



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name RAIPUR METALLURGICAL LAB, VILLAGE JARWAH, BANA GUMA ROAD, HIRAPUR, RAIPUR, CHHATTISGARH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6083 Page No. : 1 / 14

Validity 29/09/2019 to 28/09/2021 Last Amended on -

| S.No | Discipline / Group        | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|------|---------------------------|------------------------------|--|--|
| 1    | CHEMICAL- METALS & ALLOYS | Stainless steel              | Aluminium  | IS 9879: 1998  |
| 2    | CHEMICAL- METALS & ALLOYS | Stainless steel              | Aluminium  | ASTM E 1086: 2014  |
| 3    | CHEMICAL- METALS & ALLOYS | Stainless steel              | Boron  | IS 9879: 1998  |
| 4    | CHEMICAL- METALS & ALLOYS | Stainless steel              | Carbon   | ASTM E 1086: 2014  |
| 5    | CHEMICAL- METALS & ALLOYS | Stainless steel              | carbon   | IS 9879: 1998  |
| 6    | CHEMICAL- METALS & ALLOYS | Stainless steel              | Chromium   | ASTM E 1086: 2014  |
| 7    | CHEMICAL- METALS & ALLOYS | Stainless steel              | chromium   | IS 9879: 1998  |
| 8    | CHEMICAL- METALS & ALLOYS | Stainless steel              | cobalt   | IS 9879: 1998  |
| 9    | CHEMICAL- METALS & ALLOYS | Stainless steel              | copper   | IS 9879: 1998  |
| 10   | CHEMICAL- METALS & ALLOYS | Stainless steel              | Manganese  | ASTM E 1086: 2014  |
| 11   | CHEMICAL- METALS & ALLOYS | Stainless steel              | Manganese  | IS 9879: 1998  |
| 12   | CHEMICAL- METALS & ALLOYS | Stainless steel              | Molybdenum   | ASTM E 1086: 2014  |
| 13   | CHEMICAL- METALS & ALLOYS | Stainless steel              | Molybdenum   | IS 9879: 1998  |



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| 14   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Nickel   | ASTM E 1086: 2014  |
| 15   | CHEMICAL- METALS & ALLOYS | Stainless steel  | nickel   | IS 9879: 1998  |
| 16   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Phosphorus   | ASTM E 1086: 2014  |
| 17   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Phosphorus   | IS 9879: 1998  |
| 18   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Silicon  | ASTM E 1086: 2014  |
| 19   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Silicon  | IS 9879: 1998  |
| 20   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Sulphur  | ASTM E 1086: 2014  |
| 21   | CHEMICAL- METALS & ALLOYS | Stainless steel  | sulphur  | IS 9879: 1998  |
| 22   | CHEMICAL- METALS & ALLOYS | Stainless steel  | titanium   | IS 9879: 1998  |
| 23   | CHEMICAL- METALS & ALLOYS | Stainless steel  | Vanadium   | IS 9879: 1998  |
| 24   | CHEMICAL- METALS & ALLOYS | Carbon steel (low carbon, medium carbon & high carbon steel) | Molybdenum   | IS 8811: 1998  |
| 25   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel)  | Aluminium  | IS 8811: 1998  |



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| 26   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Aluminium  | ASTM E 415: 2015   |
| 27   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Arsenic  | IS 8811: 1998  |
| 28   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Boron  | IS 8811: 1998  |
| 29   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Carbon   | IS 8811: 1998  |
| 30   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Carbon   | ASTM E 415: 2015   |
| 31   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Chromium   | IS 8811: 1998  |
| 32   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Chromium   | ASTM E 415: 2015   |
| 33   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Cobalt   | ASTM E 415: 2015   |
| 34   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Cobalt   | Is 8811: 1998  |



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| 35   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Copper   | Is 8811: 1998  |
| 36   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Copper   | ASTM E 415: 2015   |
| 37   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | manganese  | IS 8811: 1998  |
| 38   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Manganese  | ASTM E-415: 2015   |
| 39   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Molybdenum   | ASTM E 415: 2015   |
| 40   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Nickel   | ASTM E 415: 2015   |
| 41   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Nickel   | IS 8811: 1998  |
| 42   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Niobium  | IS 8811: 1998  |
| 43   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | phosphorus   | IS 8811: 1998  |



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| 44   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Phosphorus   | ASTM E 415: 2015   |
| 45   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Silicon  | ASTM E 415: 2015   |
| 46   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Silicon  | IS 8811: 1998  |
| 47   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Sulphur  | ASTM E 415: 2015   |
| 48   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Sulphur  | IS 8811: 1998  |
| 49   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Titanium   | IS 8811: 1998  |
| 50   | CHEMICAL- METALS & ALLOYS | Carbon steel(low carbon, medium carbon & high carbon steel) | Vanadium   | IS 8811: 1998  |
| 51   | CHEMICAL- METALS & ALLOYS | Carbon Steel(low carbon, medium carbon , high carbon steel  | Arsenic  | ASTM E 415: 2015   |
| 52   | CHEMICAL- METALS & ALLOYS | Carbon Steel(low carbon, medium carbon , high carbon steel  | Boron  | ASTM E 415: 2015   |



