



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

VAMA METALAB (OPC) PRIVATE LIMITED, GAT NO. 183, PLOT NO. 30, TRINISH PARK, KHED,
CHAKAN, PUNE, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-18085

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Validity

21/05/2026 to 20/05/2030

Last Amended on

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| S.No | Discipline / Group | Materials or Products tested | Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed | Test Method Specification against which tests are performed and / or the techniques / equipment used |
|-------------------|---------------------------|---|--|--|
| Permanent Testing | | | | |
| 1 | CHEMICAL-CORROSION TESTS | Metallic Products and Raw Materials | Neutral Salt Spray Test | ASTM B117 |
| 2 | CHEMICAL-CORROSION TESTS | Metallic Products and Raw Materials | Neutral Salt Spray Test | ISO 9227 |
| 3 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Chromium | ASTM E1251 |
| 4 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Copper | ASTM E1251 |
| 5 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Iron | ASTM E1251 |
| 6 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Lead | ASTM E1251 |
| 7 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Manganese | ASTM E1251 |
| 8 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Magnesium | ASTM E1251 |
| 9 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Nickel | ASTM E1251 |
| 10 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Silicon | ASTM E1251 |
| 11 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Tin | ASTM E1251 |
| 12 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Titanium | ASTM E1251 |
| 13 | CHEMICAL- METALS & ALLOYS | Aluminium and Aluminium Alloy | Zinc | ASTM E1251 |
| 14 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Carbon | IS 9879 |
| 15 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Copper | IS 9879 |
| 16 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Manganese | IS 9879 |



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| 17 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Molybdenum | IS 9879 |
| 18 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Nickel | IS 9879 |
| 19 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Phosphorus | IS 9879 |
| 20 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Silicon | IS 9879 |
| 21 | CHEMICAL- METALS & ALLOYS | Austenitic and Ferritic Stainless Steel | Sulphur | IS 9879 |
| 22 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Carbon | ASTM E1086 |
| 23 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Chromium | ASTM E1086 |
| 24 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Chromium | IS 9879 |
| 25 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Copper | ASTM E1086 |
| 26 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Manganese | ASTM E1086 |
| 27 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Molybdenum | ASTM E1086 |
| 28 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Nickel | ASTM E1086 |
| 29 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Phosphorus | ASTM E1086 |
| 30 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Silicon | ASTM E1086 |
| 31 | CHEMICAL- METALS & ALLOYS | Austenitic Stainless Steel | Sulphur | ASTM E1086 |
| 32 | CHEMICAL- METALS & ALLOYS | Carbon Steel and Low Alloy Steel | Aluminium | ASTM E415 |



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| 33 | CHEMICAL- METALS & ALLOYS | Carbon Steel and Low Alloy Steel | Aluminium | IS 8811 |
| 34 | CHEMICAL- METALS & ALLOYS | Carbon Steel and Low Alloy Steel | Cobalt | ASTM E415 |
| 35 | CHEMICAL- METALS & ALLOYS | Cast Iron | Carbon | ASTM E1999 |
| 36 | CHEMICAL- METALS & ALLOYS | Cast Iron | Chromium | ASTM E1999 |
| 37 | CHEMICAL- METALS & ALLOYS | Cast Iron | Copper | ASTM E1999 |
| 38 | CHEMICAL- METALS & ALLOYS | Cast Iron | Manganese | ASTM E1999 |
| 39 | CHEMICAL- METALS & ALLOYS | Cast Iron | Molybdenum | ASTM E1999 |
| 40 | CHEMICAL- METALS & ALLOYS | Cast Iron | Nickel | ASTM E1999 |
| 41 | CHEMICAL- METALS & ALLOYS | Cast Iron | Phosphorus | ASTM E1999 |
| 42 | CHEMICAL- METALS & ALLOYS | Cast Iron | Silicon | ASTM E1999 |
| 43 | CHEMICAL- METALS & ALLOYS | Cast Iron | Sulphur | ASTM E1999 |
| 44 | CHEMICAL- METALS & ALLOYS | Cast Iron | Titanium | ASTM E1999 |
| 45 | CHEMICAL- METALS & ALLOYS | Cast Iron | Vanadium | ASTM E1999 |
| 46 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Carbon | ASTM E415 |
| 47 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Carbon | IS 8811 |
| 48 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Chromium | ASTM E415 |



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| 49 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Chromium | IS 8811 |
| 50 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Cobalt | IS 8811 |
| 51 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Copper | ASTM E415 |
| 52 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Copper | IS 8811 |
| 53 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Manganese | ASTM E415 |
| 54 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Manganese | IS 8811 |
| 55 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Molybdenum | ASTM E415 |
| 56 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Molybdenum | IS 8811 |
| 57 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Nickel | ASTM E415 |
| 58 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Nickel | IS 8811 |
| 59 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Phosphorus | ASTM E415 |
| 60 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Phosphorus | IS 8811 |
| 61 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Silicon | ASTM E415 |
| 62 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Silicon | IS 8811 |
| 63 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Sulphur | ASTM E415 |
| 64 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Sulphur | IS 8811 |



