National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SGS INDIA PRIVATE LIMITED, H.O.S-3/21, SECTOR-A, ZONE-B, MANCHESWAR INDUSTRIAL ESTATE, BHUBANESWAR, ODISHA, 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	Bauxite	Alumina (Al2O3)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
2	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide (CaO)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
3	CHEMICAL- ORES & MINERALS	Bauxite	Chromium Oxide (Cr2O3)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
4	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide (Fe2O3)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
5	CHEMICAL- ORES & MINERALS	Bauxite	Loss on Ignition (LOI)	IS 2000 P-1:1985
6	CHEMICAL- ORES & MINERALS	Bauxite	Magnesium Oxide (MgO)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
7	CHEMICAL- ORES & MINERALS	Bauxite	Manganese Oxide (MnO)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
8	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus Pentoxide (P2O5)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
9	CHEMICAL- ORES & MINERALS	Bauxite	Potassium Oxide (K2O)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
10	CHEMICAL- ORES & MINERALS	Bauxite	Silica (SiO2)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
11	CHEMICAL- ORES & MINERALS	Bauxite	Sulphur Trioxide (SO3)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
12	CHEMICAL- ORES & MINERALS	Bauxite	Titanium Dioxide (TiO2)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
13	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium Pentoxide (V2O5)	SGSIN-LAB/BBSR-WIXRF-02 Version 1.1
14	CHEMICAL- ORES & MINERALS	Chrome Ore	Alumina (Al2O3)	ISO : 12677
15	CHEMICAL- ORES & MINERALS	Chrome Ore	Alumina (Al2O3)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
16	CHEMICAL- ORES & MINERALS	Chrome Ore	Calcium Oxide (CaO)	ISO : 12677
17	CHEMICAL- ORES & MINERALS	Chrome Ore	Calcium Oxide (CaO)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
18	CHEMICAL- ORES & MINERALS	Chrome ore	Chromic Oxide (Cr2O3)	IS:4737:1982 RA

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19	CHEMICAL- ORES & MINERALS	Chrome Ore	Chromium (Cr)	ISO : 12677
20	CHEMICAL- ORES & MINERALS	Chrome ore	Chromium (Cr)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
21	CHEMICAL- ORES & MINERALS	Chrome Ore	Chromium oxide (Cr2O3)	ISO : 12677
22	CHEMICAL- ORES & MINERALS	Chrome ore	Chromium oxide (Cr2O3)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
23	CHEMICAL- ORES & MINERALS	Chrome Ore	Iron (Fe)	ISO : 12677
24	CHEMICAL- ORES & MINERALS	Chrome Ore	Iron (Fe)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
25	CHEMICAL- ORES & MINERALS	Chrome Ore	Iron Oxide (Fe2O3)	ISO : 12677
26	CHEMICAL- ORES & MINERALS	Chrome Ore	Iron Oxide (Fe2O3)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
27	CHEMICAL- ORES & MINERALS	Chrome Ore	Loss on Ignition (LOI)	SGSIN-LAB/BBSR-WI-11
28	CHEMICAL- ORES & MINERALS	Chrome Ore	Magnesium Oxide (MgO)	ISO : 12677
29	CHEMICAL- ORES & MINERALS	Chrome Ore	Magnesium Oxide (MgO)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
30	CHEMICAL- ORES & MINERALS	Chrome Ore	Manganese Oxide (MnO)	ISO : 12677
31	CHEMICAL- ORES & MINERALS	Chrome Ore	Manganese Oxide (MnO)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
32	CHEMICAL- ORES & MINERALS	Chrome Ore	Silica (SiO2)	ISO : 12677
33	CHEMICAL- ORES & MINERALS	Chrome Ore	Silica (SiO2)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
34	CHEMICAL- ORES & MINERALS	Chrome Ore	Sulphur Trioxide (SO3)	ISO : 12677
35	CHEMICAL- ORES & MINERALS	Chrome ore	Sulphur Trioxide (SO3)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0
36	CHEMICAL- ORES & MINERALS	Chrome Ore	Titania (TiO2)	ISO : 12677
37	CHEMICAL- ORES & MINERALS	Chrome Ore	Titania (TiO2)	SGSIN-LAB/BBSR-WI/XRF-05/Ver 0.0

