



# 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
<b>Permanent Facility</b>					
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 <sup>3</sup> to 5 g/cm <sup>3</sup>
62	MECHANICAL-RUBBER AND RUBBER PRODUCTS	Vulcanized Rubber	Tensile Strength	IS 3400 (Part-1): 2012	1 kN to 20 kN