



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: 11/11/2022

Valid Until:

10/11/2024

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)

Name of Legal Identity : JAWAHARLAL NEHRU ALUMINIUM RESEARCH DEVELOPMENT AND DESIGN
CENTRE

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, AMRAVATI ROAD, WADI, NAGPUR, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8254	Page No	1 of 6
Validity	11/11/2022 to 10/11/2024	Last Amended on	14/12/2022

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 and Its Alloys	Antimony (Sb)	ASTM E1251 - 17a
2	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Bismuth (Bi)	ASTM E1251 - 17a
3	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Chromium (Cr)	ASTM E1251 - 17a
4	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Cobalt (Co)	ASTM E1251 - 17a
5	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Copper (Cu)	ASTM E1251 - 17a
6	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Iron (Fe)	ASTM E1251 - 17a
7	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Lead (Pb)	ASTM E1251 - 17a
8	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Magnesium (Mg)	ASTM E1251 - 17a
9	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Manganese (Mn)	ASTM E1251 - 17a
10	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Nickel (Ni)	ASTM E1251 - 17a
11	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Silicon (Si)	ASTM E1251 - 17a
12	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Tin (Sn)	ASTM E1251 - 17a
13	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Titanium (Ti)	ASTM E1251 - 17a
14	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Vanadium (V)	ASTM E1251 - 17a
15	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Zinc (Zn)	ASTM E1251 - 17a
16	CHEMICAL- METALS & ALLOYS	Aluminium and Its Alloys	Zirconium (Zr)	ASTM E1251 - 17a
17	CHEMICAL- ORES & MINERALS	Bauxite	Alumina as Al ₂ O ₃	JNARDDC/QTP/WCL, Issue No. 01 & Issue Date 01.06.2018
18	CHEMICAL- ORES & MINERALS	Bauxite	Alumina as Al ₂ O ₃	JNARDDC/QTP/XRF Issue No.01 & Issue Date 01.06.2018



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19	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide as CaO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
20	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue No. 01, Issue Date-01.06.2018
21	CHEMICAL- ORES & MINERALS	Bauxite	Gallium as Ga2O3	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
22	CHEMICAL- ORES & MINERALS	Bauxite	Gallium as Ga2O3	JNARDDC/QTP/XRF, Issue No. 01 & Issue Date 01.06.2018
23	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide as Fe2O3	JNARDDC/QTP/WCL, Issue No. 01, Issue date: 01.06.2018
24	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide as Fe2O3	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
25	CHEMICAL- ORES & MINERALS	Bauxite	Loss of Ignition	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
26	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus as P2O5	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
27	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus as P2O5	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
28	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO2	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
29	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO2	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
30	CHEMICAL- ORES & MINERALS	Bauxite	Titanium as TiO2	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
31	CHEMICAL- ORES & MINERALS	Bauxite	Titanium as TiO2	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
32	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium as V2O5	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
33	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium as V2O5	JNARDDC/QTP/XRF, Issue No. 01 & Issue Date : 01.06.2018
34	CHEMICAL- ORES & MINERALS	Chromite	Aluminium as Al2O3	JNARDDC/QTP/XRF Issue 01, Issue Date 01-06-2018
35	CHEMICAL- ORES & MINERALS	Chromite	Chromium as Cr2O3	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
36	CHEMICAL- ORES & MINERALS	Chromite	Cobalt	JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
37	CHEMICAL- ORES & MINERALS	Chromite	Loss on Ignition	JNARDDC/QTP/WCL, Issue 01, Issue date 01-06-2018