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38	CHEMICAL- ORES & MINERALS	Chrome Ore	Total Iron(Fe)	IS:4737:1982 RA
39	CHEMICAL- ORES & MINERALS	Iron ore	Alumina (Al2O3)	IS:1493:Part-1:1981 RA
40	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina (Al2O3)	ISO:9516-1
41	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina (Al2O3)	SGSIN-LAB/BBSR-WI 02(IHM) Ver 1.1
42	CHEMICAL- ORES & MINERALS	Iron ore	Alumina (Al2O3)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
43	CHEMICAL- ORES & MINERALS	Iron ore	Calcium Oxide (CaO)	ISO:9516-1
44	CHEMICAL- ORES & MINERALS	Iron ore	Calcium Oxide (CaO)	SGSIN-LAB/BBSR-WIXRF-03 Version 1.1
45	CHEMICAL- ORES & MINERALS	Iron ore	Chromium (Cr)	SGSIN-LAB/BBSR-WIXRF-03 Version 1.1
46	CHEMICAL- ORES & MINERALS	Iron ore	Loss on Ignition (LOI)	SGSIN-LAB/BBSR-WI-08 version 1.0
47	CHEMICAL- ORES & MINERALS	Iron ore	Magnesium Oxide (MgO)	ISO:9516-1
48	CHEMICAL- ORES & MINERALS	Iron ore	Magnesium Oxide (MgO)	SGSIN-LAB/BBSR-WIXRF-03 Version 1.1
49	CHEMICAL- ORES & MINERALS	Iron ore	Manganese (Mn)	ISO:9516-1
50	CHEMICAL- ORES & MINERALS	Iron Ore	Manganese (Mn)	SGSIN-LAB/BBSR-WIXRF-03 Version 1.1
51	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorous (P)	IS:1493 (Part 1) – 1981
52	CHEMICAL- ORES & MINERALS	Iron ore	Phosphorous (P)	ISO:9516-1
53	CHEMICAL- ORES & MINERALS	Iron ore	Phosphorous (P)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
54	CHEMICAL- ORES & MINERALS	Iron ore	Potassium Oxide (K2O)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
55	CHEMICAL- ORES & MINERALS	Iron ore	Silica (SiO2)	IS:1493 (Part 1) –1981 RA
56	CHEMICAL- ORES & MINERALS	Iron ore	Silica (SiO2)	ISO:9516-1

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57	CHEMICAL- ORES & MINERALS	Iron Ore	Silica (SiO2)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
58	CHEMICAL- ORES & MINERALS	Iron ore	Sodium Oxide (Na2O)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
59	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur (S)	IS-1493-1959 RA
60	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur (S)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
61	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur (S)	ISO:9516-1
62	CHEMICAL- ORES & MINERALS	Iron Ore	Titanium Dioxide (TiO2)	ISO:4691
63	CHEMICAL- ORES & MINERALS	Iron Ore	Titanium Dioxide (TiO2)	ISO:9516-1
64	CHEMICAL- ORES & MINERALS	Iron ore	Titanium Dioxide (TiO2)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
65	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron (Fe)	ISO:9516-1
66	CHEMICAL- ORES & MINERALS	Iron ore	Total Iron (Fe)	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.1
67	CHEMICAL- ORES & MINERALS	Iron ore	Total Iron (Fe)	IS:1493:Part-1:1981 RA
68	CHEMICAL- ORES & MINERALS	Iron ore	Total Iron (Fe)	SGSIN-LAB/BBSR-WI-01version 1.1
69	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Alumina (Al2O3)	ASTM C1271-99
70	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Alumina (Al2O3)	IS-1760 (Part-3) -1992 RA
71	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Calcium Oxide (CaO)	ASTM C1271-99
72	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Calcium Oxide (CaO)	IS-1760 (Part-3) -1992 RA
73	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Ferric Oxide (Fe2O3)	ASTM C1271-99
74	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Loss on Ignition (LOI)	IS-1760 (Part-1) -1991 RA
75	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Magnesium Oxide (MgO)	ASTM C1271-99

