            | ASTM A-370                                                                                           |
| 423  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metals & Alloys Ferrous & Non-Ferrous                               | Rockwell Hardness Test (HR 30TW)                                                                           | ASTM A-370                                                                                           |
| 424  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non-Ferrous Metals & Alloys - On Weld / of Weld Structural-Aluminum | Transverse Face, Root & Side Bend Test                                                                     | AWS D1.2                                                                                             |
| 425  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Stainless Steel - On Weld / of Weld Structural                      | Fillet Weld Fracture Test                                                                                  | AWS D1.6                                                                                             |
| 426  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Plates                                                        | Through Thickness Tension Test                                                                             | ASTM A770/A770M                                                                                      |
| 427  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Plates                                                        | Through Thickness Tension Test                                                                             | DIN EN 10164                                                                                         |
| 428  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Bend Test (Mandrel Dia mm 2,5,6,8,10,12, 16,20,24,30,32,38,40,44,50,60,65,5.75, 80,100,125)                | ASTM A370                                                                                            |
| 429  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Charpy Impact " V " notch at temperature : Ambient to -196°C                                               | ASTM A 370                                                                                           |
| 430  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Crushing Test                                                                                              | ASTM A-370                                                                                           |
| 431  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Elongation                                                                                                 | ASTM A370                                                                                            |
| 432  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Micro Vickers Hardness Test (HV 0.1)                                                                       | ASTM A-370                                                                                           |
| 433  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Micro Vickers Hardness Test (HV 0.3)                                                                       | ASTM A-370                                                                                           |
| 434  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Micro Vickers Hardness Test (HV 0.5)                                                                       | ASTM A-370                                                                                           |
| 435  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products                                                      | Micro Vickers Hardness Test (HV 1)                                                                         | ASTM A-370                                                                                           |



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| 436  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | ASTM A 370                                                                                           |
| 437  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Reduction of Area                                                                                          | ASTM A370                                                                                            |
| 438  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Rockwell Hardness Test (HR 45N)                                                                            | ASTM A-370                                                                                           |
| 439  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Rockwell Hardness Test (HR 45TW)                                                                           | ASTM A-370                                                                                           |
| 440  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Rockwell Hardness Test (HRA)                                                                               | ASTM A-370                                                                                           |
| 441  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Rockwell Hardness Test (HRBW)                                                                              | ASTM A-370                                                                                           |
| 442  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Rockwell Hardness Test (HRC)                                                                               | ASTM A-370                                                                                           |
| 443  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Ultimate Tensile Strength                                                                                  | ASTM A370                                                                                            |
| 444  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Vickers Hardness (HV 10)                                                                                   | ASTM A-370                                                                                           |
| 445  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Vickers Hardness (HV 20)                                                                                   | ASTM A-370                                                                                           |
| 446  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Vickers Hardness (HV 30)                                                                                   | ASTM A-370                                                                                           |
| 447  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Vickers Hardness (HV 5)                                                                                    | ASTM A-370                                                                                           |
| 448  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Vickers Hardness (HV 50)                                                                                   | ASTM A-370                                                                                           |
| 449  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products               | Yield Stress                                                                                               | ASTM A370                                                                                            |



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| 450  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Products - Tubes                            | Drift expansion / Flaring test                                                                             | ASTM A370                                                                                            |
| 451  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Tubes                                       | Crushing Test                                                                                              | IS 3074                                                                                              |
| 452  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Steel Tubes                                       | Crushing test                                                                                              | IS 3601                                                                                              |
| 453  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | TMT Bar                                           | Bend Test                                                                                                  | IS 1786                                                                                              |
| 454  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | TMT Bar                                           | Elongation                                                                                                 | IS 1786                                                                                              |
| 455  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | TMT Bar                                           | Mass per meter                                                                                             | IS 1786                                                                                              |
| 456  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | TMT Bar                                           | Proof Stress                                                                                               | IS 1786                                                                                              |
| 457  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | TMT Bar                                           | Rebend Test                                                                                                | IS 1786                                                                                              |
| 458  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | TMT Bar                                           | Ultimate tensile strength                                                                                  | IS 1786                                                                                              |
| 459  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Weld (Longitudinal Welded Coupon)                 | Ultimate Tensile Strength                                                                                  | ISO 5178                                                                                             |
| 460  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Weld Metal (Ferrous, Non-Ferrous Metals & Alloys) | Tensile Test (Ultimate Tensile Strength)                                                                   | API 1104                                                                                             |
| 461  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Welds & Welded test specimen                      | Face, Root ,Side Bend Test                                                                                 | IS 7310-1                                                                                            |
| 462  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Welds & Welded test specimen                      | Fillet Weld Fracture Test                                                                                  | AWS B 4.0                                                                                            |
| 463  | MECHANICAL-<br>MECHANICAL PROPERTIES<br>OF METALS | Welds & Welded test specimen                      | Ultimate Tensile Strength, Transverse, All Weld                                                            | AWS B 4.0                                                                                            |



