



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

Laboratory Name RCA LABORATORIES, KOLKATA (A DIVISION OF DR. AMIN CONTROLLERS PVT. LTD.), UNIT NO P-27, PHASE1, KASBA INDUSTRIAL ESTATE, ANANDAPUR, KOLKATA, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6187 Page No. : 1 / 17

Validity 21/07/2019 to 20/07/2021 Last Amended on 26/07/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
<b>Permanent Facility</b>				
1	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Manganese	IS : 1559: 1961
2	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Phosphorous	IS : 1559: 1961
3	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Silicon	IS : 1559: 1961
4	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Aluminium	IS : 1559 (Part - V): 2003
5	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Phosphorous	IS : 1559 (Part -4): 1982
6	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Silicon	IS : 1559 (Part - 1): 1988
7	CHEMICAL- METALS & ALLOYS	High Carbon Ferro Chromium	Chromium	IS : 13452 (Part - 5): 2003
8	CHEMICAL- METALS & ALLOYS	High Carbon Ferro Chromium	Phosphorous	IS : 1559: 1961
9	CHEMICAL- METALS & ALLOYS	High Carbon Ferro Chromium	Silicon	IS : 13452 (Part - 1): 1992
10	CHEMICAL- METALS & ALLOYS	Low Carbon Ferro Chromium	Chromium	IS : 13452 (Part - 6): 1997
11	CHEMICAL- METALS & ALLOYS	Low Carbon Ferro Chromium	Phosphorous	IS : 1559: 1961
12	CHEMICAL- METALS & ALLOYS	Low Carbon Ferro Chromium	Silicon	IS : 13452 (Part - 2): 1992
13	CHEMICAL- METALS & ALLOYS	Pig Iron / Cast Iron	Chromium	IS : 12308 (Part - 8): 1997
14	CHEMICAL- METALS & ALLOYS	Pig Iron / Cast Iron	Manganese	IS : 12308 (Part - 10): 1991

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



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
15	CHEMICAL- METALS & ALLOYS	Pig Iron / Cast Iron	Silicon	IS : 12308 (Part - 6): 1991
16	CHEMICAL- METALS & ALLOYS	Pig Iron /Cast Iron	Nickel	IS : 12308 (Part - 7): 1991
17	CHEMICAL- METALS & ALLOYS	Pig Iron /Cast Iron	Phosphorous	IS : 12308 (Part - 5): 1991
18	CHEMICAL- METALS & ALLOYS	Silico Manganese	Manganese	IS : 1559: 1961
19	CHEMICAL- METALS & ALLOYS	Silico Manganese	Phosphorous	IS : 1559: 1961
20	CHEMICAL- METALS & ALLOYS	Silico Manganese	Silicon	IS : 1559: 1961
21	CHEMICAL- ORES & MINERALS	Bauxite	Alumina	IS : 2000 (Part - 3): 1985
22	CHEMICAL- ORES & MINERALS	Bauxite	Alumina	IS : 2000 (Part - 3): 1985
23	CHEMICAL- ORES & MINERALS	Bauxite	Ferric Oxide	IS : 2000 (Part - 4): 1985
24	CHEMICAL- ORES & MINERALS	Bauxite	Ferric Oxide	IS : 2000 (Part - 4): 1985
25	CHEMICAL- ORES & MINERALS	Bauxite	Loss of Ignition	IS : 2000 (Part - 1): 1985
26	CHEMICAL- ORES & MINERALS	Bauxite	Loss of Ignition	IS : 2000 (Part - 1): 1985
27	CHEMICAL- ORES & MINERALS	Bauxite	Silica	IS : 2000(Part - 2): 1985
28	CHEMICAL- ORES & MINERALS	Bauxite	Silica	IS : 2000(Part - 2): 1985