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76	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Magnesium Oxide (MgO)	IS-1760 (Part-3) -1992 RA
77	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Manganese Oxide (MnO)	ASTM C1271-99
78	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Phosphorus Pentoxide (P2O5)	ASTM C1271-99
79	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Potassium Oxide (K2O)	ASTMC1271-99
80	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Silica (SiO2)	ASTM C1271-99
81	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Silica (SiO2)	IS:1760 (Part 2) - 1991 RA
82	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Strontium Oxide (SrO)	ASTM C1271-99
83	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Sulphur Trioxide (SO3)	ASTM C1271-99
84	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Titanium Dioxide (TiO2)	ASTM C1271-99
85	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina (Al2O3)	SGSIN-LAB/BBSR-WI--07/Version 1.0
86	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina (Al2O3)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
87	CHEMICAL- ORES & MINERALS	Manganese Ore	Calcium Oxide (CaO)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
88	CHEMICAL- ORES & MINERALS	Manganese Ore	Iron (Fe)	IS-1473-2004 RA
89	CHEMICAL- ORES & MINERALS	Manganese ore	Iron (Fe)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
90	CHEMICAL- ORES & MINERALS	Manganese ore	Loss on Ignition (LOI)	SGSIN-LAB/BBSR-WI08 Ver 1.0
91	CHEMICAL- ORES & MINERALS	Manganese Ore	Magnesium Oxide (MgO)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
92	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese (Mn)	IS-1473-2004 RA
93	CHEMICAL- ORES & MINERALS	Manganese ore	Manganese (Mn)	ISO:4298
94	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese (Mn)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1

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Accreditation Standard	ISO/IEC 17025:2017		
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95	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorus (P)	IS:1473
96	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorus (P)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
97	CHEMICAL- ORES & MINERALS	Manganese Ore	Potassium oxide (K2O)	SGSIN-LAB/BBSR-WI XRF-01 Version 1.1
98	CHEMICAL- ORES & MINERALS	Manganese Ore	Silica (SiO2)	IS-1473-2004 :RA
99	CHEMICAL- ORES & MINERALS	Manganese ore	Silica(SiO2)	SGSIN-LAB/BBSR-WI/XRF-01 version 1.1
100	CHEMICAL- ORES & MINERALS	Manganese ore	Sulphur Trioxide (SO3)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
101	CHEMICAL- ORES & MINERALS	Manganese Ore	Titanium Dioxide (TiO2)	SGSIN-LAB/BBSR-WI/XRF-01 Version1.1
102	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Alumina (Al2O3)	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.1
103	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Calcium Oxide (CaO)	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.1
104	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Iron Oxide (Fe2O3)	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.1
105	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Loss on Ignition(LOI)	IS:1917 Part- 1:1991 RA
106	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Potassium Oxide (K2O)	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.1
107	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Silica (SiO2)	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.1
108	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Titanium Dioxide (TiO2)	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.1
109	CHEMICAL- SOLID FUELS	Coal	Ash	ASTM D 3174
110	CHEMICAL- SOLID FUELS	Coal	Ash	IS:1350(Part-1):1984
111	CHEMICAL- SOLID FUELS	Coal	Ash	ISO:1171
112	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Deformation Temperature (DT)	ISO:540
113	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Flow Temperature (FT)	ISO:540

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114	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Fluid Temperature (FT)	ASTM D1857/D1857M
115	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Hemisphere Temperature (HT)	ISO:540
116	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Hemispherical Temperature (HT)	ASTM D1857/D1857M
117	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Initial Deformation Temperature (IDT)	ASTM D1857/D1857M
118	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Softening Temperature (ST)	ASTM D1857/D1857M
119	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Oxidizing: Sphere Temperature (ST)	ISO:540
120	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Deformation Temperature (DT)	ISO:540
121	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Flow Temperature (FT)	ISO:540
122	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Fluid Temperature (FT)	ASTM D1857/D1857M
123	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Hemisphere Temperature (HT)	ISO:540
124	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Hemispherical Temperature (HT)	ASTM D1857/D1857M
125	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Initial Deformation Temperature (IT)	ASTM D1857/D1857M
126	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Softening Temperature (ST)	ASTM D1857/D1857M
127	CHEMICAL- SOLID FUELS	Coal	Ash Fusion Temperature (AFT) Reducing: Sphere Temperature (ST)	ISO:540