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| 53   | CHEMICAL- METALS & ALLOYS       | Carbon Steel(low carbon, medium carbon , high carbon steel | Niobium  | ASTM E 415: 2015   |
| 54   | CHEMICAL- METALS & ALLOYS       | Carbon Steel(low carbon, medium carbon , high carbon steel | Titanium   | ASTM E 415: 2015   |
| 55   | CHEMICAL- METALS & ALLOYS       | Carbon Steel(low carbon, medium carbon , high carbon steel | Vanadium   | ASTM E 415: 2015   |
| 56   | CHEMICAL- METALS & ALLOYS       | Stainless Steel  | Boron  | ASTM E 1086: 2014  |
| 57   | CHEMICAL- METALS & ALLOYS       | Stainless Steel  | Cobalt   | ASTM E 1086: 2014  |
| 58   | CHEMICAL- METALS & ALLOYS       | Stainless Steel  | Copper   | ASTM E 1086: 2014  |
| 59   | CHEMICAL- METALS & ALLOYS       | Stainless Steel  | Titanium   | ASTM E 1086: 2014  |
| 60   | CHEMICAL- METALS & ALLOYS       | Stainless Steel  | Vanadium   | ASTM E 1086: 2014  |
| 61   | MECHANICAL- BUILDINGS MATERIALS | Cement Concrete Cubes                                      | Compressive Strength   | IS 516: 2013   |
| 62   | MECHANICAL- BUILDINGS MATERIALS | Cement( OPC,PPC,PSC)                                       | Consistency %  | IS 4031 Part 4: 2014   |
| 63   | MECHANICAL- BUILDINGS MATERIALS | Cement(OPC,PPC,PS C)                                       | Compressive Strength   | IS 4031 Part 6: 2014   |



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|------|--------------------------------|------------------------------|--|--|
| 64   | MECHANICAL-BUILDINGS MATERIALS | Cement(OPC,PPC,PS C)         | Initial Setting Time   | IS 4031 Part 5: 2014   |
| 65   | MECHANICAL-BUILDINGS MATERIALS | Cement(OPC,PPC,PS C)         | Soundness(AutoClave)   | IS 4031 Part 3: 2014   |
| 66   | MECHANICAL-BUILDINGS MATERIALS | Cement(OPC/PPC/PS C)         | Final Setting Time   | IS 4031 Part 5: 2014   |
| 67   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate             | 10% Fines Value  | IS 2386 Part4: 2016  |
| 68   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate             | Crushing Value   | IS 2386 Part-4: 2016   |
| 69   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate             | Elongation Index   | IS 2386 Part 1: 2016   |
| 70   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate             | Flakiness Index  | IS 2386 Part 1: 2016   |
| 71   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate             | Impact Value   | IS 2386 Part 4: 2016   |
| 72   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate             | Sieve Analysis (63 mm to 4.75 mm)  | IS 2386 Part1: 2016  |



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|------|--------------------------------|-----------------------------------|--|--|
| 73   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate                  | Specific Gravity   | IS 2386 part-3: 2016   |
| 74   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregate                  | Water Absorption   | IS 2836 Part 3: 2016   |
| 75   | MECHANICAL-BUILDINGS MATERIALS | Coarse Aggregates                 | Los Angles Abrasion  | IS 2386 Part 4: 2016   |
| 76   | MECHANICAL-BUILDINGS MATERIALS | Common Brunt Clay Building Bricks | Efflorescence  | IS 3945 Part 3: 2016   |
| 77   | MECHANICAL-BUILDINGS MATERIALS | Common Burnt Clay Building Bricks | Compressive Strength   | IS 3945 Part 1: 2016   |
| 78   | MECHANICAL-BUILDINGS MATERIALS | Common Burnt Clay Building Bricks | Water Absorption   | IS 3495 Part2: 2016  |
| 79   | MECHANICAL-BUILDINGS MATERIALS | Fine Aggregate                    | Bulk Density   | IS 2386 part 3: 2016   |
| 80   | MECHANICAL-BUILDINGS MATERIALS | Fine Aggregate                    | Specific Gravity   | IS 2386 Part3: 2016  |
| 81   | MECHANICAL-BUILDINGS MATERIALS | Fine Aggregate                    | Water Absorption   | IS 2386 part3: 2016  |





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| 82   | MECHANICAL-BUILDINGS MATERIALS             | Fine Aggregate Testing             | Sieve Analysis (4.75 mm to 0.075 mm)   | IS 2386 part 1: 2016   |
| 83   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product | % Elongation   | IS 1608-Part 1: 2018   |
| 84   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product | % Reduction Area   | IS 1608-Part 1: 2018   |
| 85   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product | Bend Test  | ASTM A 370: 2018   |
| 86   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product | Bend Test  | IS 1599-2012: RA:2017  |
| 87   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product | Brinell Hardness (Dia/Force:5/750)   | IS 1500 Part 1: 2019   |
| 88   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product | Brinell Hardness (Dia/Force:10/3000)   | IS 1500 Part 1: 2019   |