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
29	CHEMICAL- ORES & MINERALS	Chromite Ore	Alumina	Is : 4737: 1982
30	CHEMICAL- ORES & MINERALS	Chromite Ore	Alumina	Is : 4737: 1982
31	CHEMICAL- ORES & MINERALS	Chromite Ore	Calcium Oxide	IS : 4737: 1982
32	CHEMICAL- ORES & MINERALS	Chromite Ore	Calcium Oxide	IS : 4737: 1982
33	CHEMICAL- ORES & MINERALS	Chromite Ore	Chromium Oxide	IS: 4737: 1982
34	CHEMICAL- ORES & MINERALS	Chromite Ore	Chromium Oxide	IS: 4737: 1982
35	CHEMICAL- ORES & MINERALS	Chromite Ore	Magnesium Oxide	Is : 4737: 1982
36	CHEMICAL- ORES & MINERALS	Chromite Ore	Magnesium Oxide	Is : 4737: 1982
37	CHEMICAL- ORES & MINERALS	Chromite Ore	Silica	IS : 4737: 1982
38	CHEMICAL- ORES & MINERALS	Chromite Ore	Silica	IS : 4737: 1982
39	CHEMICAL- ORES & MINERALS	Chromite Ore	Total Iron	Is : 4737: 1982
40	CHEMICAL- ORES & MINERALS	Chromite Ore	Total Iron	Is : 4737: 1982
41	CHEMICAL- ORES & MINERALS	Dolomite	Alumina	IS : 1760 (Part - 3): 1992
42	CHEMICAL- ORES & MINERALS	Dolomite	Alumina	IS : 1760 (Part - 3): 1992



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
43	CHEMICAL- ORES & MINERALS	Dolomite	Calcium Oxide	IS : 1760 (Part - 3): 1992
44	CHEMICAL- ORES & MINERALS	Dolomite	Calcium Oxide	IS : 1760 (Part - 3): 1992
45	CHEMICAL- ORES & MINERALS	Dolomite	Ferric Oxide	CA/KOL/TPM/SOP - 001: 2014
46	CHEMICAL- ORES & MINERALS	Dolomite	Ferric Oxide	CA/KOL/TPM/SOP - 001: 2014
47	CHEMICAL- ORES & MINERALS	Dolomite	Loss of Ignition	IS : 1760 (part - 1): 1991
48	CHEMICAL- ORES & MINERALS	Dolomite	Loss of Ignition	IS : 1760 (part - 1): 1991
49	CHEMICAL- ORES & MINERALS	Dolomite	Magnesium Oxide	IS : 1760(Part - 3): 1992
50	CHEMICAL- ORES & MINERALS	Dolomite	Magnesium Oxide	IS : 1760(Part - 3): 1992
51	CHEMICAL- ORES & MINERALS	Dolomite	Phosphorous	RCA/KOL/TPM/SOP - 002: 2014
52	CHEMICAL- ORES & MINERALS	Dolomite	Phosphorous	RCA/KOL/TPM/SOP - 002: 2014
53	CHEMICAL- ORES & MINERALS	Dolomite	Potassium Oxide	RCA/KOL/TPM/SOP - 003: 2014
54	CHEMICAL- ORES & MINERALS	Dolomite	Potassium Oxide	RCA/KOL/TPM/SOP - 003: 2014
55	CHEMICAL- ORES & MINERALS	Dolomite	Silica	IS : 1760 (Part - 2): 1991
56	CHEMICAL- ORES & MINERALS	Dolomite	Silica	IS : 1760 (Part - 2): 1991



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
57	CHEMICAL- ORES & MINERALS	Dolomite	Sodium Oxide	RCA/KOL/TPM/SOP - 003: 2014
58	CHEMICAL- ORES & MINERALS	Dolomite	Sodium Oxide	RCA/KOL/TPM/SOP - 003: 2014
59	CHEMICAL- ORES & MINERALS	Dolomite	Sulphur	ASTM C 25: 2017
60	CHEMICAL- ORES & MINERALS	Dolomite	Sulphur	ASTM C 25: 2017
61	CHEMICAL- ORES & MINERALS	Gypsum	Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	IS : 1288: 1982
62	CHEMICAL- ORES & MINERALS	Gypsum	Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	IS : 1288: 1982
63	CHEMICAL- ORES & MINERALS	Gypsum	CaO	IS : 1288: 1982
64	CHEMICAL- ORES & MINERALS	Gypsum	CaO	IS : 1288: 1982
65	CHEMICAL- ORES & MINERALS	Gypsum	CaSO <sub>4</sub> .2H <sub>2</sub> O	IS : 1288: 1982
66	CHEMICAL- ORES & MINERALS	Gypsum	CaSO <sub>4</sub> .2H <sub>2</sub> O	IS : 1288: 1982
67	CHEMICAL- ORES & MINERALS	Gypsum	Combine Water	Is : 1288: 1985
68	CHEMICAL- ORES & MINERALS	Gypsum	Free Water	IS : 1288: 1982
69	CHEMICAL- ORES & MINERALS	Gypsum	Free Water	IS : 1288: 1982
70	CHEMICAL- ORES & MINERALS	Gypsum	MgO	IS : 1288: 1982



