



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name ADITYAPUR AUTO CLUSTER, PLOT NO.41 & 45 (P) PHASE-VII, TATA KANDRA MAIN ROAD, JAMSHEDPUR, SARIKELA KHARSWAN, JHARKHAND, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5243 Page No. : 1 / 6

Validity 13/01/2019 to 12/01/2021 Last Amended on 12/04/2019

| S.No | Discipline / Group | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing/ Limits of Detection |
|---------------------------|---------------------------|----------------------------|-------------------------|---|---------------------------------------|
| Permanent Facility | | | | | |
| 1 | CHEMICAL- METALS & ALLOYS | Aluminium | Chromium(Cr) | IS 11035: 2000 | 0.010 % to 0.10 % |
| 2 | CHEMICAL- METALS & ALLOYS | Aluminium | Iron(Fe) | IS 11035: 2000 | 0.20 % to 0.60 % |
| 3 | CHEMICAL- METALS & ALLOYS | Aluminium | Magnesium(Mg) | IS 11035: 2000 | 0.018 % to 4.48 % |
| 4 | CHEMICAL- METALS & ALLOYS | Aluminium | Manganese(Mn) | IS 11035: 2000 | 0.023 % to 0.63 % |
| 5 | CHEMICAL- METALS & ALLOYS | Aluminium | Nickel(Ni) | IS 11035: 2000 | 0.009 % to 0.12 % |
| 6 | CHEMICAL- METALS & ALLOYS | Aluminium | Silicon(Si) | IS 11035: 2000 | 0.17 % to 12.42 % |
| 7 | CHEMICAL- METALS & ALLOYS | Aluminium | Titanium(Ti) | IS 11035: 2000 | 0.024 % to 0.059 % |
| 8 | CHEMICAL- METALS & ALLOYS | Aluminium | Zinc(Zn) | IS 11035: 2000 | 0.044 % to 0.12 % |
| 9 | CHEMICAL- METALS & ALLOYS | Cast Iron | carbon(C) | IS 15338: 2003 | 2.91 % to 3.52 % |
| 10 | CHEMICAL- METALS & ALLOYS | Cast Iron | Chromium(Cr) | IS 15338: 2003 | 0.15 % to 0.26 % |
| 11 | CHEMICAL- METALS & ALLOYS | Cast Iron | Manganese(Mn) | IS 15338: 2003 | 0.43 % to 1.30 % |
| 12 | CHEMICAL- METALS & ALLOYS | Cast Iron | Nickel(Ni) | IS 15338: 2003 | 0.012 % to 0.87 % |
| 13 | CHEMICAL- METALS & ALLOYS | Cast Iron | Phosphorus(P) | IS 15338: 2003 | 0.019 % to 0.18 % |



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| 14 | CHEMICAL- METALS & ALLOYS | Cast Iron | Silicon(Si) | IS 15338: 2003 | 1.92 % to 2.49 % |
| 15 | CHEMICAL- METALS & ALLOYS | Cast Iron | Sulfur(S) | IS 15338: 2003 | 0.0072 % to 0.093 % |
| 16 | CHEMICAL- METALS & ALLOYS | Cast Iron | Titanium(Ti) | IS 15338: 2003 | 0.010 % to 0.11 % |
| 17 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Carbon(C) | IS 8811: 2012 | 0.03 % to 1.5 % |
| 18 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Chromium(Cr) | IS 8811: 2012 | 0.01 % to 1.5 % |
| 19 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Manganese(Mn) | IS 8811: 2012 | 0.20 % to 2.0 % |
| 20 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Molybdenum(Mo) | IS 8811: 2012 | 0.10 % to 1.0 % |
| 21 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Nickel(Ni) | IS 8811: 2012 | 0.01 % to 0.50 % |
| 22 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Phosphorus(P) | IS 8811: 2012 | 0.01 % to 0.10 % |
| 23 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Silicon(Si) | IS 8811: 2012 | 0.03 % to 1,50 % |
| 24 | CHEMICAL- METALS & ALLOYS | Low Alloy Steel | Sulfur(S) | IS 8811: 2012 | 0.01 % to 0.10 % |
| 25 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Carbon(C) | IS 9879: 1997 | 0.01 % to 1.10 % |
| 26 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Chromium(Cr) | IS 9879: 1997 | 10.00 % to 28.00 % |
| 27 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Cobalt(Co) | IS 9879: 1997 | 0.10 % to 0.20 % |