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128	CHEMICAL- SOLID FUELS	Coal	Carbon (C)	ISO:29541
129	CHEMICAL- SOLID FUELS	Coal	Carbon (C)	ASTM D5373
130	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number (CSN)	IS:1353 (Part-1)
131	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number (CSN)	ISO 501
132	CHEMICAL- SOLID FUELS	Coal	Equilibrated Mositure at 60% RH & 40deg C	IS:1350 (Part-1):1984
133	CHEMICAL- SOLID FUELS	Coal	Final Fluidity Temperature	ASTMD 2639/D2639M
134	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (FC)	ASTM D3172-13 (Re approved 21)e1
135	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (FC)	IS:1350:Part-1:1984
136	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (FC)	ISO:17246
137	CHEMICAL- SOLID FUELS	Coal	Free Swelling Index (FSI)	ASTMD720/D720M
138	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	ASTM D 5865/D5865M
139	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	IS:1350 Part-2
140	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (GCV)	ISO:1928
141	CHEMICAL- SOLID FUELS	Coal	Hardgrove Grindabilty Index(HGI)	ASTM D409M
142	CHEMICAL- SOLID FUELS	Coal	Hardgrove Grindabilty Index (HGI)	ISO:5074
143	CHEMICAL- SOLID FUELS	Coal	Hydrogen (H)	ISO:29541
144	CHEMICAL- SOLID FUELS	Coal	Hydrogen (H)	ASTM D5373
145	CHEMICAL- SOLID FUELS	Coal	Initial Softening Temperature	ASTMD 2639/D2639M
146	CHEMICAL- SOLID FUELS	Coal	Maximum Fluidity	ASTMD 2639/D2639M
147	CHEMICAL- SOLID FUELS	Coal	Maximum Fluidity Temperature	ASTMD 2639/D2639M
148	CHEMICAL- SOLID FUELS	Coal	Mercury (Hg)	ASTM D6414
149	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample	ASTM D 3173
150	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample	IS:1350:Part-1
151	CHEMICAL- SOLID FUELS	Coal	Moisture in Analysis Sample	ISO:11722
152	CHEMICAL- SOLID FUELS	Coal	Net Calorific Value (NCV)	ASTM D5865
153	CHEMICAL- SOLID FUELS	Coal	Net Calorific Value (NCV)	ISO:1928
154	CHEMICAL- SOLID FUELS	Coal	Nitrogen (N)	ASTM D5373

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155	CHEMICAL- SOLID FUELS	Coal	Nitrogen (N)	ISO:29541
156	CHEMICAL- SOLID FUELS	Coal	Oxygen (O)	ASTM D 3176
157	CHEMICAL- SOLID FUELS	Coal	Oxygen (O)	ISO:17247
158	CHEMICAL- SOLID FUELS	Coal	Phosphorous (P)	ISO:622
159	CHEMICAL- SOLID FUELS	Coal	Plastic Range	ASTMD 2639/D2639M
160	CHEMICAL- SOLID FUELS	Coal	Solidification Temperature	ASTMD 2639/D2639M
161	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	IS: 1350 (part-3)-1969
162	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	ISO:19579
163	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	ASTM D 4239
164	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	ISO 334
165	CHEMICAL- SOLID FUELS	Coal	Total Moisture (TM)	IS-1350 (Part-1) -1984
166	CHEMICAL- SOLID FUELS	Coal	Total Moisture (TM)	ASTM D 3302 M
167	CHEMICAL- SOLID FUELS	Coal	Total Moisture (TM)	ISO:589
168	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	IS-1350 (Part-1) -1984
169	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	ISO:562
170	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	ASTM D3175
171	CHEMICAL- SOLID FUELS	Coal	Washabilty (Sink & Float) test	ISO:7936
172	CHEMICAL- SOLID FUELS	Coal Ash	Manganese Oxide (MnO)	ASTM D4326
173	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis : Potassium Oxide (K2O)	ASTM D4326
174	CHEMICAL- SOLID FUELS	Coal Ash	Ash analysis: Alumina (Al2O3)	ASTM D4326
175	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Calcium oxide (CaO)	ASTM D4326
176	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Ferric Oxide (Fe2O3)	ASTM D4326
177	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Magnesium Oxide(MgO)	ASTM D4326
178	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Silica (SiO2)	ASTM D4326
179	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Sodium Oxide (Na2O)	ASTM D4326
180	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Sulphur Trioxide (SO3)	ASTM D4326
181	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis: Titanium (TiO2)	ASTM D4326