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| 65 | CHEMICAL- METALS & ALLOYS | Plain Carbon and Low Alloy Steel | Vanadium | ASTM E415 |
| 66 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Material (Ferrous and Non-Ferrous) | % Elongation | IS 1608 (Part 1) |
| 67 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Material (Ferrous and Non-Ferrous) | 0.2 % Proof Stress | IS 1608 (Part 1) |
| 68 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Material (Ferrous and Non-Ferrous) | Tensile Strength | ASTM E8/E8M |
| 69 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Material (Ferrous and Non-Ferrous) | Tensile Strength | IS 1608 (Part 1) |
| 70 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Material (Ferrous and Non-Ferrous) | Yield Strength | ASTM E8/E8M |
| 71 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Material (Ferrous and Non-Ferrous) | Yield Strength | IS 1608 (Part 1) |
| 72 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials (Ferrous and Non-Ferrous (Bars, Rods, Plates, Sheets, Wires, Pipes, Tubes and Machined Components) | 0.2 % Proof Stress | ASTM E8/E8M |
| 73 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Metallic Materials (Ferrous and Non-Ferrous) | Millipore Test with Particles Size | SOP No. 27, Issue No. 01, Issue Date: 03.01.2025 |



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| 74 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Materials (Ferrous and Non-Ferrous) | Millipore Test with Residue Gravimetric Weight | SOP No. 27, Issue No. 01, Issue Date: 03.01.2025 |
| 75 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Metallic Tubes (Circular, Seamless & Welded) | Flattening Test | IS 2328 |
| 76 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Nuts | Proof Load Test | IS 1367 (Part 6) |
| 77 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round Bar, Plates, Sheets, Pipes & Tubes | Bend Test | IS 1599 |
| 78 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, and Other Machined Components | % Elongation | ASTM E8/E8M |
| 79 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, and Other Machined Components | % Reduction in Area | ASTM E8/E8M |
| 80 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, and Other Machined Components | % Reduction in Area | IS 1608 (Part 1) |
| 81 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, and Other Machined Components | Brinell Hardness Test (HBW 2.5/187.5) | IS 1500 (Part 1) |
| 82 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, and Other Machined Components | Rockwell Hardness Test (HRBW) | ASTM E18 |



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| 83 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, and Other Machined Components | Rockwell Hardness Test (HRC) | ASTM E18 |
| 84 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Machined Components | Micro Vickers Hardness Test (HV0.5) | ASTM E384 |
| 85 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Machined Components | Micro Vickers Hardness Test (HV1.0) | ASTM E384 |
| 86 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products | % Elongation | ASTM A370 |
| 87 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products | Reduction in Area | ASTM A370 |
| 88 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products | Tensile Strength | ASTM A370 |
| 89 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Steel Products | Yield Strength | ASTM A370 |
| 90 | MECHANICAL-METALLOGRAPHY TEST | Austenitic Stainless Steel | Susceptibility to Intergranular Attack - Practice B | ASTM A262 |
| 91 | MECHANICAL-METALLOGRAPHY TEST | Austenitic Stainless Steel | Susceptibility to Intergranular Attack - Practice E | ASTM A262 |
| 92 | MECHANICAL-METALLOGRAPHY TEST | Cast Iron | Graphite Microstructure Evaluation | ASTM A247 (Visual Examination) |



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| 93 | MECHANICAL-METALLOGRAPHY TEST | Metals & Alloys (Rolled Bar, Castings, Forgings, Welded Component) | Macro Etch Analysis Test | ASTM E340 |
| 94 | MECHANICAL-METALLOGRAPHY TEST | Metals & Alloys (Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Machined Components) | Average Grain Size | ASTM E112 (Comparison Method) |
| 95 | MECHANICAL-METALLOGRAPHY TEST | Metals & Alloys (Round/Hex/Square Bar, Plate & Sheets, Tubes, Bolts and Other Machined Component) | Microstructural Analysis | ASM Handbook Volume 9 |
| 96 | MECHANICAL-METALLOGRAPHY TEST | Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Components | Local Thickness of Electroplated Coatings | IS 3203 |
| 97 | MECHANICAL-METALLOGRAPHY TEST | Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Machined Components | Microstructural Analysis | ASM Handbook Volume 9 |
| 98 | MECHANICAL-METALLOGRAPHY TEST | Steel & Steel Product | Inclusion Content | ASTM E45 |
| 99 | MECHANICAL-METALLOGRAPHY TEST | Steel & Steel Product | Inclusion Content | IS 4163 |
| 100 | MECHANICAL-METALLOGRAPHY TEST | Steel (Bar, Plates, Tube, Wire & Machine Component) | Depth of Decarburized Layer | IS 6396 (Microscopic Method) |
| 101 | MECHANICAL-METALLOGRAPHY TEST | Steel Components (Bar, Plate, Bolts, Tubes, Machined Part) | Total Case Depth | IS 6416 (Microscopic Method) |
| 102 | MECHANICAL-METALLOGRAPHY TEST | Steel Components (Round/Hex/Square Bar, Plate & Sheets, Tubes, Bolts and Other Machined Component) | Effective Case Depth | IS 6416 (by Micro-Vickers Hardness Traverse Method) |
| 103 | MECHANICAL-METALLOGRAPHY TEST | Steel Product (Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Machined Components) | Apparent Grain Size | IS 4748 (Comparison Method) |
| 104 | MECHANICAL-METALLOGRAPHY TEST | Wrought Steel Product (Round/Hex/Square Bar, Plate & Sheets, Pipes, Tubes, Wires and Other Machined Components) | Macro Etch Analysis Test | IS 11371 |