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
71	CHEMICAL- ORES & MINERALS	Gypsum	MgO	IS : 1288: 1982
72	CHEMICAL- ORES & MINERALS	Gypsum	NaCl	IS : 1288: 1982
73	CHEMICAL- ORES & MINERALS	Gypsum	NaCl	IS : 1288: 1982
74	CHEMICAL- ORES & MINERALS	Gypsum	SiO <sub>2</sub>	IS : 1288: 1982
75	CHEMICAL- ORES & MINERALS	Gypsum	SiO <sub>2</sub>	IS : 1288: 1982
76	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina	ISO 9516 - 1: 2003
77	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina	IS : 1493 (Part 1): 1981
78	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina	ISO 9516 - 1: 2003
79	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina	IS : 1493 (Part 1): 1981
80	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorous	ISO 9516 - 1: 2003
81	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorous	IS : 1493 (Part 1): 1981
82	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorous	IS : 1493 (Part 1): 1981
83	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorous	ISO 9516 - 1: 2003
84	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	ISO 9516 - 1: 2003



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
85	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	IS : 1493 (Part 1): 1981
86	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	IS : 1493 (Part 1): 1981
87	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	ISO 9516 - 1: 2003
88	CHEMICAL- ORES & MINERALS	Iron Ore	Sulphur	ISO 9516 - 1: 2003
89	CHEMICAL- ORES & MINERALS	Iron Ore	Sulphur	IS : 1493: 1959
90	CHEMICAL- ORES & MINERALS	Iron Ore	Sulphur	ISO 9516 - 1: 2003
91	CHEMICAL- ORES & MINERALS	Iron Ore	Sulphur	IS : 1493: 1959
92	CHEMICAL- ORES & MINERALS	Iron Ore	TML & FMP	IMSBC Code Appendix 2, Flow Table Test Method: 2011
93	CHEMICAL- ORES & MINERALS	Iron Ore	TML & FMP	IMSBC Code Appendix 2, Flow Table Test Method: 2011
94	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron	IS : 1493 (Part 1): 1981
95	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron	ISO 9516 - 1: 2003
96	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron	IS : 1493 (Part 1): 1981
97	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron	ISO 9516 - 1: 2003
98	CHEMICAL- ORES & MINERALS	Limestone	Alumina	IS : 1760 (Part - 3): 1992



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
99	CHEMICAL- ORES & MINERALS	Limestone	Alumina	ISO 12677: 2011
100	CHEMICAL- ORES & MINERALS	Limestone	Alumina	IS : 1760 (Part - 3): 1992
101	CHEMICAL- ORES & MINERALS	Limestone	Alumina	ISO 12677: 2011
102	CHEMICAL- ORES & MINERALS	Limestone	Calcium Oxide	IS 1760 (Part - 3): 1992
103	CHEMICAL- ORES & MINERALS	Limestone	Calcium Oxide	ISO 12677: 2011
104	CHEMICAL- ORES & MINERALS	Limestone	Calcium Oxide	ISO 12677: 2011
105	CHEMICAL- ORES & MINERALS	Limestone	Calcium Oxide	IS 1760 (Part - 3): 1992
106	CHEMICAL- ORES & MINERALS	Limestone	Ferric Oxide	ISO 12677: 2011
107	CHEMICAL- ORES & MINERALS	Limestone	Ferric Oxide	RCA/KOL/TPM/SOP - 001: 2014
108	CHEMICAL- ORES & MINERALS	Limestone	Ferric Oxide	ISO 12677: 2011
109	CHEMICAL- ORES & MINERALS	Limestone	Ferric Oxide	RCA/KOL/TPM/SOP - 001: 2014
110	CHEMICAL- ORES & MINERALS	Limestone	Loss of Ignition	IS : 1760(Part - 1): 1991
111	CHEMICAL- ORES & MINERALS	Limestone	Loss of Ignition	IS : 1760(Part - 1): 1991
112	CHEMICAL- ORES & MINERALS	Limestone	Magnesium Oxide	ISO 12677: 2011





