National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : LEON INSPECTION & TESTING INDIA PRIVATE LIMITED, NO.4, 1ST & 3RD FLOOR, 5TH CROSS STREET, DR. RADHAKRISHNAN SALAI MYLAPORE, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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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 Facility				
1	CHEMICAL- ORES & MINERALS	Barytes	Barium sulphate	IS 2881
2	CHEMICAL- ORES & MINERALS	Barytes	Density	API 13A
3	CHEMICAL- ORES & MINERALS	Barytes	Moisture	IS 7588
4	CHEMICAL- ORES & MINERALS	Barytes	pH	IS 7588
5	CHEMICAL- ORES & MINERALS	Barytes	Residue greater than 75 micron	API 13A
6	CHEMICAL- ORES & MINERALS	Barytes	Silica	IS 2881
7	CHEMICAL- ORES & MINERALS	Barytes	Water soluble alkaline earth metals as Calcium	API 13A
8	CHEMICAL- ORES & MINERALS	Barytes	Water soluble carbonates	IS 7588
9	CHEMICAL- ORES & MINERALS	Bauxite	Alumina as Al2O3	IS 2000 (Part 3)
10	CHEMICAL- ORES & MINERALS	Bauxite	Calcium as CaO	IS 5949
11	CHEMICAL- ORES & MINERALS	Bauxite	Iron as Fe2O3	IS 2000 (Part 4)
12	CHEMICAL- ORES & MINERALS	Bauxite	Loss on Ignition as LOI	IS 2000 (Part 1)
13	CHEMICAL- ORES & MINERALS	Bauxite	Magnesium as MgO	IS 5949
14	CHEMICAL- ORES & MINERALS	Bauxite	Moisture	ISO 9093
15	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO2	IS 2000 (Part 2)
16	CHEMICAL- ORES & MINERALS	Iron ore	Iron as Fe	IS 1493 (Part 1)
17	CHEMICAL- ORES & MINERALS	Iron ore	Silica as SiO2	IS 1493 (Part 1)
18	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur	IS 1493 (Part 1)

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19	CHEMICAL- ORES & MINERALS	Iron ores	Alumina as Al2O3	IS 1493 (Part 1)
20	CHEMICAL- ORES & MINERALS	Iron ores	Loss on Ignition as LOI	ISO 11536
21	CHEMICAL- ORES & MINERALS	Iron ores	Moisture	IS 1493 (Part 1)
22	CHEMICAL- ORES & MINERALS	Iron ores	Phosphorus	IS 1493 (Part-1)
23	CHEMICAL- SOLID FUELS	Briquettes	Ash	ASTM D 3174
24	CHEMICAL- SOLID FUELS	Briquettes	Ash	IS 1350 (Part 1)
25	CHEMICAL- SOLID FUELS	Briquettes	Ash	ISO 1171
26	CHEMICAL- SOLID FUELS	Briquettes	Fixed Carbon	ASTM D 3172
27	CHEMICAL- SOLID FUELS	Briquettes	Fixed Carbon	IS 1350 (Part 1)
28	CHEMICAL- SOLID FUELS	Briquettes	Fixed Carbon	ISO 17246
29	CHEMICAL- SOLID FUELS	Briquettes	Gross Calorific Value (GCV)	ASTM D 5865
30	CHEMICAL- SOLID FUELS	Briquettes	Gross Calorific Value (GCV)	IS 1350 (Part 2)
31	CHEMICAL- SOLID FUELS	Briquettes	Gross Calorific Value (GCV)	ISO 1928
32	CHEMICAL- SOLID FUELS	Briquettes	Moisture in analysis sample (MAS)	ASTM D 3173 - M17a
33	CHEMICAL- SOLID FUELS	Briquettes	Moisture in analysis sample (MAS)	IS 1350 (Part 1)
34	CHEMICAL- SOLID FUELS	Briquettes	Moisture in analysis sample (MAS)	ISO 11722
35	CHEMICAL- SOLID FUELS	Briquettes	Sulphur	ASTM D 4239 Method A
36	CHEMICAL- SOLID FUELS	Briquettes	Sulphur	IS 1350 (Part 3)
37	CHEMICAL- SOLID FUELS	Briquettes	Sulphur	ISO 19579
38	CHEMICAL- SOLID FUELS	Briquettes	Sulphur	ISO 334
39	CHEMICAL- SOLID FUELS	Briquettes	Volatile matter (VM)	ASTM D 3175
40	CHEMICAL- SOLID FUELS	Briquettes	Volatile matter (VM)	IS 1350 (Part 1)
41	CHEMICAL- SOLID FUELS	Briquettes	Volatile matter (VM)	ISO 562
42	CHEMICAL- SOLID FUELS	Charcoal	Ash	ASTM D 3174
43	CHEMICAL- SOLID FUELS	Charcoal	Ash	IS 1350 (Part 1)
44	CHEMICAL- SOLID FUELS	Charcoal	Ash	ISO 1171

