



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ALEX STEWART INTERNATIONAL (INDIA) PRIVATE  
LIMITED**

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

OFFICE NO. 6, 7, 8 & 9, 2ND FLOOR, PLOT NO. 588, WARD NO. 12/C, GANDHIDHAM, GUJARAT, INDIA

in the field of

**TESTING**

Certificate Number: TC-6578

Issue Date: 03/02/2025

Valid Until: 02/02/2029

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](http://www.nabl-india.org))

Name of Legal Entity: ALEX STEWART INTERNATIONAL (INDIA) PRIVATE LIMITED

**Signed for and on behalf of NABL**



Anuja Anand  
Director

N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ALEX STEWART INTERNATIONAL (INDIA) PRIVATE LIMITED, OFFICE NO. 6,  
7, 8 & 9, 2ND FLOOR, PLOT NO. 588, WARD NO. 12/C, GANDHIDHAM,  
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**Accreditation Standard**

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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- ORES & MINERALS	Iron Ore	Alumina	IS 1493 (Part 1)
2	CHEMICAL- ORES & MINERALS	Iron Ore	Loss on Ignition	ISO 11536
3	CHEMICAL- ORES & MINERALS	Iron Ore	Moisture	IMSBC Code, Apdx - 2
4	CHEMICAL- ORES & MINERALS	Iron Ore	Moisture	IS 1493 (Part 1)
5	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorus	IS 1493
6	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	IS 1493 (Part 1)
7	CHEMICAL- ORES & MINERALS	Iron Ore	Sulphur	IS 1493
8	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron	IS 1493 (Part 1)
9	CHEMICAL- ORES & MINERALS	Limestone	Alumina as Al <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3)
10	CHEMICAL- ORES & MINERALS	Limestone	Calcium as CaO	IS 1760 (Part 3)
11	CHEMICAL- ORES & MINERALS	Limestone	Iron as Fe <sub>2</sub> O <sub>3</sub>	ASTM C-25
12	CHEMICAL- ORES & MINERALS	Limestone	Iron as Fe <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3)
13	CHEMICAL- ORES & MINERALS	Limestone	Loss On Ignition	IS 1760 (Part 1)
14	CHEMICAL- ORES & MINERALS	Limestone	Magnesium as MgO	IS 1760 (Part 3)
15	CHEMICAL- ORES & MINERALS	Limestone	Silica as SiO <sub>2</sub>	IS 1760 (Part 2)
16	CHEMICAL- SOLID FUELS	Coal	Ash	ASTM D3174-12
17	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part 1)
18	CHEMICAL- SOLID FUELS	Coal	Ash	ISO 1171
19	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number (CSN)	IS 1353 (Part 1)
20	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number (CSN)	ISO 501
21	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ASTM D3172



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22	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part 1)
23	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ISO 17246
24	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	ASTM D5865 M-19
25	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 (Part 2)
26	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	ISO 1928
27	CHEMICAL- SOLID FUELS	Coal	Hardgrove Grindability Index	ASTM D409/D409 M
28	CHEMICAL- SOLID FUELS	Coal	Hardgrove Grindability Index	IS 4433
29	CHEMICAL- SOLID FUELS	Coal	Hardgrove Grindability Index	ISO 5074
30	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample	ASTM D3173/D3173 M
31	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample (Air Dried Base)	IS 1350 (Part 1)
32	CHEMICAL- SOLID FUELS	Coal	Phosphorus	IS 1350 (Part 5)
33	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ASTM D2961/D2961 M
34	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ASTM D3302/D3302 M
35	CHEMICAL- SOLID FUELS	Coal	Total Moisture	IS 1350 (Part 1)
36	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ISO 589
37	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ASIIPL/GIM/IHM/CC-01
38	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ASTM D4239-18e1 (Method A)
39	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	IS 1350 (Part 3)
40	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ISO 19579
41	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ISO 334
42	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ASTM D3175
43	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS 1350 (Part 1)
44	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ISO 562
45	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Alumina	ASIIPL/GIM/IHM/CC-05
46	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Alumina	IS 1355
47	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Calcium Oxide	ASIIPL/GIM/IHM/CC-06
48	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Calcium Oxide	IS 1355
49	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Ferric Oxide	ASIIPL/GIM/IHM/CC-04 (In-house Validated Method)
50	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Magnesium Oxide	ASIIPL/GIM/IHM/CC-07
51	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Magnesium Oxide	IS 1355
52	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Manganese Oxide	ASIIPL/GIM/IHM/CC-03 (In-house Validated Method)

