



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: 11/11/2024

Valid Until: 10/11/2028

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 Entity: 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

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Validity 11/11/2024 to 10/11/2028

Last Amended on 10/12/2024

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- METALS & ALLOYS	Aluminium and its alloys	Antimony	AS 4861
2	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Beryllium	AS 4861
3	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Beryllium	ASTM E1251
4	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Boron	AS 4861
5	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Boron	ASTM E1251
6	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Cadmium	AS 4861
7	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Calcium	AS 4861
8	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Chromium	AS 4861
9	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Chromium	ASTM E1251
10	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Cobalt	AS 4861
11	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Copper	AS 4861
12	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Copper	ASTM E1251
13	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Gallium	AS 4861
14	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Iron	AS 4861
15	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Iron	ASTM E1251
16	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Lead	AS 4861
17	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Lead	ASTM E1251
18	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Lithium	AS 4861
19	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Lithium	ASTM E1251



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20	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Magnesium	AS 4861
21	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Magnesium	ASTM E1251
22	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Manganese	AS 4861
23	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Manganese	ASTM E1251
24	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Nickel	AS 4861
25	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Nickel	ASTM E1251
26	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Silicon	AS 4861
27	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Silicon	ASTM E1251
28	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Sodium	AS 4861
29	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Strontium	AS 4861
30	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Tin	AS 4861
31	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Tin	ASTM E1251
32	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Titanium	AS 4861
33	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Titanium	ASTM E1251
34	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Vanadium	AS 4861
35	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Vanadium	ASTM E1251
36	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zinc	AS 4861
37	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zinc	ASTM E1251
38	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zirconium	AS 4861
39	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Zirconium	ASTM E1251



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40	CHEMICAL- ORES & MINERALS	Bauxite	Alumina as Al ₂ O ₃	JNARDDC/QTP/WCL Issue No.01 & Issue Date 01.06.2018
41	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide as CaO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
42	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue No. 01, Issue Date-01.06.2018
43	CHEMICAL- ORES & MINERALS	Bauxite	Gallium as Ga ₂ O ₃	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
44	CHEMICAL- ORES & MINERALS	Bauxite	Gallium as Ga ₂ O ₃	JNARDDC/QTP/XRF, Issue No. 01 & Issue Date 01.06.2018
45	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide as Fe ₂ O ₃	JNARDDC/QTP/WCL, Issue No. 01, Issue date: 01.06.2018
46	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide as Fe ₂ O ₃	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
47	CHEMICAL- ORES & MINERALS	Bauxite	Loss of Ignition	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
48	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus as P ₂ O ₅	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
49	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus as P ₂ O ₅	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
50	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO ₂	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
51	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO ₂	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
52	CHEMICAL- ORES & MINERALS	Bauxite	Titanium as TiO ₂	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
53	CHEMICAL- ORES & MINERALS	Bauxite	Titanium as TiO ₂	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
54	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium as V ₂ O ₅	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
55	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium as V ₂ O ₅	JNARDDC/QTP/XRF, Issue No. 01 & Issue Date : 01.06.2018
56	CHEMICAL- ORES & MINERALS	Chromite	Aluminium as Al ₂ O ₃	JNARDDC/QTP/XRF Issue 01, Issue Date 01-06-2018
57	CHEMICAL- ORES & MINERALS	Chromite	Chromium as Cr ₂ O ₃	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
58	CHEMICAL- ORES & MINERALS	Chromite	Cobalt	JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
59	CHEMICAL- ORES & MINERALS	Chromite	Loss on Ignition	JNARDDC/QTP/WCL, Issue 01, Issue date 01-06-2018



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60	CHEMICAL- ORES & MINERALS	Chromite	Magnesium as MgO	JNARDDC/QTP/XRF Issue 01, Issue date 01-06-2018
61	CHEMICAL- ORES & MINERALS	Chromite	Nickel	JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018
62	CHEMICAL- ORES & MINERALS	Chromite	Phosphorous	JNARDDC/QTP/ICP, Issue 01, Issue Date 01-06-2018
63	CHEMICAL- ORES & MINERALS	Chromite	Silicon as SiO ₂	JNARDDC/QTP/XRF Issue 01, Issue Date 01-06-2018
64	CHEMICAL- ORES & MINERALS	Chromite	Sulphur	JNARDDC/QTP/ICP Issue No. 01, Issue date 01-06-2018
65	CHEMICAL- ORES & MINERALS	Chromite	Sulphur	JNARDDC/QTP/XRF, issue No. 01, Issue Date:- 01.06.2018
66	CHEMICAL- ORES & MINERALS	Chromite	Total Fe	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
67	CHEMICAL- ORES & MINERALS	Gold Ore	Gold (Au)	JNARDDC/QTP/ICP-MS. Issue no 1 & issue date 01/04/2024.
68	CHEMICAL- ORES & MINERALS	Graphite	Ash	IS 11321
69	CHEMICAL- ORES & MINERALS	Graphite	Fixed Carbon	IS 11321
70	CHEMICAL- ORES & MINERALS	Graphite	Moisture	IS 11321
71	CHEMICAL- ORES & MINERALS	Graphite	Sulphur	IS 11321
72	CHEMICAL- ORES & MINERALS	Graphite	Volatile Matter	IS 11321
73	CHEMICAL- ORES & MINERALS	Iron Ores	Aluminium Oxide as Al ₂ O ₃	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
74	CHEMICAL- ORES & MINERALS	Iron Ores	Calcium Oxide as CaO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
75	CHEMICAL- ORES & MINERALS	Iron Ores	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
76	CHEMICAL- ORES & MINERALS	Iron Ores	Magnesium Oxide as MgO	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
77	CHEMICAL- ORES & MINERALS	Iron Ores	Magnesium Oxide as MgO	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
78	CHEMICAL- ORES & MINERALS	Iron Ores	Manganese as Mn	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
79	CHEMICAL- ORES & MINERALS	Iron Ores	Phosphorous as P	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018