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45	CHEMICAL- SOLID FUELS	Charcoal	Fixed Carbon	ASTM D 3172
46	CHEMICAL- SOLID FUELS	Charcoal	Fixed Carbon	IS 1350 (Part 1)
47	CHEMICAL- SOLID FUELS	Charcoal	Fixed Carbon	ISO 17246
48	CHEMICAL- SOLID FUELS	Charcoal	Gross calorific value (GCV)	ASTM D 5865 M-19
49	CHEMICAL- SOLID FUELS	Charcoal	Gross Calorific Value (GCV)	IS 1350 (Part 2)
50	CHEMICAL- SOLID FUELS	Charcoal	Gross Calorific Value (GCV)	ISO 1928
51	CHEMICAL- SOLID FUELS	Charcoal	Moisture in analysis of sample (MAS)	ASTM D 3173-M-17a
52	CHEMICAL- SOLID FUELS	Charcoal	Moisture in analysis sample (MAS)	IS 1350 (Part 1)
53	CHEMICAL- SOLID FUELS	Charcoal	Moisture in analysis sample (MAS)	ISO 11722
54	CHEMICAL- SOLID FUELS	Charcoal	Sulphur	ASTM D 4239 Method A
55	CHEMICAL- SOLID FUELS	Charcoal	Sulphur	IS 1350 (Part 3)
56	CHEMICAL- SOLID FUELS	Charcoal	Sulphur	ISO 19579
57	CHEMICAL- SOLID FUELS	Charcoal	Sulphur	ISO 334
58	CHEMICAL- SOLID FUELS	Charcoal	Volatile Matter (VM)	ASTM D 3175
59	CHEMICAL- SOLID FUELS	Charcoal	Volatile matter (VM)	IS 1350 (Part 1)
60	CHEMICAL- SOLID FUELS	Charcoal	Volatile matter (VM)	ISO 562
61	CHEMICAL- SOLID FUELS	Coal	As Fusion Temperature (Reducing) Deformation	IS 12891
62	CHEMICAL- SOLID FUELS	Coal	Ash	ASTM D 3174
63	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part 1)
64	CHEMICAL- SOLID FUELS	Coal	Ash	ISO 1171
65	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) - Deformation	ASTM D1857/D1857M-18
66	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) - Deformation	ISO 540
67	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) - Flow	ASTM D1857/D1857M 18
68	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) - Flow	ISO 540
69	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) - Spherical	ASTM D 1857/D 1857M-04

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70	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) - Spherical	ISO 540
71	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) Deformation	IS 12891
72	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) Flow	IS 12891
73	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) Hemispherical	ASTM D1857/D 1857M-04
74	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) Hemispherical	IS 12891
75	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) -Hemispherical	ISO 540
76	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Oxidising) Spherical	IS 12891
77	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Deformation	ASTM D1837/D1837M-18
78	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Deformation	ISO 540
79	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Flow	ASTM D1857/D1857M-18
80	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Hemispherical	ASTM D1857/D1857M-18
81	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Hemispherical	ISO 540
82	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Spherical	ASTM D1857/D1857M-18
83	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) - Spherical	ISO 540
84	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) Flow	IS 12891
85	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) Flow	ISO 540
86	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) Hemispherical	IS 12891
87	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (Reducing) Spherical	IS 12891
88	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ASTM D 3172
89	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part 1)

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90	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ISO 17246
91	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	ASTM D 5865:M
92	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	IS 1350 Part 2
93	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	ISO 1928
94	CHEMICAL- SOLID FUELS	Coal	Hard Grove Grindability Index (HGI)	IS 4433
95	CHEMICAL- SOLID FUELS	Coal	Hard Grove Grindability Index (HGI)	ISO 5074
96	CHEMICAL- SOLID FUELS	Coal	Harg Grove Grindability Index (HGI)	ASTM D 409/D 409 M
97	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample (MAS)	ASTM D3173/D3173M-17a
98	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample (MAS)	IS 1350 (Part 1)
99	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample (MAS)	ISO 11722
100	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Carbon	ASTM D 5373
101	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Carbon	ISO 29541
102	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Hydrogen	ASTM D5373
103	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Hydrogen	ISO 29541
104	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Nitrogen	ASTM D5373
105	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Nitrogen	ISO 29541
106	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Oxygen	ASTM D 3176
107	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Oxygen	ISO 17247
108	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Sulphur	ASTM D4239 Method A
109	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Sulphur	IS 1350 (Part 3)
110	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Sulphur	ISO 19579
111	CHEMICAL- SOLID FUELS	Coal	Ultimate analysis - Sulphur	ISO 334
112	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	ASTM D 3175
113	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	IS 1350 (Part 1)
114	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	ISO 562
115	CHEMICAL- SOLID FUELS	Coke	Ash	ASTM D 3172: 2013:
116	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part 1)