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| 28 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Manganese(Mn) | IS 9879: 1997 | 0.50 % to 1.50 % |
| 29 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Molybdenum(Mo) | IS 9879: 1997 | 0.10 % to 2.00 % |
| 30 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Nickel(Ni) | IS 9879: 1997 | 0.10 % to 25.00 % |
| 31 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Niobium(Nb) | IS 9879: 1997 | 0.001 % to 0.10 % |
| 32 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Phosphorus(P) | IS 9879: 1997 | 0.02 % to 0.10 % |
| 33 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Silicon(Si) | IS 9879: 1997 | 0.30 % to 1.00 % |
| 34 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Sulfur(S) | IS 9879: 1997 | 0.003 % to 0.05 % |
| 35 | CHEMICAL- METALS & ALLOYS | Stainless Steel | Titanium(Ti) | IS 9879: 1997 | 0.001 % to 0.05 % |
| 36 | CHEMICAL- RUBBER & RUBBER PRODUCTS | Vulcanized Rubber | Ash Content | IS 3400 (Part-22): 2013 | 0.10 % to 40.0 % |
| 37 | CHEMICAL- RUBBER & RUBBER PRODUCTS | Vulcanized Rubber | Moisture Content | IS 3400 (Part-22): 2013 | 0.10 % to 10.0 % |
| 38 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Bend Test | Steel Sheet & Plate | IS 1599: 2012 | Qualitative(Mandrel Dia. 20, 40 mm) |
| 39 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Bend Test | Weld Metallic Material | EN ISO 5173: 2010 | Qualitative(Mandrel Dia. 20, 40 mm) |



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| 40 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Hardness | Brinell | IS 1500 (Part-1): 2013 | 100 HBW to 450 HBW |
| 41 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Hardness | Brinell | IS 1500 (Part-1): 2013 | 100 HBW to 450 HBW |
| 42 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Hardness | Rockwell | IS 1586 (Part-1)/ ISO 6508-1: 2012 | 40 HRA to 90 HRA |
| 43 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Hardness | Rockwell | IS 1586 (Part-1)/ ISO 6508-1: 2012 | 20 HRBW to 100 HRBW |
| 44 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Hardness | Rockwell | IS 1586 (Part-1)/ ISO 6508-1: 2012 | 20 HRC to 65 HRC |
| 45 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Hardness | Vickers | IS 1501 (Part-1): 2013 | 100 HV to 750 HV |
| 46 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Tensile Test | % Elongation | IS 1608(Part 1): 2018 | 2 % to 65 % |



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| 47 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Tensile Test | % Reduction in Area | IS 1608(Part 1): 2018 | 2 % to 90 % |
| 48 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Tensile Test | Ultimate Tensile Strength | IS 1608(part 1): 2018 | 10 kN to 900 kN |
| 49 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Tensile Test | Yield Strength | IS 1608(Part 1): 2018 | 10 kN to 900 kN |
| 50 | MECHANICAL- METALLOGRAPHY TEST | Cast Iron | Microstructure & Type of Graphite | IS 7754: 2012 | Qualitative |
| 51 | MECHANICAL- METALLOGRAPHY TEST | Ferrous Alloys | Salt Spray Test | ASTM B117-18/ ASTM D610-01: 2011 | Qualitative |
| 52 | MECHANICAL- METALLOGRAPHY TEST | Steel Weld Joint | Micro/ Micro of weld joint including HAZ & Base Metal | IS 3600 (Part-9): 2003 | Qualitative |
| 53 | MECHANICAL- RUBBER AND RUBBER PRODUCTS | Accelerated Ageing and Heat Resistance | % Elongation | IS 3400 (Part-4): 2012 | 0 to 700 % |
| 54 | MECHANICAL- RUBBER AND RUBBER PRODUCTS | Accelerated Ageing and Heat Resistance | Hardness Shore A | IS 3400 (Part-4): 2012 | 10 Shore A to 90 Shore A |
| 55 | MECHANICAL- RUBBER AND RUBBER PRODUCTS | Accelerated Ageing and Heat Resistance | Hardness Shore D | IS 3400 (Part-4): 2012 | 10 Shore D to 90 Shore D |



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| 56 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Accelerated Ageing and Heat Resistance | Tensile Strength | IS 3400 (Part-4): 2012 | 0 kN to 20 kN |
| 57 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Before Ageing | Hardness Shore A | IS 3400 (Part-2): 2012 | 10 Shore A to 90 Shore A |
| 58 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Before Ageing | Hardness Shore D | IS 3400 (Part-2): 2012 | 10 Shore D to 90 Shore D |
| 59 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Vulcanized Rubber | % Elongation | IS 3400 (Part-1): 2012 | 10 to 700 % |
| 60 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Vulcanized Rubber | Compression Set | IS 3400 (Part-X): 2003 | 70 Degree C to 200 Degree C |
| 61 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Vulcanized Rubber | Density | IS 3400 (Part-9): 2014 | 0.5 g/cm ³ to 5 g/cm ³ |
| 62 | MECHANICAL-RUBBER AND RUBBER PRODUCTS | Vulcanized Rubber | Tensile Strength | IS 3400 (Part-1): 2012 | 1 kN to 20 kN |