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80	CHEMICAL- ORES & MINERALS	Iron Ores	Phosphorous as P	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
81	CHEMICAL- ORES & MINERALS	Iron Ores	Potassium Oxide as K ₂ O	JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018
82	CHEMICAL- ORES & MINERALS	Iron Ores	Silica as SiO ₂	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
83	CHEMICAL- ORES & MINERALS	Iron Ores	Sodium Oxide as Na ₂ O	JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018
84	CHEMICAL- ORES & MINERALS	Iron Ores	Titanium Oxide as TiO ₂	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
85	CHEMICAL- ORES & MINERALS	Iron Ores	Titanium Oxide as TiO ₂	JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018
86	CHEMICAL- ORES & MINERALS	Iron Ores	Total Iron as Fe	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
87	CHEMICAL- ORES & MINERALS	Lime stone	Alumina as Al ₂ O ₃	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
88	CHEMICAL- ORES & MINERALS	Lime stone	Calcium Oxide as CaO	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
89	CHEMICAL- ORES & MINERALS	Lime stone	Iron Oxide as Fe ₂ O ₃	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
90	CHEMICAL- ORES & MINERALS	Lime stone	Loss on ignition (LOI)	JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018
91	CHEMICAL- ORES & MINERALS	Lime stone	Magnesium as MgO	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
92	CHEMICAL- ORES & MINERALS	Lime stone	Phosphorus as P ₂ O ₅	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
93	CHEMICAL- ORES & MINERALS	Lime stone	Potassium Oxide as K ₂ O	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
94	CHEMICAL- ORES & MINERALS	Lime stone	Silica as SiO ₂	JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018
95	CHEMICAL- ORES & MINERALS	Lime stone	Sodium Oxide as Na ₂ O	JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018
96	CHEMICAL- ORES & MINERALS	Lime stone	Titanium	JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018
97	CHEMICAL- ORES & MINERALS	Limestone	Phosphorus as P ₂ O ₅	JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018
98	CHEMICAL- SOLID FUELS	Coal	Air-dried Moisture	IS 1350 (Part -1)
99	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part -1)



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100	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture (at 60 percent relative humidity and 40°C)	IS 1350 (Part -1)
101	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part -1)
102	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	IS 1350 (Part -2)
103	CHEMICAL- SOLID FUELS	Coal	Sulphur	ASTM D4239
104	CHEMICAL- SOLID FUELS	Coal	Sulphur	IS 1350 (Part -3)
105	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part -1)
106	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Sheets, Strips and Flats	0.2% Proof stress	ASTM A370-21
107	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Bar, Sheets, Strips and Flats	0.2% Proof stress	IS1608-Part1
108	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Percentage Elongation	ASTM A370-21
109	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Percentage Elongation	IS1608-Part1
110	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Rockwell Hardness HRC	ASTM E18-22
111	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Rockwell Hardness HRC	IS 1586 part 1
112	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Ultimate Tensile Strength	ASTMA370-21
113	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Ultimate Tensile Strength	IS1608-Part1
114	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Yield Strength	ASTM A370-21
115	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous Bar, Sheet, Strip and Flats	Yield Strength	IS1608-Part1
116	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non Ferrous Metal and Alloys	0.2% Proof Stress	ASTM B557



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117	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metal and alloys	Rockwell Hardness HRBW	IS 1586 (Part 1)
118	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	0.2% Proof Stress	ASTM E8/E8M-21
119	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Percentage Elongation	ASTM B557
120	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Percentage Elongation	ASTM E8/E8M-21
121	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Rockwell Hardness HRBW	ASTM E18-22
122	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Ultimate Tensile Strength (UTS)	ASTM B557
123	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Non ferrous metals and alloys	Ultimate Tensile Strength (UTS)	ASTM E8/E8M-21