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117	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part 126)
118	CHEMICAL- SOLID FUELS	Coke	Ash	ISO 1171
119	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	ASTM D 3172
120	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	ISO 17246
121	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (GCV)	ASTM D 5865
122	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (GCV)	IS 1350 (Part 2)
123	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (GCV)	ISO 1928
124	CHEMICAL- SOLID FUELS	Coke	Hard Grove Grindability (HGI)	IS 4433
125	CHEMICAL- SOLID FUELS	Coke	Hard Grove Grindability Index (HGI)	ASTM D5003-06a
126	CHEMICAL- SOLID FUELS	Coke	Hard Grove Grindability Index (HGI)	ISO 5074
127	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample (MAS)	ASTM D3173/D3173M-17a
128	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample (MAS)	IS 1350 (Part 1)
129	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample (MAS)	ISO 687
130	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Carbon	ASTM D 5373
131	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Carbon	ISO 29541
132	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Hydrogen	ASTM D 5373
133	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Hydrogen	ISO 29541
134	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Nitrogen	ASTM D 5373
135	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Nitrogen	ISO 29541
136	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Oxygen	ASTM D3176
137	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Oxygen	ISO 17247
138	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Sulphur	ASTM D 4239 Method A
139	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Sulphur	IS 1350 (Part 3)
140	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Sulphur	ISO 19579
141	CHEMICAL- SOLID FUELS	Coke	Ultimate analysis - Sulphur	ISO 334 (Eschka mixture)
142	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	ASTM D 3175
143	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	IS 1350 (Part 1)

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144	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	ISO 562
145	CHEMICAL- SOLID FUELS	Petroleum Coke	Ash	ASTM D 4422
146	CHEMICAL- SOLID FUELS	Petroleum Coke	Ash	IS 1448 (Part 126)
147	CHEMICAL- SOLID FUELS	Petroleum Coke	Ash	ISO 1171
148	CHEMICAL- SOLID FUELS	Petroleum Coke	Fixed Carbon	ASTM D 3172
149	CHEMICAL- SOLID FUELS	Petroleum Coke	Fixed Carbon	IS 1350 (Part 1)
150	CHEMICAL- SOLID FUELS	Petroleum Coke	Fixed Carbon	ISO 17246
151	CHEMICAL- SOLID FUELS	Petroleum Coke	Gross Calorific Value	IS 1350 (Part 2)
152	CHEMICAL- SOLID FUELS	Petroleum Coke	Gross Calorific Value (GCV)	ISO 1928
153	CHEMICAL- SOLID FUELS	Petroleum Coke	Gross Calorific Valur (GCV)	ASTM D 5865
154	CHEMICAL- SOLID FUELS	Petroleum Coke	Hard Grove Grindability Index (HGI)	ASTM D 5003-06a
155	CHEMICAL- SOLID FUELS	Petroleum Coke	Hard Grove Grindability Index (HGI)	IS 4433
156	CHEMICAL- SOLID FUELS	Petroleum Coke	Hard Grove Grindability Index (HGI)	ISO 5074
157	CHEMICAL- SOLID FUELS	Petroleum Coke	Moisture in analysis sample (MAS)	ASTM D 3173-17a
158	CHEMICAL- SOLID FUELS	Petroleum Coke	Moisture in analysis sample (MAS)	IS 1448 (Part 132)
159	CHEMICAL- SOLID FUELS	Petroleum Coke	Moisture in analysis sample (MAS)	ISO 687
160	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Carbon	ASTM D 5373
161	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Carbon	ISO 29541
162	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Hydrogen	ASTM D 5373
163	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Hydrogen	ISO 29541
164	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Nitrogen	ASTM D 5373
165	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate Analysis - Nitrogen	ISO 29541
166	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Oxygen	ASTM D3176
167	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Oxygen	ISO 17247
168	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Sulphur	ASTM D 4239 Method A
169	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Sulphur	IS 1350 (Part 3)
170	CHEMICAL- SOLID FUELS	Petroleum Coke	Ultimate analysis - Sulphur	ISO 19579

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171	CHEMICAL- SOLID FUELS	Petroleum coke	Ultimate analysis - Sulphur	ISO 334
172	CHEMICAL- SOLID FUELS	Petroleum Coke	Volatile matter (VM)	ASTM D 6374-12 e1
173	CHEMICAL- SOLID FUELS	Petroleum Coke	Volatile matter (VM)	IS 1448 (Part 134)
174	CHEMICAL- SOLID FUELS	Petroleum Coke	Volatile matter (VM)	ISO 562