



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name	SGS INDIA PRIVATE LIMITED, H.O.S-3/21, SECTOR-A, ZONE-B, MANCHESWAR IND. ESTATE, BHUBANESWAR, KHORDA, ODISHA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5867	Page No. :	1 / 12
Validity	01/04/2019 to 31/03/2021	Last Amended on	12/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
Permanent Facility				
1	CHEMICAL- ORES & MINERALS	Bauxite	Alumina as Al ₂ O ₃	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
2	CHEMICAL- ORES & MINERALS	Bauxite	Calcium Oxide as CaO	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
3	CHEMICAL- ORES & MINERALS	Bauxite	Chromium as Cr ₂ O ₃	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
4	CHEMICAL- ORES & MINERALS	Bauxite	Iron Oxide as Fe ₂ O ₃	SGSIN-LAB/BBSR-WI-XRF-02 Version 1.0: 2016
5	CHEMICAL- ORES & MINERALS	Bauxite	Loss on Ignition as LOI	IS:2000 Part-1: 1985
6	CHEMICAL- ORES & MINERALS	Bauxite	Magnesium Oxide as MgO	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
7	CHEMICAL- ORES & MINERALS	Bauxite	Manganese as MnO ₂	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
8	CHEMICAL- ORES & MINERALS	Bauxite	Phosphorus as P ₂ O ₅	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
9	CHEMICAL- ORES & MINERALS	Bauxite	Potassium Oxide as K ₂ O	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
10	CHEMICAL- ORES & MINERALS	Bauxite	Silica as SiO ₂	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
11	CHEMICAL- ORES & MINERALS	Bauxite	Sulphur as SO ₃	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
12	CHEMICAL- ORES & MINERALS	Bauxite	Titanium Dioxide as TiO ₂	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
13	CHEMICAL- ORES & MINERALS	Bauxite	Vanadium as V ₂ O ₅	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016
14	CHEMICAL- ORES & MINERALS	Bauxite	Zinc as ZnO	SGSIN-LAB/BBSR-WIXRF-02 Version 1.0: 2016

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



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Certificate Number TC-5867 Page No. : 2 / 12

Validity 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
15	CHEMICAL- ORES & MINERALS	Chrome Ore	Alumina as Al ₂ O ₃	IS:4737: 1982
16	CHEMICAL- ORES & MINERALS	Chrome ore	Chromic Oxide as Cr ₂ O ₃	IS:4737: 1982
17	CHEMICAL- ORES & MINERALS	Chrome ore	Silica as SiO ₂	IS:4737: 1982
18	CHEMICAL- ORES & MINERALS	Chrome Ore	Total Iron as Fe	IS:4737: 1982
19	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina as Al ₂ O ₃	SGSIN-LAB/BBSR-WI 02(IHM) Ver 1.1: 2015
20	CHEMICAL- ORES & MINERALS	Iron ore	Alumina as Al ₂ O ₃	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
21	CHEMICAL- ORES & MINERALS	Iron ore	Alumina as Al ₂ O ₃	IS:1493:Part-1: 1981
22	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina as Al ₂ O ₃	ISO:9516-1: 2003
23	CHEMICAL- ORES & MINERALS	Iron ore	Arsenic as As	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
24	CHEMICAL- ORES & MINERALS	Iron ore	Calcium as Calcium Oxide	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
25	CHEMICAL- ORES & MINERALS	Iron ore	Calcium as Calcium Oxide	ISO:9516-1: 2003
26	CHEMICAL- ORES & MINERALS	Iron ore	Chromium as Cr	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
27	CHEMICAL- ORES & MINERALS	Iron ore	Loss on Ignition	SGSIN-LAB/BBSR-WI-08 version 1.0: 2016
28	CHEMICAL- ORES & MINERALS	Iron ore	Magnesium Oxide as MgO	ISO:9516-1: 2003



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Certificate Number TC-5867 Page No. : 3 / 12

