National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : LEON INSPECTION & TESTING INDIA PRIVATE LIMITED, PLOT NO-178, SECTOR-A, ZONE-B, MANCHESWAR INDUSTRIAL ESTATE, BHUBANESWAR, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8551 **Page No** 1 of 2

Validity 28/06/2021 to 27/06/2023 **Last Amended on** 29/06/2021

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- SOLID FUELS	Coal	Ash	ASTM D3174
2	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part-1)
3	CHEMICAL- SOLID FUELS	Coal	Ash	ISO 1171
4	CHEMICAL- SOLID FUELS	Coal	Crucible swelling index	ASTM D720
5	CHEMICAL- SOLID FUELS	Coal	Crucible swelling index	IS 1353 (part 1)
6	CHEMICAL- SOLID FUELS	Coal	Crucible swelling index	ISO 501
7	CHEMICAL- SOLID FUELS	Coal	Equilibrated moisture	IS 1350 Part 1
8	CHEMICAL- SOLID FUELS	Coal	Fixed carbon	ASTM D3172
9	CHEMICAL- SOLID FUELS	Coal	Fixed carbon	IS 1350 (Part-1)
10	CHEMICAL- SOLID FUELS	Coal	Fixed carbon	ISO 17246
11	CHEMICAL- SOLID FUELS	Coal	Gross calorific value (GCV)	ASTM D5865
12	CHEMICAL- SOLID FUELS	Coal	Gross calorific value (GCV)	IS 1350 (Part-2)
13	CHEMICAL- SOLID FUELS	Coal	Gross calorific value (GCV)	ISO 1928
14	CHEMICAL- SOLID FUELS	Coal	Hard grove grindability index (HGI)	ASTM D409M
15	CHEMICAL- SOLID FUELS	Coal	Hard grove grindability index (HGI)	IS 4433
16	CHEMICAL- SOLID FUELS	Coal	Hard grove grindability index (HGI)	ISO 5074
17	CHEMICAL- SOLID FUELS	Coal	LTGK	IS 1353 part 2
18	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample (MAS)	ASTM D3173M-17a
19	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample (MAS)	IS 1350 (part 1)
20	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample (MAS)	ISO 11722
21	CHEMICAL- SOLID FUELS	Coal	Phosphorus (P)	IS 1350 (Part 5)
22	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	ASTM D4239-18e1
23	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	IS 1350 (Part 3)
24	CHEMICAL- SOLID FUELS	Coal	Sulphur (S)	ISO 19579
25	CHEMICAL- SOLID FUELS	Coal	Total moisture (TM)	ASTM D2961
26	CHEMICAL- SOLID FUELS	Coal	Total moisture (TM)	ASTM D3302

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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
27	CHEMICAL- SOLID FUELS	Coal	Total moisture (TM)	IS 1350 (Part 1)
28	CHEMICAL- SOLID FUELS	Coal	Total moisture (TM)	ISO 589
29	CHEMICAL- SOLID FUELS	Coal	Volatile matter (VM)	ASTM D3175
30	CHEMICAL- SOLID FUELS	Coal	Volatile matter (VM)	IS 1350 (Part-1)
31	CHEMICAL- SOLID FUELS	Coal	Volatile matter (VM)	ISO 562
32	CHEMICAL- SOLID FUELS	Coke	Ash	ASTM D3174
33	CHEMICAL- SOLID FUELS	Coke	Ash	IS 1350 (Part 1)
34	CHEMICAL- SOLID FUELS	Coke	Ash	ISO 1171
35	CHEMICAL- SOLID FUELS	Coke	Fixed carbon (FC)	ASTM D3172
36	CHEMICAL- SOLID FUELS	Coke	Fixed carbon (FC)	IS 1350 (Part 1)
37	CHEMICAL- SOLID FUELS	Coke	Fixed carbon (FC)	ISO 17246
38	CHEMICAL- SOLID FUELS	Coke	Gross calorific value (GCV)	ASTM D5865
39	CHEMICAL- SOLID FUELS	Coke	Gross calorific value (GCV)	IS 1350 (part 2)
40	CHEMICAL- SOLID FUELS	Coke	Gross calorific value (GCV)	ISO 1928
41	CHEMICAL- SOLID FUELS	Coke	Hard grove grindability index (HGI)	ASTM D5003-6a
42	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample (MAS)	ASTM D3173/D3173M-17a
43	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample (MAS)	IS 1350 (Part 1)
44	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample (MAS)	ISO 687
45	CHEMICAL- SOLID FUELS	Coke	Phosphorus (P)	IS 1350 (Part 5) clause 5.2
46	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	ASTM D4239-18e1
47	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	IS 1350 (Part 3)
48	CHEMICAL- SOLID FUELS	Coke	Sulphur (S)	ISO 19579
49	CHEMICAL- SOLID FUELS	Coke	Total moisture (TM)	IS 1350 (Part 1)
50	CHEMICAL- SOLID FUELS	Coke	Total moisture (TM)	ISO 579
51	CHEMICAL- SOLID FUELS	Coke	Volatile matter (VM)	ASTM D3175
52	CHEMICAL- SOLID FUELS	Coke	Volatile matter (VM)	IS 1350 (Part 1)
53	CHEMICAL- SOLID FUELS	Coke	Volatile matter (VM)	ISO 562