



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



Anuja Anand
Director

N. Venkateswaran
Chief Executive Officer



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Last Amended on

26/03/2025

| 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 |



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| 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 |
| 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 |



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| 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 |
| 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 | Alumina as Al ₂ O ₃ | JNARDDC/QTP/XRF, Issue No. 01, Issue Date-01.06.2018 |
| 42 | CHEMICAL- ORES & MINERALS | Bauxite | Calcium Oxide as CaO | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 43 | CHEMICAL- ORES & MINERALS | Bauxite | Calcium Oxide as CaO | JNARDDC/QTP/XRF, Issue No. 01, Issue Date-01.06.2018 |
| 44 | CHEMICAL- ORES & MINERALS | Bauxite | Gallium as Ga ₂ O ₃ | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 45 | CHEMICAL- ORES & MINERALS | Bauxite | Gallium as Ga ₂ O ₃ | JNARDDC/QTP/XRF, Issue No. 01 & Issue Date 01.06.2018 |
| 46 | CHEMICAL- ORES & MINERALS | Bauxite | Iron Oxide as Fe ₂ O ₃ | JNARDDC/QTP/WCL, Issue No. 01, Issue date: 01.06.2018 |



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| 47 | CHEMICAL- ORES & MINERALS | Bauxite | Iron Oxide as Fe ₂ O ₃ | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 48 | CHEMICAL- ORES & MINERALS | Bauxite | Loss of Ignition | JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018 |
| 49 | CHEMICAL- ORES & MINERALS | Bauxite | Phosphorus as P ₂ O ₅ | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 50 | CHEMICAL- ORES & MINERALS | Bauxite | Phosphorus as P ₂ O ₅ | JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018 |
| 51 | CHEMICAL- ORES & MINERALS | Bauxite | Silica as SiO ₂ | JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018 |
| 52 | CHEMICAL- ORES & MINERALS | Bauxite | Silica as SiO ₂ | JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018 |
| 53 | CHEMICAL- ORES & MINERALS | Bauxite | Titanium as TiO ₂ | JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018 |
| 54 | CHEMICAL- ORES & MINERALS | Bauxite | Titanium as TiO ₂ | JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018 |
| 55 | CHEMICAL- ORES & MINERALS | Bauxite | Vanadium as V ₂ O ₅ | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 56 | CHEMICAL- ORES & MINERALS | Bauxite | Vanadium as V ₂ O ₅ | JNARDDC/QTP/XRF, Issue No. 01 & Issue Date : 01.06.2018 |
| 57 | CHEMICAL- ORES & MINERALS | Chromite | Aluminium as Al ₂ O ₃ | JNARDDC/QTP/XRF Issue 01, Issue Date 01-06-2018 |
| 58 | CHEMICAL- ORES & MINERALS | Chromite | Chromium as Cr ₂ O ₃ | JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018 |



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| 59 | CHEMICAL- ORES & MINERALS | Chromite | Cobalt | JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018 |
| 60 | CHEMICAL- ORES & MINERALS | Chromite | Loss on Ignition | JNARDDC/QTP/WCL, Issue 01, Issue date 01-06-2018 |
| 61 | CHEMICAL- ORES & MINERALS | Chromite | Magnesium as MgO | JNARDDC/QTP/XRF Issue 01, Issue date 01-06-2018 |
| 62 | CHEMICAL- ORES & MINERALS | Chromite | Nickel | JNARDDC/QTP/ICP Issue 01, Issue date 01-06-2018 |
| 63 | CHEMICAL- ORES & MINERALS | Chromite | Phosphorous | JNARDDC/QTP/ICP, Issue 01, Issue Date 01-06-2018 |
| 64 | CHEMICAL- ORES & MINERALS | Chromite | Silicon as SiO ₂ | JNARDDC/QTP/XRF Issue 01, Issue Date 01-06-2018 |
| 65 | CHEMICAL- ORES & MINERALS | Chromite | Sulphur | JNARDDC/QTP/ICP Issue No. 01, Issue date 01-06-2018 |
| 66 | CHEMICAL- ORES & MINERALS | Chromite | Sulphur | JNARDDC/QTP/XRF, issue No. 01, Issue Date:- 01.06.2018 |
| 67 | CHEMICAL- ORES & MINERALS | Chromite | Total Fe | JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018 |
| 68 | CHEMICAL- ORES & MINERALS | Gold Ore | Gold (Au) | JNARDDC/QTP/ICP-MS. Issue no 1 & issue date 01/04/2024. |
| 69 | CHEMICAL- ORES & MINERALS | Graphite | Ash | IS 11321 |
| 70 | CHEMICAL- ORES & MINERALS | Graphite | Fixed Carbon | IS 11321 |
| 71 | CHEMICAL- ORES & MINERALS | Graphite | Moisture | IS 11321 |
| 72 | CHEMICAL- ORES & MINERALS | Graphite | Sulphur | IS 11321 |