Validity 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

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29	CHEMICAL- ORES & MINERALS	Iron ore	Magnesium Oxide as MgO	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
30	CHEMICAL- ORES & MINERALS	Iron ore	Manganese as Mn	ASTM E314: 2016
31	CHEMICAL- ORES & MINERALS	Iron ore	Manganese as Mn	SGSIN-LAB/BBSR/-WI05(IHM) Ver 1.1: 2015
32	CHEMICAL- ORES & MINERALS	Iron ore	Manganese as Mn	ISO:9516-1: 2003
33	CHEMICAL- ORES & MINERALS	Iron Ore	Manganese as Mn	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
34	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorous as P	IS:1493:Part-1: 1981
35	CHEMICAL- ORES & MINERALS	Iron ore	Phosphorous as P	ISO:9516-1: 2003
36	CHEMICAL- ORES & MINERALS	Iron ore	Phosphorous as P	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
37	CHEMICAL- ORES & MINERALS	Iron ore	Phosphorous as P	SGSIN-LAB/BBSR-WI04(IHM) Version1.1: 2015
38	CHEMICAL- ORES & MINERALS	Iron ore	Potassium Oxide as K ₂ O	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
39	CHEMICAL- ORES & MINERALS	Iron ore	Silica as SiO ₂	IS:1493:Part-1: 1981
40	CHEMICAL- ORES & MINERALS	Iron Ore	Silica as SiO ₂	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
41	CHEMICAL- ORES & MINERALS	Iron ore	Silica as SiO ₂	ISO:9516-1: 2003
42	CHEMICAL- ORES & MINERALS	Iron ore	Sodium Oxide as Na ₂ O	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016



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Certificate Number TC-5867 Page No. : 4 / 12

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43	CHEMICAL- ORES & MINERALS	Iron ore	Sodium Oxide as Na ₂ O	ISO:9516-1: 2003
44	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur as S	IS:1493:Part-1: 1981
45	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur as S	ISO:9516-1: 2003
46	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur as S	IS:1493: 1959
47	CHEMICAL- ORES & MINERALS	Iron ore	Sulphur as S	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
48	CHEMICAL- ORES & MINERALS	Iron Ore	Titanium Dioxide as TiO ₂	ISO:9516-1: 2003
49	CHEMICAL- ORES & MINERALS	Iron ore	Titanium Dioxide as TiO ₂	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
50	CHEMICAL- ORES & MINERALS	Iron Ore	Titanium Dioxide as TiO ₂	ISO:4691: 2009
51	CHEMICAL- ORES & MINERALS	Iron ore	Total Iron as Fe	SGSIN-LAB/BBSR-WI-01version 1.1: 2015
52	CHEMICAL- ORES & MINERALS	Iron ore	Total Iron as Fe	IS:1493:Part-1: 1981
53	CHEMICAL- ORES & MINERALS	Iron Ore	Total Iron as Fe	ISO:9516-1: 2003
54	CHEMICAL- ORES & MINERALS	Iron ore	Total Iron as Fe	SGSIN-LAB/BBSR-WI- XRF-03 Version 1.0: 2016
55	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Alumina as Al ₂ O ₃	IS:1760 Part-3: 1992
56	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Alumina as Al ₂ O ₃	ASTM C1271-99: 2012



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Certificate Number TC-5867 Page No. : 5 / 12

Validity 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

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57	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Calcium Oxide as CaO	IS:1760 Part-3: 1992
58	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Calcium Oxide as CaO	ASTM C1271-99: 2012
59	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Ferric Oxide as Fe ₂ O ₃	ASTM C1271-99: 2012
60	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Loss on Ignition as LOI	IS:1760 Part-1: 1991
61	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Magnesium Oxide as MgO	ASTM C1271-99: 2012
62	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Magnesium Oxide as MgO	IS:1760 Part-3: 1992
63	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Manganese as MnO ₂	ASTM C1271-99: 2012
64	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Phosphorus Pentoxide as P ₂ O ₅	ASTM C1271-99: 2012
65	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Potassium Oxide as K ₂ O	ASTMC1271-99: 2012
66	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Silica as SiO ₂	IS:1760 Part-2: 1991
67	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Silica as SiO ₂	ASTM C1271-99: 2012
68	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Strontium as SrO	ASTM C1271-99: 2012
69	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Sulphur as SO ₃	ASTM C1271-99: 2012
70	CHEMICAL- ORES & MINERALS	Lime stone/Dolomite	Titanium Dioxide as TiO ₂	ASTM C1271-99: 2012



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Certificate Number TC-5867 Page No. : 6 / 12

Validity 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

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71	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina as Al ₂ O ₃	SGSIN-LAB/BBSR-WI--07/Version 1.0: 2016
72	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina as Al ₂ O ₃	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
73	CHEMICAL- ORES & MINERALS	Manganese Ore	Calcium Oxide as CaO	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
74	CHEMICAL- ORES & MINERALS	Manganese Ore	Iron as Fe	IS:1473: 2004
75	CHEMICAL- ORES & MINERALS	Manganese ore	Iron as Fe	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
76	CHEMICAL- ORES & MINERALS	Manganese ore	Loss on Ignition as LOI	SGSIN-LAB/BBSR-WI08 Ver 1.0: 2016
77	CHEMICAL- ORES & MINERALS	Manganese Ore	Magnesium Oxide as MgO	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
78	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese as Mn	IS:1473: 2004
79	CHEMICAL- ORES & MINERALS	Manganese ore	Manganese as Mn	ISO:4298: 1984
80	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese as Mn	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
81	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorus as P	IS:1473: 2004
82	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorus as P	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
83	CHEMICAL- ORES & MINERALS	Manganese ore	Silica as SiO ₂	SGSIN-LAB/BBSR-WI/XRF-01 version 1.0: 2016
84	CHEMICAL- ORES & MINERALS	Manganese Ore	Silica as SiO ₂	IS:1473: 2004