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| 464  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test specimen                            | Cruciform & Lapped Joint Tensile Strength                                                                  | IS 3600-1                                                                                            |
| 465  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test specimen                            | Cruciform & Lapped Joint Tensile Strength                                                                  | ISO 9018                                                                                             |
| 466  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test specimen                            | Face, Root ,Side Bend Test                                                                                 | AWS B 4.0                                                                                            |
| 467  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test specimen                            | Fillet Weld Fracture Test                                                                                  | IS 3600-8                                                                                            |
| 468  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Welded test specimen                            | Fillet Weld Fracture Test                                                                                  | IS 7310-1                                                                                            |
| 469  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & welded test specimens, Mock up assembly         | Push / Pull out test                                                                                       | ASME Section IX                                                                                      |
| 470  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds & Weldment Specimens                              | Nick Break Test & Fillet Weld Fracture Test                                                                | IS 2825                                                                                              |
| 471  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | welds in metallic materials                             | Vickers Hardness Test(HV 10)                                                                               | ISO 9015-1                                                                                           |
| 472  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | welds in metallic materials                             | Vickers Hardness Test(HV 5)                                                                                | ISO 9015-1                                                                                           |
| 473  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds in Metallic Materials                             | Bend Test                                                                                                  | API 1104                                                                                             |
| 474  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds in Metallic Materials                             | Charpy Impact test                                                                                         | ASME Sec VIII (DIV I , UG 84)                                                                        |
| 475  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds in Metallic Materials                             | Peel Test                                                                                                  | ASME SEC IX                                                                                          |
| 476  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Welds in Metallic Materials                             | Shear test                                                                                                 | ASME SEC IX                                                                                          |
| 477  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Wrought and Cast Aluminum- and Magnesium-Alloy Products | Elongation                                                                                                 | ASTM B557                                                                                            |



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| 478  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Wrought and Cast Aluminum- and Magnesium-Alloy Products                         | Proof Stress (0.2 %, 0.5 %, 0.65% & 1% )                                                                   | ASTM B 557                                                                                           |
| 479  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Wrought and Cast Aluminum- and Magnesium-Alloy Products                         | Reduction of Area                                                                                          | ASTM B557                                                                                            |
| 480  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Wrought and Cast Aluminum- and Magnesium-Alloy Products                         | Ultimate Tensile Strength                                                                                  | ASTM B557                                                                                            |
| 481  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Wrought and Cast Aluminum- and Magnesium-Alloy Products                         | Yield Stress                                                                                               | ASTM B557                                                                                            |
| 482  | MECHANICAL-METALLOGRAPHY TEST              | Welds in Metallic Materials                                                     | Macro Structural Examination                                                                               | ASME Sec VIII                                                                                        |
| 483  | MECHANICAL-METALLOGRAPHY TEST              | Aluminium - On Weld / of Weld Structural                                        | Macro Structural Examination                                                                               | AWS D1.2                                                                                             |
| 484  | MECHANICAL-METALLOGRAPHY TEST              | Arc & Gas Welding of Steels, Arc Welding of Ni & Ni Alloys - of Weld Structural | Macro & Micro Examination                                                                                  | BS EN ISO 15614-1                                                                                    |
| 485  | MECHANICAL-METALLOGRAPHY TEST              | Case hardened steel                                                             | Case Depth by Micro-Hardness Method                                                                        | IS 6416                                                                                              |
| 486  | MECHANICAL-METALLOGRAPHY TEST              | Case hardened steel                                                             | Case Depth By Micro-Hardness Method                                                                        | ISO 18203                                                                                            |
| 487  | MECHANICAL-METALLOGRAPHY TEST              | Case hardened steel                                                             | Case Depth By Microscopic Method                                                                           | ISO 18203                                                                                            |
| 488  | MECHANICAL-METALLOGRAPHY TEST              | Case Hardened Steels                                                            | Case Depth by Microscopic Method                                                                           | IS 6416                                                                                              |
| 489  | MECHANICAL-METALLOGRAPHY TEST              | Coated Metallic Material                                                        | Mass of Aluminium Zinc Metallic Coating                                                                    | IS 15961                                                                                             |
| 490  | MECHANICAL-METALLOGRAPHY TEST              | Copper & Copper Alloys                                                          | Mercurous Nitrate Test                                                                                     | ASTM B154                                                                                            |
| 491  | MECHANICAL-METALLOGRAPHY TEST              | Copper Alloys                                                                   | Mercurous Nitrate Test                                                                                     | IS 2305                                                                                              |
| 492  | MECHANICAL-METALLOGRAPHY TEST              | Destructive Tests on Welds in Metallic Materials                                | Macro & Micro Examination                                                                                  | IS 3600-9                                                                                            |
| 493  | MECHANICAL-METALLOGRAPHY TEST              | Ductile Iron                                                                    | Nodularity & Nodule Count using Image Analysis                                                             | ASTM E2567                                                                                           |
| 494  | MECHANICAL-METALLOGRAPHY TEST              | Ferritic/Austenitic(Duplex) stainless steel                                     | Detecting Detrimental Intermetallic Phase test                                                             | ISO 17781                                                                                            |
| 495  | MECHANICAL-METALLOGRAPHY TEST              | Ferritic/Austenitic(Duplex) stainless steel                                     | Determining Volume Fraction by Systematic Manual Point Count                                               | ISO 17781                                                                                            |



