



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**JAWAHARLAL NEHRU ALUMINIUM RESEARCH
DEVELOPMENT AND DESIGN CENTRE**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

AMRAVATI ROAD, WADI, NAGPUR, MAHARASHTRA, INDIA

in the field of

TESTING

Certificate Number: TC-8254

Issue Date: 11/11/2020

Valid Until:

10/11/2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : JAWAHARLAL NEHRU ALUMINIUM RESEARCH DEVELOPMENT AND DESIGN CENTRE,
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Accreditation Standard ISO/IEC 17025:2017

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Validity 11/11/2020 to 10/11/2022 **Last Amended on** 29/09/2021

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 Facility				
1	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Boron (B)	ASTM E1251 - 17a
2	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Antimony (Sb)	ASTM E1251 - 17a
3	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Beryllium (Be)	ASTM E1251 - 17a
4	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Bismuth (Bi)	ASTM E1251 - 17a
5	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Calcium (Ca)	ASTM E1251 - 17a
6	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Chromium (Cr)	ASTM E1251 - 17a
7	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Chromium (Cr)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
8	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Cobalt (Co)	ASTM E1251 - 17a
9	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Copper (Cu)	ASTM E1251 - 17a
10	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Copper (Cu)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
11	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Gallium (Ga)	ASTM E1251 - 17a
12	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Iron (Fe)	ASTM E1251 - 17a
13	CHEMICAL- METALS & ALLOYS	Aluminium and its Alloys	Iron (Fe)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
14	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Lead (Pb)	ASTM E1251 - 17a
15	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Lead (Pb)	JNARDDC/QTP/GDS, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
16	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Magnesium (Mg)	ASTM E1251 - 17a
17	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Magnesium (Mg)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
18	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Manganese (Mn)	ASTM E1251 - 17a



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19	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Manganese (Mn)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
20	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Nickel (Ni)	ASTM E1251 - 17a
21	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Phosphorous (P)	ASTM E1251 - 17a
22	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Silicon (Si)	ASTM E1251 - 17a
23	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Silicon (Si)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
24	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Sodium (Na)	ASTM E1251 - 17a
25	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Strontium (Sr)	ASTM E1251 - 17a
26	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Tin (Sn)	ASTM E1251 - 17a
27	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Titanium (Ti)	ASTM E1251 - 17a
28	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Titanium (Ti)	JNARDDC/QTP/GDS, Issue no. 01 & Issue date 01.06.2018
29	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Vanadium (V)	ASTM E1251 - 17a
30	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Zinc (Zn)	ASTM E1251 - 17a
31	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zinc (Zn)	JNARDDC/QTP/GDS, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
32	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Zirconium (Zr)	ASTM E1251 - 17a
33	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zirconium (Zr)	JNARDDC/QTP/GDS, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
34	CHEMICAL- ORES & MINERALS	Bauxite	Alumina as Al ₂ O ₃	JNARDDC/QTP/XRF, JNARDDC/QTP/WC-AL, Issue no. 01 & Issue date 01.06.2018
35	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide as CaO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
36	CHEMICAL- ORES & MINERALS	Bauxite	Gallium as Ga ₂ O ₃	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018



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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8254	Page No	3 of 6
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37	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide as Fe2O3	JNARDDC/QTP/XRF, JNARDDC/QTP/WC-Fe, Issue no. 01 & Issue date 01.06.2018
38	CHEMICAL- ORES & MINERALS	Bauxite	Loss of Ignition	JNARDDC/QTP/WC-LOI, Issue no. 01 & Issue date 01.06.2018
39	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus as P2O5	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
40	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO2	JNARDDC/QTP/XRF, JNARDDC/QTP/WC-Si, Issue no. 01 & Issue date 01.06.2018
41	CHEMICAL- ORES & MINERALS	Bauxite	Titania as TiO2	JNARDDC/QTP/XRF, JNARDDC/QTP/WC-Ti, Issue no. 01 & Issue date 01.06.2018
42	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium as V2O5	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
43	CHEMICAL- ORES & MINERALS	Chromite	Aluminium as Al2O3	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue Date 01-06-2018
44	CHEMICAL- ORES & MINERALS	Chromite	Chromium as Cr2O3	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue 01, Issue date 01-06-2018
45	CHEMICAL- ORES & MINERALS	Chromite	Cobalt	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
46	CHEMICAL- ORES & MINERALS	Chromite	Loss on Ignition	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
47	CHEMICAL- ORES & MINERALS	Chromite	Magnesium as MgO	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
48	CHEMICAL- ORES & MINERALS	Chromite	Nickel	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
49	CHEMICAL- ORES & MINERALS	Chromite	Phosphorous	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue 01 , Issue Date 01-06-2018
50	CHEMICAL- ORES & MINERALS	Chromite	Silicon as SiO2	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue Date 01-06-2018