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Certificate Number TC-5867 Page No. : 7 / 12

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85	CHEMICAL- ORES & MINERALS	Manganese ore	Sulphur as SO3	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
86	CHEMICAL- ORES & MINERALS	Manganese Ore	Titanium as TiO2	SGSIN-LAB/BBSR-WI/XRF-01 Version1.0: 2016
87	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Alumina as Al2O3	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.0: 2016
88	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Calcium Oxide as CaO	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.0: 2016
89	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Iron oxide as Fe2O3	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.0: 2016
90	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Loss on Ignition as LOI	IS : 1917 Part-1: 1991
91	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Potassium Oxide as K2O	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.0: 2016
92	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Silica as SiO2	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.0: 2016
93	CHEMICAL- ORES & MINERALS	Quartzite/Silica Sand	Titanium dioxide as TiO2	SGSIN-LAB/BBSR-WI/XRF-04 Version 1.0: 2016
94	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number as CSN	IS:1353: 2010
95	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture at 60% RH & 40deg C	IS:1350:Part-1: 1984
96	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample	ISO:11722: 2013
97	CHEMICAL- SOLID FUELS	Coal/Coke	Ash	ASTM D 3174: 2012
98	CHEMICAL- SOLID FUELS	Coal/Coke	Ash	IS:1350:Part-1: 2013



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5867 Page No. : 8 / 12

Validity 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
99	CHEMICAL- SOLID FUELS	Coal/Coke	Ash	ISO:1171: 2010
100	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing:Flow Temperature(FT)	ASTMD1857/ASTMD1857M-17: 2017
101	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Flow Temperature(FT)	ISO:540: 2008
102	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Hemispherical Temperature(HT)	ASTMD1857/D1857M: 2017
103	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Hemispherical Temperature(HT)	ISO:540: 2008
104	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Initial Deformation Temperature (IDT)	ASTM D1857/D1857M: 2017
105	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Initial Deformation Temperature (IDT)	ISO:540: 2008
106	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Spherical Temperature (ST)	ASTM D1857/1857M: 2017
107	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing: Spherical Temperature(ST)	ISO:540: 2008
108	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature (AFT) oxidizing:Flow Temperature(FT)	ASTM D1857/D1857M: 2017
109	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing:Spherical Temperature (ST)	ASTMD1857/ASTMD1857M-17: 2017



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5867 Page No. : 9 / 12

Validity 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

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110	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing: Initial Deformation Temperature(IDT)	ISO:540: 2008
111	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing: Flow Temperature(FT)	ISO:540: 2008
112	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing: Hemispherical Temperature(HT)	ASTMD1857/ASTMD1857M-17: 2017
113	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing: Hemispherical Temperature(HT)	ISO:540: 2008
114	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing: Spherical Temperature(ST)	ISO:540: 2008
115	CHEMICAL- SOLID FUELS	Coal/Coke	Ash Fusion Temperature(AFT) Reducing:Initial Deformation Temperature(IDT)	ASTMD1857/ASTMD1857M-17: 2017
116	CHEMICAL- SOLID FUELS	Coal/Coke	Fixed carbon as FC	IS:1350:Part-1:1984: 2013
117	CHEMICAL- SOLID FUELS	Coal/Coke	Fixed Carbon as FC	ASTM D 3172: 2013
118	CHEMICAL- SOLID FUELS	Coal/Coke	Fixed Carbon as FC	ISO:17246: 2010
119	CHEMICAL- SOLID FUELS	Coal/Coke	Gross calorific value as GCV	ASTMD 5865: 2013
120	CHEMICAL- SOLID FUELS	Coal/Coke	Gross Calorific value as GCV	ISO:1928: 2009
121	CHEMICAL- SOLID FUELS	Coal/Coke	Gross calorific value as GCV	IS:1350 Part-2: 2017