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
113	CHEMICAL- ORES & MINERALS	Limestone	Magnesium Oxide	IS : 1760 (Part - 3): 1992
114	CHEMICAL- ORES & MINERALS	Limestone	Magnesium Oxide	IS : 1760 (Part - 3): 1992
115	CHEMICAL- ORES & MINERALS	Limestone	Magnesium Oxide	ISO 12677: 2011
116	CHEMICAL- ORES & MINERALS	Limestone	Phosphorous	RCA/KOL/TPM/SOP - 002: 2014
117	CHEMICAL- ORES & MINERALS	Limestone	Phosphorous	ISO 12677: 2011
118	CHEMICAL- ORES & MINERALS	Limestone	Phosphorous	ISO 12677: 2011
119	CHEMICAL- ORES & MINERALS	Limestone	Phosphorous	RCA/KOL/TPM/SOP - 002: 2014
120	CHEMICAL- ORES & MINERALS	Limestone	Potassium Oxide	ISO 12677: 2011
121	CHEMICAL- ORES & MINERALS	Limestone	Potassium Oxide	RCA/KOL/TPM/SOP - 003: 2014
122	CHEMICAL- ORES & MINERALS	Limestone	Potassium Oxide	ISO 12677: 2011
123	CHEMICAL- ORES & MINERALS	Limestone	Potassium Oxide	RCA/KOL/TPM/SOP - 003: 2014
124	CHEMICAL- ORES & MINERALS	Limestone	Silica	IS : 1760 (Part - 2): 1991
125	CHEMICAL- ORES & MINERALS	Limestone	Silica	ISO 12677: 2011
126	CHEMICAL- ORES & MINERALS	Limestone	Silica	IS : 1760 (Part - 2): 1991



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127	CHEMICAL- ORES & MINERALS	Limestone	Silica	ISO 12677: 2011
128	CHEMICAL- ORES & MINERALS	Limestone	Sodium Oxide	ISO 12677: 2011
129	CHEMICAL- ORES & MINERALS	Limestone	Sodium Oxide	RCA/KOL/TPM/SOP - 003: 2014
130	CHEMICAL- ORES & MINERALS	Limestone	Sodium Oxide	ISO 12677: 2011
131	CHEMICAL- ORES & MINERALS	Limestone	Sodium Oxide	RCA/KOL/TPM/SOP - 003: 2014
132	CHEMICAL- ORES & MINERALS	Limestone	Sulphur	ASTM C 25: 2017
133	CHEMICAL- ORES & MINERALS	Limestone	Sulphur	ISO 12677: 2011
134	CHEMICAL- ORES & MINERALS	Limestone	Sulphur	ISO 12677: 2011
135	CHEMICAL- ORES & MINERALS	Limestone	Sulphur as	ASTM C 25: 2017
136	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina	Is : 1473: 2004
137	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina	Is : 1473: 2004
138	CHEMICAL- ORES & MINERALS	Manganese Ore	Iron	IS : 1473: 2004
139	CHEMICAL- ORES & MINERALS	Manganese Ore	Iron	IS : 1473: 2004
140	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese	IS : 1473: 2004



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141	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese	IS : 1473: 2004
142	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorous	IS : 1473: 2004
143	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorous	IS : 1473: 2004
144	CHEMICAL- ORES & MINERALS	Manganese Ore	Silica	IS : 1473: 2004
145	CHEMICAL- ORES & MINERALS	Manganese Ore	Silica	IS : 1473: 2004
146	CHEMICAL- ORES & MINERALS	Manganese Ore	Sulphur	Is : 1473: 2004
147	CHEMICAL- ORES & MINERALS	Manganese Ore	Sulphur	Is : 1473: 2004
148	CHEMICAL- ORES & MINERALS	Rock Phosphate	Alumina	Is : 11224: 1985
149	CHEMICAL- ORES & MINERALS	Rock Phosphate	Alumina	Is : 11224: 1985
150	CHEMICAL- ORES & MINERALS	Rock Phosphate	Calcium Oxide	IS : 9386: 1979
151	CHEMICAL- ORES & MINERALS	Rock Phosphate	Calcium Oxide	IS : 9386: 1979
152	CHEMICAL- ORES & MINERALS	Rock Phosphate	Carbon Dioxide	IS : 11224: 1985
153	CHEMICAL- ORES & MINERALS	Rock Phosphate	Carbon Dioxide	IS : 11224: 1985
154	CHEMICAL- ORES & MINERALS	Rock Phosphate	Chlorine	IS : 11224: 1985