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| 496  | MECHANICAL-METALLOGRAPHY TEST | Ferritic/Austenitic(Duplex) stainless steel                                   | Determining Volume Fraction by Systematic Manual Point Count                                               | ISO 17781                                                                                            |
| 497  | MECHANICAL-METALLOGRAPHY TEST | Ferrous                                                                       | Spheroidization rating by Comparison method.                                                               | ASTM F 2282                                                                                          |
| 498  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals - Electroplated Coating Products               | Coating Thickness By Microscopic Method                                                                    | IS 3203                                                                                              |
| 499  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals - Metal & Oxide Coating Products               | Coating Thickness By Microscopic Method                                                                    | ASTM B487                                                                                            |
| 500  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals Plated Products                                | Coating Thickness By Magnetic Method : Non Magnetic Coating on Magnetic Metal                              | ASTM B499                                                                                            |
| 501  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Determining Average Grain Size                                                                             | ASTM E112                                                                                            |
| 502  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Determining Average Grain Size.                                                                            | IS 4748                                                                                              |
| 503  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Microstructure Analysis                                                                                    | ASM Handbook Volume 9                                                                                |
| 504  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals, Alloy & Products                              | Volume fraction by Manual point count                                                                      | ASTM E562                                                                                            |
| 505  | MECHANICAL-METALLOGRAPHY TEST | Ferrous and Non-Ferrous Metals, Alloy & Products On Weld / of Weld Structural | Macro Structural Examination                                                                               | ASME Section IX                                                                                      |
| 506  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Material, Alloys & Products                                           | Decarb Depth by Microscopic Method                                                                         | ASTM E1077                                                                                           |
| 507  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals & Alloys - On Weld / of Weld                                   | Macro & Micro Examination                                                                                  | EN ISO 17639                                                                                         |
| 508  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals & Alloys - On Weld / of Weld                                   | Macro Structural Examination                                                                               | Indian Boiler Regulations (IBR, Reference Chapter V, VIII, XII, XIII)                                |
| 509  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals & Alloys - On Weld / of Weld Structural                        | Macro Structural Examination                                                                               | AWS D1.1                                                                                             |
| 510  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals & Alloys - On Weld/of Weld                                     | Microstructure Analysis                                                                                    | EN ISO 17639                                                                                         |
| 511  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products                                              | Determination of content of non-metallic inclusions                                                        | IS 4163                                                                                              |
| 512  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products                                              | Determination of content of non-metallic inclusions                                                        | ISO 4967                                                                                             |
| 513  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products                                              | Determining Average Grain Size - Mc-Quaid EHN Test                                                         | ASTM E112                                                                                            |
| 514  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products                                              | Non Metallic Inclusion Rating by Comparison Method - Method A                                              | ASTM E45                                                                                             |