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51	CHEMICAL- ORES & MINERALS	Chromite	Sulphur	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue No. 01, Issue date 01-06-2018
52	CHEMICAL- ORES & MINERALS	Chromite	Total Fe	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
53	CHEMICAL- ORES & MINERALS	Iron Ores	Aluminum Oxide as Al ₂ O ₃	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
54	CHEMICAL- ORES & MINERALS	Iron Ores	Calcium Oxide as CaO	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
55	CHEMICAL- ORES & MINERALS	Iron Ores	Magnesium Oxide as MgO	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
56	CHEMICAL- ORES & MINERALS	Iron Ores	Manganese as Mn	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
57	CHEMICAL- ORES & MINERALS	Iron Ores	Phosphorous as P ₂ O ₅	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
58	CHEMICAL- ORES & MINERALS	Iron Ores	Potassium Oxide as K ₂ O	JNARDDC/QTP/FPM - K, Issue no. 01 & Issue date 01.06.2018
59	CHEMICAL- ORES & MINERALS	Iron Ores	Silica as SiO ₂	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
60	CHEMICAL- ORES & MINERALS	Iron Ores	Sodium Oxide as Na ₂ O	JNARDDC/QTP/FPM - Na, Issue no. 01 & Issue date 01.06.2018
61	CHEMICAL- ORES & MINERALS	Iron Ores	Titanium Oxide as TiO ₂	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
62	CHEMICAL- ORES & MINERALS	Iron Ores	Total Iron as Fe	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
63	CHEMICAL- ORES & MINERALS	Lime stone	Alumina as Al ₂ O ₃	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
64	CHEMICAL- ORES & MINERALS	Lime stone	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
65	CHEMICAL- ORES & MINERALS	Lime stone	Iron Oxide as Fe ₂ O ₃	JNARDDC/QTP/XRF/DL-Fe, Issue no. 01 & Issue date 01.06.2018
66	CHEMICAL- ORES & MINERALS	Lime stone	Loss on ignition (LOI)	JNARDDC/QTP/WC-LOI, Issue no. 01 & Issue date 01.06.2018



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67	CHEMICAL- ORES & MINERALS	Lime stone	Magnesium as MgO	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
68	CHEMICAL- ORES & MINERALS	Lime stone	Phosphorus as P2O5	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
69	CHEMICAL- ORES & MINERALS	Lime stone	Potassium Oxide as K2O	JNARDDC/QTP/XRF, JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
70	CHEMICAL- ORES & MINERALS	Lime stone	Silica as SiO2	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
71	CHEMICAL- ORES & MINERALS	Lime stone	Sodium Oxide	JNARDDC/QTP/FPM-LSNa, Issue no. 01 & Issue date 01.06.2018
72	CHEMICAL- ORES & MINERALS	Lime stone	Titanium	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
73	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part -1)
74	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture	IS 1350 (Part -1)
75	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part -1)
76	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	IS 1350 (Part -2)
77	CHEMICAL- SOLID FUELS	Coal	Moisture	IS 1350 (Part -1)
78	CHEMICAL- SOLID FUELS	Coal	Sulphur	IS 1350 (Part -3)
79	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part -1)
80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Sheets, Strips and Flats	0.2% Proof stress	IS1608-Part1
81	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Percentage Elongation	IS1608-Part1
82	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Rockwell Hardness Testing	IS 1586 part 1 -2018 and ASTM E18-20
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Ultimate Tensile Strength	IS1608-Part1
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Upper Yield Strength	IS1608-Part1 & ASTM A370-2020



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85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	0.2% Proof Stress	ASTM E8/E8M
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Compressive Yield Strength	ASTM E9
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Elongation	ASTM E8/E8M
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Rockwell Hardness HRBW	ASTM E18
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Ultimate Tensile Strength (UTS)	ASTM E8/E8M