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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
182	CHEMICAL- SOLID FUELS	Coal Ash	Ash Analysis:Phosphorous Pentoxide (P2O5)	ASTM D4326
183	CHEMICAL- SOLID FUELS	Coke	Ash	ASTM D3174-12 (Re approved)
184	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part-1) -1984 Reaff
185	CHEMICAL- SOLID FUELS	Coke	Ash	ISO 1171
186	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Deformation Temperature (DT)	ISO 540
187	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Flow Temperature (FT)	ISO 540
188	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Fluidity Temperature (FT)	ASTMD1857/D1857M
189	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Hemisphere Temperature (HT)	ISO 540
190	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Hemispherical Temperature(HT)	ASTMD1857/D1857M
191	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Initial Deformation Temperature (IDT)	ASTMD1857/D1857M
192	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Softening Temperature (ST)	ASTMD1857/D1857M
193	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Oxidizing Sphere Temperature (ST)	ISO 540
194	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Initial Deformation Temperature(IDT)	ASTM D1857/D1857M
195	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Flow Temperature (FT)	ISO 540
196	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Deformation Temperature (DT)	ISO 540

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197	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Fluidity Temperature (FT)	ASTM D1857/D1857M
198	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Hemisphere Temperature (HT)	ISO 540
199	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Hemispherical Temperature (HT)	ASTM D1857/D1857M
200	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Softening Temperature (ST)	ASTM D1857/D1857M
201	CHEMICAL- SOLID FUELS	Coke	Ash Fusion Temperature(AFT), Reducing Sphere Temperature (ST)	ISO 540
202	CHEMICAL- SOLID FUELS	Coke	Carbon (C)	ISO 29541
203	CHEMICAL- SOLID FUELS	Coke	Carbon (C)	ASTM D5373
204	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon(FC)	ASTM D3172-13 (Re approved
205	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon(FC)	IS 1350 (Part-1) -1984 Reaff
206	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon(FC)	ISO 17246
207	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (GCV)	ASTMD 5865/D5865M
208	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (GCV)	IS 1350(Part-2):
209	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (GCV)	ISO 1928
210	CHEMICAL- SOLID FUELS	Coke	Hydrogen (H)	ASTM D5373
211	CHEMICAL- SOLID FUELS	Coke	Hydrogen (H)	ISO 29541
212	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample	ASTM D3173
213	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample	IS 1350 (Part-1) -1984 Reaff
214	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample	ISO 687
215	CHEMICAL- SOLID FUELS	Coke	Moisture in Analysis Sample	ISO:687
216	CHEMICAL- SOLID FUELS	Coke	Net Calorific Value (NCV)	ASTM D5865
217	CHEMICAL- SOLID FUELS	Coke	Net Calorific Value (NCV)	ISO 1928
218	CHEMICAL- SOLID FUELS	Coke	Nitrogen (N)	ASTM D5373
219	CHEMICAL- SOLID FUELS	Coke	Nitrogen (N)	ISO 29541
220	CHEMICAL- SOLID FUELS	Coke	Oxygen (O)	ASTM D3176