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
155	CHEMICAL- ORES & MINERALS	Rock Phosphate	Chlorine	IS : 11224: 1985
156	CHEMICAL- ORES & MINERALS	Rock Phosphate	Fluorine	IS : 11224: 1985
157	CHEMICAL- ORES & MINERALS	Rock Phosphate	Fluorine	IS : 11224: 1985
158	CHEMICAL- ORES & MINERALS	Rock Phosphate	Loss of Ignition	IS : 11224: 1985
159	CHEMICAL- ORES & MINERALS	Rock Phosphate	Loss of Ignition	IS : 11224: 1985
160	CHEMICAL- ORES & MINERALS	Rock Phosphate	Magnesium Oxide	IS : 11224: 1985
161	CHEMICAL- ORES & MINERALS	Rock Phosphate	Magnesium Oxide	IS : 11224: 1985
162	CHEMICAL- ORES & MINERALS	Rock Phosphate	Moisture	IS : 11224: 1985
163	CHEMICAL- ORES & MINERALS	Rock Phosphate	Moisture	IS : 11224: 1985
164	CHEMICAL- ORES & MINERALS	Rock Phosphate	Organic Matter	IS: 11224: 1985
165	CHEMICAL- ORES & MINERALS	Rock Phosphate	Organic Matter	IS: 11224: 1985
166	CHEMICAL- ORES & MINERALS	Rock Phosphate	Phosphorous Pentoxide	IS : 11224: 1985
167	CHEMICAL- ORES & MINERALS	Rock Phosphate	Phosphorous Pentoxide	IS : 11224: 1985
168	CHEMICAL- ORES & MINERALS	Rock Phosphate	Potassium Oxide	RCA/KOL/TPM/SOP - 004: 2014



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
169	CHEMICAL- ORES & MINERALS	Rock Phosphate	Potassium Oxide	RCA/KOL/TPM/SOP - 004: 2014
170	CHEMICAL- ORES & MINERALS	Rock Phosphate	Silica	Is : 11224: 1985
171	CHEMICAL- ORES & MINERALS	Rock Phosphate	Silica	Is : 11224: 1985
172	CHEMICAL- ORES & MINERALS	Rock Phosphate	Sodium Oxide	RCA/KOL/TPM/SOP - 004: 2014
173	CHEMICAL- ORES & MINERALS	Rock Phosphate	Sodium Oxide	RCA/KOL/TPM/SOP - 004: 2014
174	CHEMICAL- SOLID FUELS	Coal	Air-dried Moisture	IS : 1350 (Part - I): 1984
175	CHEMICAL- SOLID FUELS	Coal	Air-dried Moisture	ASTM D3173/D2013: 2017
176	CHEMICAL- SOLID FUELS	Coal	Air-dried Moisture	ISO 11722: 2013
177	CHEMICAL- SOLID FUELS	Coal	Ash	IS : 1350 (Part - I): 1984
178	CHEMICAL- SOLID FUELS	Coal	Ash	ISO 1171: 2010
179	CHEMICAL- SOLID FUELS	Coal	Ash	ASTM D3174: 2012
180	CHEMICAL- SOLID FUELS	Coal	Carbon	ASTM D5373: 2016
181	CHEMICAL- SOLID FUELS	Coal	CSN	IS ; 1353: 1993
182	CHEMICAL- SOLID FUELS	Coal	Deformation Temperature	ASTM D1857/D1857M: 2018