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38	CHEMICAL- ORES & MINERALS	Chromite	Magnesium as MgO	JNARDDC/QTP/XRF Issue 01, Issue date 01-06-2018
39	CHEMICAL- ORES & MINERALS	Chromite	Nickel	JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
40	CHEMICAL- ORES & MINERALS	Chromite	Phosphorous	JNARDDC/QTP/ICP, Issue 01, Issue Date 01-06-2018
41	CHEMICAL- ORES & MINERALS	Chromite	Silicon as SiO ₂	JNARDDC/QTP/XRF Issue 01, Issue Date 01-06-2018
42	CHEMICAL- ORES & MINERALS	Chromite	Sulphur	JNARDDC/QTP/ICP Issue No. 01, Issue date 01-06-2018
43	CHEMICAL- ORES & MINERALS	Chromite	Sulphur	JNARDDC/QTP/XRF, issue No. 01, Issue Date:- 01.06.2018
44	CHEMICAL- ORES & MINERALS	Chromite	Total Fe	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
45	CHEMICAL- ORES & MINERALS	Iron Ores	Aluminum Oxide as Al ₂ O ₃	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
46	CHEMICAL- ORES & MINERALS	Iron Ores	Aluminum Oxide as Al ₂ O ₃	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
47	CHEMICAL- ORES & MINERALS	Iron Ores	Calcium Oxide as CaO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
48	CHEMICAL- ORES & MINERALS	Iron Ores	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
49	CHEMICAL- ORES & MINERALS	Iron Ores	Magnesium Oxide as MgO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
50	CHEMICAL- ORES & MINERALS	Iron Ores	Magnesium Oxide as MgO	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
51	CHEMICAL- ORES & MINERALS	Iron Ores	Manganese as Mn	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
52	CHEMICAL- ORES & MINERALS	Iron Ores	Phosphorous as P	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
53	CHEMICAL- ORES & MINERALS	Iron Ores	Phosphorous as P	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
54	CHEMICAL- ORES & MINERALS	Iron Ores	Potassium Oxide as K ₂ O	JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018
55	CHEMICAL- ORES & MINERALS	Iron Ores	Silica as SiO ₂	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
56	CHEMICAL- ORES & MINERALS	Iron Ores	Sodium Oxide as Na ₂ O	JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018



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57	CHEMICAL- ORES & MINERALS	Iron Ores	Titanium Oxide as TiO ₂	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
58	CHEMICAL- ORES & MINERALS	Iron Ores	Titanium Oxide as TiO ₂	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
59	CHEMICAL- ORES & MINERALS	Iron Ores	Total Iron as Fe	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
60	CHEMICAL- ORES & MINERALS	Lime stone	Alumina as Al ₂ O ₃	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
61	CHEMICAL- ORES & MINERALS	Lime stone	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
62	CHEMICAL- ORES & MINERALS	Lime stone	Iron Oxide as Fe ₂ O ₃	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
63	CHEMICAL- ORES & MINERALS	Lime stone	Loss on ignition (LOI)	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
64	CHEMICAL- ORES & MINERALS	Lime stone	Magnesium as MgO	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
65	CHEMICAL- ORES & MINERALS	Lime stone	Phosphorus as P ₂ O ₅	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
66	CHEMICAL- ORES & MINERALS	Lime stone	Potassium Oxide as K ₂ O	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
67	CHEMICAL- ORES & MINERALS	Lime stone	Silica as SiO ₂	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
68	CHEMICAL- ORES & MINERALS	Lime stone	Sodium Oxide as Na ₂ O	JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018
69	CHEMICAL- ORES & MINERALS	Lime stone	Titanium	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
70	CHEMICAL- ORES & MINERALS	Limestone	Phosphorus as P ₂ O ₅	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
71	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part -1)
72	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture	IS 1350 (Part -1)
73	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part -1)
74	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	IS 1350 (Part -2)
75	CHEMICAL- SOLID FUELS	Coal	Moisture	IS 1350 (Part -1)
76	CHEMICAL- SOLID FUELS	Coal	Sulphur	IS 1350 (Part -3)
77	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part -1)



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78	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Sheets, Strips and Flats	0.2% Proof stress	ASTM A370-21
79	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Sheets, Strips and Flats	0.2% Proof stress	IS1608-Part1
80	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Percentage Elongation	ASTM A370-21
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	ASTM E18-22
83	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Rockwell Hardness Testing	IS 1586 part 1
84	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Ultimate Tensile Strength	ASTMA370-21
85	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Ultimate Tensile Strength	IS1608-Part1
86	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Upper Yield Strength	ASTM A370-21
87	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Upper Yield Strength	IS1608-Part1
88	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous Metal and Alloys	0.2% Proof Stress	ASTM B557
89	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	% Elongation	ASTM B557
90	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	0.2% Proof Stress	ASTM E8/E8M-21
91	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Elongation	ASTM E8/E8M-21



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92	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Rockwell Hardness HRBW	ASTM E18-22
93	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Ultimate Tensile Strength (UTS)	ASTM B557
94	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Ultimate Tensile Strength (UTS)	ASTM E8/E8M-21