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221	CHEMICAL- SOLID FUELS	Coke	Oxygen (O)	ISO 17247
222	CHEMICAL- SOLID FUELS	Coke	Phosphorous (P)	ISO 622
223	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	ASTM D4239
224	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	IS 1350 (part-3)-1969 Reaff
225	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	ISO 19579
226	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	ISO 334
227	CHEMICAL- SOLID FUELS	Coke	Total moisture (TM)	IS 1350 (Part-1) -1984 Reaff
228	CHEMICAL- SOLID FUELS	Coke	Total moisture (TM)	ISO 579
229	CHEMICAL- SOLID FUELS	Coke	Total Moisture (TM)	ISO:579
230	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	ASTM D3175
231	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	IS-1350 (Part-1) -1984 Reaff
232	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (VM)	ISO 562
233	CHEMICAL- SOLID FUELS	Coke Ash	Alumina (Al2O3)	ASTM D4326
234	CHEMICAL- SOLID FUELS	Coke Ash	Calcium Oxide (CaO)	ASTM D4326
235	CHEMICAL- SOLID FUELS	Coke Ash	Ferric Oxide (Fe2O3)	ASTM D4326
236	CHEMICAL- SOLID FUELS	Coke Ash	Magnesium Oxide (MgO)	ASTM D4326
237	CHEMICAL- SOLID FUELS	Coke Ash	Manganese Oxide (MnO)	ASTM D4326
238	CHEMICAL- SOLID FUELS	Coke Ash	Phosphorus Pent oxide (P2O5)	ASTM D4326
239	CHEMICAL- SOLID FUELS	Coke Ash	Potassium Oxide (K2O)	ASTM D4326
240	CHEMICAL- SOLID FUELS	Coke Ash	Silica (SiO2)	ASTM D4326
241	CHEMICAL- SOLID FUELS	Coke Ash	Sodium Oxide (Na2O)	ASTM D4326
242	CHEMICAL- SOLID FUELS	Coke Ash	Sulphur Trioxide (SO3)	ASTM D4326
243	CHEMICAL- SOLID FUELS	Coke Ash	Titanium (TiO2)	ASTM D4326
244	CHEMICAL- SOLID FUELS	Fly Ash	Alumina (Al2O3)	ASTM D4326
245	CHEMICAL- SOLID FUELS	Fly Ash	Calcium Oxide (CaO)	ASTM D4326
246	CHEMICAL- SOLID FUELS	Fly Ash	Ferric Oxide (Fe2O3)	ASTM D4326
247	CHEMICAL- SOLID FUELS	Fly Ash	Magnesium Oxide (MgO)	ASTM D4326
248	CHEMICAL- SOLID FUELS	Fly Ash	Manganese Oxide (MnO)	ASTM D4326
249	CHEMICAL- SOLID FUELS	Fly Ash	Phosphorus Pent oxide (P2O5)	ASTM D4326
250	CHEMICAL- SOLID FUELS	Fly Ash	Potassium Oxide (K2O)	ASTM D4326

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251	CHEMICAL- SOLID FUELS	Fly Ash	Silica (SiO2)	ASTM D4326
252	CHEMICAL- SOLID FUELS	Fly Ash	Sodium Oxide (Na2O)	ASTM D4326
253	CHEMICAL- SOLID FUELS	Fly Ash	Sulphur Trioxide (SO3)	ASTM D4326
254	CHEMICAL- SOLID FUELS	Fly Ash	Titanium (TiO2)	ASTM D4326
255	CHEMICAL- SOLID FUELS	Pet Coke	Ash	ASTMD 4422
256	CHEMICAL- SOLID FUELS	Pet Coke	Hardgrove Grindabilty Index(HGI)	ASTMD 5003
257	CHEMICAL- SOLID FUELS	Pet Coke	Sulphur(S)	ASTMD 1552
258	CHEMICAL- SOLID FUELS	Pet Coke	Total Moisture (TM)	ASTMD 4931-06 (Re approved)
259	CHEMICAL- SOLID FUELS	Pet Coke	Volatile matter (VM)	ASTMD 6374