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
183	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture	IS 1350 (Part 1): 1984
184	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ISO 17246: 2010
185	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS : 1350 (Part - I): 1984
186	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ASTM D3172: 2013
187	CHEMICAL- SOLID FUELS	Coal	Flow Temperature	ASTM D1857/D1857M: 2018
188	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS : 1350 (Part - II): 2017
189	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	ISO 1928: 2009
190	CHEMICAL- SOLID FUELS	Coal	Gross Calorific value	ASTM D5865: 2013
191	CHEMICAL- SOLID FUELS	Coal	Hemispherical Temperature	ASTM D1857/D1857M: 2018
192	CHEMICAL- SOLID FUELS	Coal	HGI	IS ; 4433: 1979
193	CHEMICAL- SOLID FUELS	Coal	HGI	ASTM D409/D409M: 2016
194	CHEMICAL- SOLID FUELS	Coal	HGI	ASTM D409/D409M: 2016
195	CHEMICAL- SOLID FUELS	Coal	Hydrogen	ASTM D5373: 2016
196	CHEMICAL- SOLID FUELS	Coal	Nitrogen	ASTM D5373: 2016



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
197	CHEMICAL- SOLID FUELS	Coal	Oxygen	ASTM D3176: 2015
198	CHEMICAL- SOLID FUELS	Coal	Phosphorous	IS : 1350 (Part - V): 2017
199	CHEMICAL- SOLID FUELS	Coal	Softening Temperature	ASTM D1857/D1857M: 2018
200	CHEMICAL- SOLID FUELS	Coal	Total Moisture	IS : 1350 (Part - I): 1984
201	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ISO 589: 2008
202	CHEMICAL- SOLID FUELS	Coal	Total Moisture	ASTM D3302/3302M: 2017
203	CHEMICAL- SOLID FUELS	Coal	Total Moisture	IS : 1350 (Part - I): 1984
204	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ISO 334: 2013
205	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	IS : 1350 (Part - III): 1969
206	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ASTM D3175: 2018
207	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ISO 562: 2010
208	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	IS : 1350 (Part - I): 1984 RA 2013
209	CHEMICAL- SOLID FUELS	Coke	Air-dried Moisture	ASTM D3173/D3173M: 2017
210	CHEMICAL- SOLID FUELS	Coke	Air-dried Moisture	ISO 687: 2010



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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
211	CHEMICAL- SOLID FUELS	Coke	Air-dried Moisture	IS : 1350 (Part - I): 1984
212	CHEMICAL- SOLID FUELS	Coke	Ash	IS : 1350 (Part - I): 1984
213	CHEMICAL- SOLID FUELS	Coke	Ash	ISO 1171: 2010
214	CHEMICAL- SOLID FUELS	Coke	Ash	ASTM D3174: 2012
215	CHEMICAL- SOLID FUELS	Coke	Carbon	ASTM D 5373: 2016
216	CHEMICAL- SOLID FUELS	Coke	Deformation Temperature	ASTM D1857/D1857M: 2018
217	CHEMICAL- SOLID FUELS	Coke	Fixed carbon	ASTM D3172: 2013
218	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon	IS : 1350 (Part - I): 1984
219	CHEMICAL- SOLID FUELS	Coke	Flow Temperature	ASTM D1857/D1857M: 2018
220	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	IS : 1350 (Part - II): 2017
221	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	ASTM D5865: 2013
222	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value	ISO 1928: 2009
223	CHEMICAL- SOLID FUELS	Coke	Hemispherical Temperature	ASTM D1857/D1857M: 2018
224	CHEMICAL- SOLID FUELS	Coke	Hydrogen	ASTM D5373: 2016





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S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
225	CHEMICAL- SOLID FUELS	Coke	Nitrogen	ASTM D5373: 2016
226	CHEMICAL- SOLID FUELS	Coke	Oxygen	ASTM D3176: 2015
227	CHEMICAL- SOLID FUELS	Coke	Phosphorous	IS : 1350 (Part - V): 2017
228	CHEMICAL- SOLID FUELS	Coke	Softening Temperature	ASTM D 1857/D1857M: 2018
229	CHEMICAL- SOLID FUELS	Coke	Total Moisture	ASTM D3302/D3302M: 2017
230	CHEMICAL- SOLID FUELS	Coke	Total Moisture	IS : 1350 )Part - I): 1984
231	CHEMICAL- SOLID FUELS	Coke	Total Moisture	ISO 579: 2013
232	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	ISO 334: 2013
233	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	IS : 1350 (Part - III): 1969
234	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	ISO 562: 2010
235	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	ASTM D3175: 2018
236	CHEMICAL- SOLID FUELS	Coke	Volatile Matter	IS : 1350 (Part - I): 1984