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| 73 | CHEMICAL- ORES & MINERALS | Graphite | Volatile Matter | IS 11321 |
| 74 | CHEMICAL- ORES & MINERALS | Iron Ores | Aluminium Oxide as Al ₂ O ₃ | JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018 |
| 75 | CHEMICAL- ORES & MINERALS | Iron Ores | Calcium Oxide as CaO | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 76 | CHEMICAL- ORES & MINERALS | Iron Ores | Calcium Oxide as CaO | JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018 |
| 77 | CHEMICAL- ORES & MINERALS | Iron Ores | Magnesium Oxide as MgO | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 78 | CHEMICAL- ORES & MINERALS | Iron Ores | Magnesium Oxide as MgO | JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018 |
| 79 | CHEMICAL- ORES & MINERALS | Iron Ores | Manganese as Mn | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 80 | CHEMICAL- ORES & MINERALS | Iron Ores | Phosphorous as P | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 81 | CHEMICAL- ORES & MINERALS | Iron Ores | Phosphorous as P | JNARDDC/QTP/XRF, Issue 01, Issue date 01-06-2018 |
| 82 | CHEMICAL- ORES & MINERALS | Iron Ores | Potassium Oxide as K ₂ O | JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018 |
| 83 | CHEMICAL- ORES & MINERALS | Iron Ores | Silica as SiO ₂ | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 84 | CHEMICAL- ORES & MINERALS | Iron Ores | Sodium Oxide as Na ₂ O | JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018 |
| 85 | CHEMICAL- ORES & MINERALS | Iron Ores | Titanium Oxide as TiO ₂ | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |



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| 86 | CHEMICAL- ORES & MINERALS | Iron Ores | Titanium Oxide as TiO ₂ | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 87 | CHEMICAL- ORES & MINERALS | Iron Ores | Total Iron as Fe | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 88 | CHEMICAL- ORES & MINERALS | Lime stone | Alumina as Al ₂ O ₃ | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 89 | CHEMICAL- ORES & MINERALS | Lime stone | Calcium Oxide as CaO | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 90 | CHEMICAL- ORES & MINERALS | Lime stone | Iron Oxide as Fe ₂ O ₃ | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 91 | CHEMICAL- ORES & MINERALS | Lime stone | Loss on ignition (LOI) | JNARDDC/QTP/WCL, Issue no. 01 & Issue date 01.06.2018 |
| 92 | CHEMICAL- ORES & MINERALS | Lime stone | Magnesium as MgO | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 93 | CHEMICAL- ORES & MINERALS | Lime stone | Phosphorus as P ₂ O ₅ | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |
| 94 | CHEMICAL- ORES & MINERALS | Lime stone | Potassium Oxide as K ₂ O | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 95 | CHEMICAL- ORES & MINERALS | Lime stone | Silica as SiO ₂ | JNARDDC/QTP/XRF, Issue no. 01 & Issue date 01.06.2018 |
| 96 | CHEMICAL- ORES & MINERALS | Lime stone | Sodium Oxide as Na ₂ O | JNARDDC/QTP/FPM, Issue no. 01 & Issue date 01.06.2018 |
| 97 | CHEMICAL- ORES & MINERALS | Lime stone | Titanium | JNARDDC/QTP/ICP, Issue no. 01 & Issue date 01.06.2018 |



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| 98 | CHEMICAL- ORES & MINERALS | Limestone | Phosphorus as P2O5 | JNARDDC/QTP/XRF, Issue No. 01, Issue Date: 01.06.2018 |
| 99 | CHEMICAL- SOLID FUELS | Coal | Air-dried Moisture | IS 1350 (Part -1) |
| 100 | CHEMICAL- SOLID FUELS | Coal | Ash | IS 1350 (Part -1) |
| 101 | CHEMICAL- SOLID FUELS | Coal | Equilibrated Moisture (at 60 percent relative humidity and 40°C) | IS 1350 (Part -1) |
| 102 | CHEMICAL- SOLID FUELS | Coal | Fixed Carbon | IS 1350 (Part -1) |
| 103 | CHEMICAL- SOLID FUELS | Coal | Gross Calorific Value (GCV) | IS 1350 (Part -2) |
| 104 | CHEMICAL- SOLID FUELS | Coal | Sulphur | ASTM D4239 |
| 105 | CHEMICAL- SOLID FUELS | Coal | Sulphur | IS 1350 (Part -3) |
| 106 | CHEMICAL- SOLID FUELS | Coal | Volatile Matter | IS 1350 (Part -1) |
| 107 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Bar, Sheets, Strips and Flats | 0.2% Proof stress | ASTM A370-21 |
| 108 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Bar, Sheets, Strips and Flats | 0.2% Proof stress | IS1608-Part1 |
| 109 | MECHANICAL- MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Percentage Elongation | ASTM A370-21 |



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| 110 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Percentage Elongation | IS1608-Part1 |
| 111 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Rockwell Hardness HRC | ASTM E18-22 |
| 112 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Rockwell Hardness HRC | IS 1586 part 1 |
| 113 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Ultimate Tensile Strength | ASTMA370-21 |
| 114 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Ultimate Tensile Strength | IS1608-Part1 |
| 115 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Yield Strength | ASTM A370-21 |
| 116 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Ferrous Bar, Sheet, Strip and Flats | Yield Strength | IS1608-Part1 |
| 117 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non Ferrous Metal and Alloys | 0.2% Proof Stress | ASTM B557 |
| 118 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metal and alloys | Rockwell Hardness HRBW | IS 1586 (Part 1) |



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| 119 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metals and alloys | 0.2% Proof Stress | ASTM E8/E8M-21 |
| 120 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metals and alloys | Percentage Elongation | ASTM B557 |
| 121 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metals and alloys | Percentage Elongation | ASTM E8/E8M-21 |
| 122 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metals and alloys | Rockwell Hardness HRBW | ASTM E18-22 |
| 123 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metals and alloys | Ultimate Tensile Strength (UTS) | ASTM B557 |
| 124 | MECHANICAL-MECHANICAL PROPERTIES OF METALS | Non ferrous metals and alloys | Ultimate Tensile Strength (UTS) | ASTM E8/E8M-21 |