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| 89   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product   | CHARPY IMPACT(V-NOTCH)Temperature Ambient to (-) 50° C   | IS 1757-Part1: 2014  |
| 90   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product   | Re-Bend Test   | IS 1786-2008: RA:2013  |
| 91   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & product   | Universal Tensile Strength   | ASTM A370: 2018  |
| 92   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Material, Alloys & Product   | Yield stress   | IS 1608-Part 1: 2018   |
| 93   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous material, alloys & products  | Yield Stress   | ASTM A 370: 2018   |
| 94   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & Product  | 0.2 % Proof stress   | IS 1608-Part 1 -2018: .  |
| 95   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products | % Elongation   | ASTM A 370: 2018   |



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| 96   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & Products           | % Reduction Area   | ASTM A 370: 2018   |
| 97   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products           | %Elongation  | IS 1608-Part 1: 2018   |
| 98   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products           | 0.2 % Proof stress   | ASTM A 370: 18   |
| 99   | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products           | Yield stress   | IS 1608 - Part 1: 2018   |
| 100  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous materials, alloys & products           | Ultimate Tensile Strength  | IS 1608-Part1: 2018  |
| 101  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupon - All weld sample | Elongation   | IS 7307 Part 1-1974: RA:2019   |
| 102  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupons                  | Root Bend, Face Bend, Side Bend  | ASME Sec IX: 2019  |



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| 103  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupons                  | Root Bend, Face Bend, Side Bend  | IS 7307 Part 1-1974: RA:2019   |
| 104  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupons                  | Root Bend, Face Bend, Side Bend  | AWS D1.1: 2015   |
| 105  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupons                  | Tensile Strength   | ASME Sec IX: 2019  |
| 106  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupons                  | Ultimate Tensile Strength  | AWS D1.1: 2015   |
| 107  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Metals Welded Coupons- All weld sample | Ultimate tensile strength  | IS 7307 Part 1-1974: RA:2019   |
| 108  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Tubes & Pipe                           | Flattening Test  | IS 2328: 2018  |
| 109  | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Tubes & Pipe                           | Flattening Test  | ASTM A 370: 2018   |



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| 110  | MECHANICAL-<br>MECHANICAL<br>PROPERTIES OF<br>METALS | Ferrous, Metals<br>&Alloys Bolt &Screws | Proof load   | IS 1367 Part 3: 2017   |
| 111  | MECHANICAL-<br>MECHANICAL<br>PROPERTIES OF<br>METALS | Ferrous, Metals<br>&Alloys Bolt &Screws | Proof Load   | IS 1367 -Part 6-1994: RA:2015  |
| 112  | MECHANICAL-<br>MECHANICAL<br>PROPERTIES OF<br>METALS | Reinforced steel bars /<br>wires        | Mass/Meter   | IS 1786: 2008  |
| 113  | MECHANICAL-<br>MECHANICAL<br>PROPERTIES OF<br>METALS | Structural Steel                        | Mass/Meter   | IS 808-1989: RA:2014   |
| 114  | MECHANICAL- SOIL<br>AND ROCK                         | Soil                                    | CBR  | IS 2720 Part 16: 2016  |
| 115  | MECHANICAL- SOIL<br>AND ROCK                         | Soil                                    | Free Swell Index   | IS 2720 Part 40: 2016  |
| 116  | MECHANICAL- SOIL<br>AND ROCK                         | Soil                                    | Grain Size Analysis (4.75 mm to<br>0.075 mm)   | IS 2720 Part 4: 2015   |
| 117  | MECHANICAL- SOIL<br>AND ROCK                         | Soil                                    | Heavy Compaction (as % OMC)  | IS 2720 Part 8: 2015   |
| 118  | MECHANICAL- SOIL<br>AND ROCK                         | Soil                                    | Heavy Compaction (as g/cc MDD)   | IS 2720 Part 8: 2015   |
| 119  | MECHANICAL- SOIL<br>AND ROCK                         | SOIL                                    | Light Compaction (as % OMC)  | IS 2720 Part 7: 2016   |



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| 120  | MECHANICAL- SOIL AND ROCK | Soil                         | Light Compaction (as g/cc MDD)   | IS 2720 Part 7: 2016   |
| 121  | MECHANICAL- SOIL AND ROCK | Soil                         | Liquid Limit   | IS 2720 Part 5: 2015   |
| 122  | MECHANICAL- SOIL AND ROCK | Soil                         | Moisture Content   | IS 2720- Part 2: 2015  |
| 123  | MECHANICAL- SOIL AND ROCK | Soil                         | Plastic Limit  | IS 2720 Part 5: 2015   |
| 124  | MECHANICAL- SOIL AND ROCK | Soil                         | Specific Gravity   | IS 2720 Part 3 Sec 2: 2016   |