**This is annexure to 'Certificate of Accreditation' and does not require any signature.**





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53	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Manganese Oxide	IS 1355
54	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Phosphorus Pentoxide	IS 1355
55	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Potassium Oxide	IS 1355
56	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Potassium Oxide	IS 9497
57	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Silica	IS 1355
58	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Sodium Oxide	IS 1355
59	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Sodium Oxide	IS 9497
60	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Sulphur Trioxide	ASTM D 5016
61	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Sulphur Trioxide	IS 1355
62	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Titania	ASIIPL/GIM/IHM/CC-02 (In-house Validated Method)
63	CHEMICAL- SOLID FUELS	Coal & Coke (Ash Composition)	Titania	IS 1355
64	CHEMICAL- SOLID FUELS	Coke	Ash	ASTM D3174-12
65	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part 1)
66	CHEMICAL- SOLID FUELS	Coke	Ash	ISO 1171
67	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index (CRI)	ASTM D5341/D5341 M-19
68	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index (CRI)	IS 4023
69	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index (CRI)	ISO 18894
70	CHEMICAL- SOLID FUELS	Coke	Coke Strength after Reaction (CSR)	ASTM D5341/D5341 M-19
71	CHEMICAL- SOLID FUELS	Coke	Coke Strength after Reaction (CSR)	IS 4023
72	CHEMICAL- SOLID FUELS	Coke	Coke Strength after Reaction (CSR)	ISO 18894
73	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	ASTM D3172-13
74	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	IS 1350 (Part 1)
75	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	ISO 17246
76	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	ASTM D5865 M-19
77	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	IS 1350 (Part 2)
78	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	ISO 1928
79	CHEMICAL- SOLID FUELS	Coke	MICUM (M40) (Mechanical Strength)	IS 1354
80	CHEMICAL- SOLID FUELS	Coke	Moisture	ISO 687
81	CHEMICAL- SOLID FUELS	Coke	Moisture in Analysis Sample	ASTM D3173/D3173 M



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82	CHEMICAL- SOLID FUELS	Coke	Moisture in Analysis Sample (Air Dried Base)	IS 1350 (Part 1)
83	CHEMICAL- SOLID FUELS	Coke	Phosphorus	IS 1350 (Part 5)
84	CHEMICAL- SOLID FUELS	Coke	Total Moisture	IS 1350 (Part 1)
85	CHEMICAL- SOLID FUELS	Coke	Total Moisture	ISO 579
86	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	ASTM D4239-18e1 (Method A)
87	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	IS 1350 (Part 3)
88	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	ISO 19579
89	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	ISO 334
90	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	ASTM D3175
91	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	IS 1350 (Part 1)
92	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	ISO 562
93	CHEMICAL- SOLID FUELS	Petroleum Coke	Ash	ASTM D4422
94	CHEMICAL- SOLID FUELS	Petroleum Coke	Ash	IS 1448 (P : 126)
95	CHEMICAL- SOLID FUELS	Petroleum Coke	Fixed Carbon	ASTM D3172
96	CHEMICAL- SOLID FUELS	Petroleum Coke	Fixed Carbon	IS 1350 (Part 1)
97	CHEMICAL- SOLID FUELS	Petroleum Coke	Gross Calorific Value	ASTM D5865M-19
98	CHEMICAL- SOLID FUELS	Petroleum Coke	Gross Calorific Value	IS 1350 (Part 2)
99	CHEMICAL- SOLID FUELS	Petroleum Coke	Moisture in Analysis Sample	ASTM D3173/D3173 M
100	CHEMICAL- SOLID FUELS	Petroleum Coke	Moisture in Analysis Sample	IS 1448 (P : 132)
101	CHEMICAL- SOLID FUELS	Petroleum Coke	Sulphur	ASTM D4239-18e1 (Method A)
102	CHEMICAL- SOLID FUELS	Petroleum Coke	Sulphur	IS 1448 (P : 33)
103	CHEMICAL- SOLID FUELS	Petroleum Coke	Total Moisture	ASTM D 4931
104	CHEMICAL- SOLID FUELS	Petroleum Coke	Volatile Matter	ASTM D 6374
105	CHEMICAL- SOLID FUELS	Petroleum Coke	Volatile Matter	IS 1448 (P : 134)



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Permanent Site Facility				
1	CHEMICAL- SOLID FUELS	Coke	MICUM (M10) (Mechanical Strength)	ISO 556