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| 515  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products                                                       | Non Metallic Inclusion Rating by Comparison Method - Method D                                              | ASTM E45                                                                                             |
| 516  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products.                                                      | Determining Average Grain Size                                                                             | ISO 643                                                                                              |
| 517  | MECHANICAL-METALLOGRAPHY TEST | Ferrous Metals, Alloy & Products.                                                      | Non Metallic Inclusion Rating                                                                              | BS EN 10247                                                                                          |
| 518  | MECHANICAL-METALLOGRAPHY TEST | Fusion Welding of C & C-Mn Steel - On Weld / of Weld Structural                        | Macro Structural Examination                                                                               | IS 7307-1                                                                                            |
| 519  | MECHANICAL-METALLOGRAPHY TEST | Gray irons, malleable irons, compacted graphite irons, and the ductile (nodular) irons | Microstructure of Graphite in Cast Iron                                                                    | ASTM A247                                                                                            |
| 520  | MECHANICAL-METALLOGRAPHY TEST | Gray irons, malleable irons, compacted graphite irons, and the ductile (nodular) irons | Microstructure of Graphite in Cast Iron                                                                    | ISO 945-1                                                                                            |
| 521  | MECHANICAL-METALLOGRAPHY TEST | Grey Cast Iron                                                                         | Microstructure of Graphite in Cast Iron                                                                    | IS 7754                                                                                              |
| 522  | MECHANICAL-METALLOGRAPHY TEST | Hot Dip Galvanized Coating on Iron & Steel Articles                                    | Mass of Zinc Coating                                                                                       | ISO 1461                                                                                             |
| 523  | MECHANICAL-METALLOGRAPHY TEST | Metallic Coatings                                                                      | Adhesion Test (by bend test method)                                                                        | ASTM B-571                                                                                           |
| 524  | MECHANICAL-METALLOGRAPHY TEST | Metallic Coatings                                                                      | Adhesion Test (by burnishing test method)                                                                  | ASTM B 571                                                                                           |
| 525  | MECHANICAL-METALLOGRAPHY TEST | Metallic Coatings                                                                      | Adhesion Test (by heat quench test method)                                                                 | ASTM B 571                                                                                           |
| 526  | MECHANICAL-METALLOGRAPHY TEST | Metallic Coatings                                                                      | Adhesion Test (by Peel test method)                                                                        | ASTM B 571                                                                                           |
| 527  | MECHANICAL-METALLOGRAPHY TEST | Metals and Alloy                                                                       | Macro-Etching Technique                                                                                    | ASTM E340                                                                                            |
| 528  | MECHANICAL-METALLOGRAPHY TEST | Painted, Plated, Coated Panels & Product                                               | Adhesion Test                                                                                              | ASTM D 3359                                                                                          |
| 529  | MECHANICAL-METALLOGRAPHY TEST | Painted, Plated, Coated Panels & Product                                               | Adhesion Test (Tape Test)                                                                                  | ISO 2409                                                                                             |
| 530  | MECHANICAL-METALLOGRAPHY TEST | S.G. Iron                                                                              | Microstructure of Graphite in Cast Iron                                                                    | IS 7754                                                                                              |
| 531  | MECHANICAL-METALLOGRAPHY TEST | Stainless Steel - On Weld / of Weld Structural                                         | Macro Structural Examination                                                                               | AWS D1.6                                                                                             |
| 532  | MECHANICAL-METALLOGRAPHY TEST | Steel                                                                                  | Decarb Depth by Microscopic Method                                                                         | IS 6396                                                                                              |
| 533  | MECHANICAL-METALLOGRAPHY TEST | Steel                                                                                  | Decarb Depth By Microscopic Method                                                                         | ISO 3887                                                                                             |
| 534  | MECHANICAL-METALLOGRAPHY TEST | Steel Bars, Billets, Blooms, and Forgings                                              | Macro Structural Examination                                                                               | ASTM E381                                                                                            |

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| 535  | MECHANICAL-METALLOGRAPHY TEST | Steel Bars, Billets, Blooms, and Forgings                                | Macro Structural Examination                                                                               | IS 11371                                                                                             |
| 536  | MECHANICAL-METALLOGRAPHY TEST | Steel coated products                                                    | Phosphate Coating                                                                                          | IS 3618                                                                                              |
| 537  | MECHANICAL-METALLOGRAPHY TEST | Steel, Nickel, Titanium and their alloys - Fusion-welded joints Products | Quality levels of imperfections in fusion-welded joints                                                    | ISO 5817                                                                                             |
| 538  | MECHANICAL-METALLOGRAPHY TEST | Steels                                                                   | Macro Structural Examination                                                                               | ISO 9606-1                                                                                           |
| 539  | MECHANICAL-METALLOGRAPHY TEST | Tool Steels                                                              | Macro Structural Examination                                                                               | ASTM A 561                                                                                           |
| 540  | MECHANICAL-METALLOGRAPHY TEST | Zinc Coated Iron & Steel Articles                                        | Mass of Zinc Coating                                                                                       | IS 6745                                                                                              |
| 541  | MECHANICAL-METALLOGRAPHY TEST | Zinc Coated Iron & Steel Articles                                        | Uniformity of Coating                                                                                      | IS 2633                                                                                              |