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5867 Page No. : 10 / 12

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122	CHEMICAL- SOLID FUELS	Coal/Coke	Hardgrove Grindability Index(HGI)	ASTM D409M: 2016
123	CHEMICAL- SOLID FUELS	Coal/Coke	Hardgrove Grindability Index as HGI	ISO:5074: 2015
124	CHEMICAL- SOLID FUELS	Coal/Coke	Mercury as Hg	ASTM D 6414-Method-A: 2014
125	CHEMICAL- SOLID FUELS	Coal/Coke	Moisture in analysis sample	ASTM D 3173: 2017
126	CHEMICAL- SOLID FUELS	Coal/Coke	Moisture in analysis sample as IM	IS:1350:Part-1: 2013
127	CHEMICAL- SOLID FUELS	Coal/Coke	Net calorific value as NCV	ISO:1928: 2008
128	CHEMICAL- SOLID FUELS	Coal/Coke	Net calorific value as NCV	ASTM D5865: 2013
129	CHEMICAL- SOLID FUELS	Coal/Coke	Phosphorous as P	ISO:622: 2016
130	CHEMICAL- SOLID FUELS	Coal/Coke	Sulphur as S	IS:1350 Part-3: 2015
131	CHEMICAL- SOLID FUELS	Coal/Coke	Sulphur as S	ISO:19579: 2006
132	CHEMICAL- SOLID FUELS	Coal/Coke	Sulphur as S	ASTM D 4239: 2014
133	CHEMICAL- SOLID FUELS	Coal/Coke	Total Moisture as TM	ASTM D 3302 M: 2017
134	CHEMICAL- SOLID FUELS	Coal/Coke	Total Moisture as TM	IS:1350:Part-1: 2013
135	CHEMICAL- SOLID FUELS	Coal/Coke	Total Moisture as TM	ISO:579: 2013



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Accreditation Standard: ISO/IEC 17025:2017

Certificate Number: TC-5867 Page No. : 11 / 12

Validity: 01/04/2019 to 31/03/2021 Last Amended on 12/04/2019

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136	CHEMICAL- SOLID FUELS	Coal/Coke	Total Moisture as TM	ISO:589: 2008
137	CHEMICAL- SOLID FUELS	Coal/coke	Ultimate Analysis (C H N O):Oxygen as O	ISO:17247: 2013
138	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis (C,H,N,O): Oxygen as O	ASTM D3180: 2015
139	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis(C H N O): Carbon as C	ISO:29541: 2010
140	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis(C H N O): Hydrogen as H	ISO:29541: 2010
141	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis(C H N O): Nitrogen as N	ISO:29541: 2010
142	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis(C,H,N,O): Carbon as C	ASTM D5373: 2016
143	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis(C,H,N,O): Hydrogen as H	ASTM D5373: 2016
144	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate Analysis(C,H,N,O): Nitrogen as N	ASTM D5373: 2016
145	CHEMICAL- SOLID FUELS	Coal/Coke	Ultimate analysis(C,H,N,O): Oxygen as O	ASTM D 3176: 2015
146	CHEMICAL- SOLID FUELS	Coal/Coke	Volatile Matter as VM	ASTM D3175: 2017
147	CHEMICAL- SOLID FUELS	Coal/Coke	Volatile Matter as VM	ISO:562: 2010
148	CHEMICAL- SOLID FUELS	Coal/Coke	Volatile Matter as VM	IS:1350:Part-1: 2013
149	CHEMICAL- SOLID FUELS	Coal/Coke	Washability (Sink & Float) test	ISO:7936: 1992



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name: SGS INDIA PRIVATE LIMITED, H.O.S-3/21, SECTOR-A, ZONE-B, MANCHESWAR IND. ESTATE, BHUBANESWAR, KHORDA, ODISHA, INDIA

Accreditation Standard: ISO/IEC 17025:2017

Certificate Number: TC-5867 Page No. : 12 / 12

Validity: 01/04/2019 to 31/03/2021 Last Amended on: 12/04/2019

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed
150	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis : Potassium Oxide as K ₂ O	ASTM D4326: 2013
151	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis : Strontium Oxide as SrO	ASTM D4326: 2013
152	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash analysis: Alumina as Al ₂ O ₃	ASTM D4326: 2013
153	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Barium Oxide as BaO	ASTM D4326: 2013
154	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Calcium oxide as CaO	ASTM D4326: 2013
155	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Ferric Oxide as Fe ₂ O ₃	ASTM D4326: 2013
156	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Magnesium as MgO	ASTM D4326: 2013
157	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Manganese Oxide as MnO ₂	ASTM D4326: 2013
158	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Silica as SiO ₂	ASTM D4326: 2013
159	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Sodium Oxide as Na ₂ O	ASTM D4326: 2013
160	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Sulphur Trioxide as SO ₃	ASTM D4326: 2013
161	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Titanium as TiO ₂	ASTM D4326: 2013
162	CHEMICAL- SOLID FUELS	Coal/Coke/Fly Ash	Ash Analysis: Phosphorous Pentoxide as P ₂ O ₅	ASTM D4326: 2013
163	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample	ISO:687: 2010