



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TCRC QUALITY CONTROLS LLP, ROOM NO. 5/878, WARD NO. 5,
RAIGARH, CHHATTISGARH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-12402 **Page No** 1 of 8

Validity 12/10/2025 to 11/10/2029 **Last Amended on** 08/11/2025

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 Testing				
1	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Alumina (Al ₂ O ₃)	IS 1727
2	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Calcium Oxide (CaO)	IS 1727
3	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Chloride	IS 4032 (Amd. 2)
4	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Ferric Oxide (Fe ₂ O ₃)	IS 1727
5	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Loss on Ignition (LOI)	IS 1727
6	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Magnesium Oxide (MgO)	IS 1727
7	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Phosphorus Penta Oxide (P ₂ O ₅)	IS 1355
8	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Potassium Oxide (K ₂ O)	IS 4032
9	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Silica (SiO ₂)	IS 1727
10	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Sodium Oxide (Na ₂ O)	IS 4032
11	CHEMICAL- BUILDING MATERIAL	Fly Ash / Bottom Ash	Sulphur Tri Oxide (SO ₃)	IS 1727
12	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Manganese	IS 1559 (By The Volhard Method)
13	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Phosphorus	IS 1559
14	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Silicon	IS 1559
15	CHEMICAL- METALS & ALLOYS	Silico Manganese	Manganese	IS 1559 (By The Volhard Method)
16	CHEMICAL- METALS & ALLOYS	Silico Manganese	Phosphorus	IS 1559
17	CHEMICAL- METALS & ALLOYS	Silico Manganese	Silicon	IS 1559
18	CHEMICAL- ORES & MINERALS	Bauxite Ore	Alumina	IS 2000 (Part 3)
19	CHEMICAL- ORES & MINERALS	Bauxite Ore	Ferric Oxide (Fe ₂ O ₃)	IS 2000 (Part 4)



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20	CHEMICAL- ORES & MINERALS	Bauxite Ore	Loss on Ignition	IS 2000 (Part 1)
21	CHEMICAL- ORES & MINERALS	Bauxite Ore	Moisture	SOP/RIG/Moisture-Bauxite/01, Issue No. 01, Issue Date:10.07.2021
22	CHEMICAL- ORES & MINERALS	Bauxite Ore	Silica	IS 2000 (Part 2)
23	CHEMICAL- ORES & MINERALS	Calcined Dolomite	4 N HCl Reactivity	SOP/RIG/HCl Reactivity/Lime & Dolomite, Issue No. 01, Issue Date:24.09.2024
24	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Alumina (as Al ₂ O ₃)	IS 1760 (Part 3)
25	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Calcium Oxide (CaO)	IS 1760 (Part 3)
26	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Ferric Oxide (as Fe ₂ O ₃)	IS 1760 (Part 3)
27	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Loss On Ignition	IS 1760 (Part 1)
28	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Mangesium Oxide (MgO)	IS 1760 (Part 3)
29	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Silica (as SiO ₂)	IS 1760 (Part 2)
30	CHEMICAL- ORES & MINERALS	Calcined Dolomite	Sulphur (as S)	IS 1540 (Part 1)
31	CHEMICAL- ORES & MINERALS	Gypsum	Calcium Oxide	IS 1288 (EDTA Method)
32	CHEMICAL- ORES & MINERALS	Gypsum	Calcium Sulphate (CaSO ₄ .2H ₂ O)	ASTM C471M
33	CHEMICAL- ORES & MINERALS	Gypsum	Calcium Sulphate (CaSO ₄ .2H ₂ O)	IS 1288
34	CHEMICAL- ORES & MINERALS	Gypsum	Combined Water	IS 1288
35	CHEMICAL- ORES & MINERALS	Gypsum	Free Water	IS 1288
36	CHEMICAL- ORES & MINERALS	Gypsum	Iron & Aluminium Oxide	IS 1288
37	CHEMICAL- ORES & MINERALS	Gypsum	Magnesium Oxide	IS 1288
38	CHEMICAL- ORES & MINERALS	Gypsum	pH	SOP/RIG/pH-Gypsum/01, Issue No. 1, Issue Date:10.04.2023



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39	CHEMICAL- ORES & MINERALS	Gypsum	Silica & Acid Insolubles	IS 1288
40	CHEMICAL- ORES & MINERALS	Gypsum	Sodium Chloride (NaCl)	IS 1288
41	CHEMICAL- ORES & MINERALS	Gypsum	Sulphur Tri Oxide (SO ₃)	IS 1288
42	CHEMICAL- ORES & MINERALS	High Silica Sand	Clay Content	IS 1918
43	CHEMICAL- ORES & MINERALS	High Silica Sand	Moisture	IS 1918
44	CHEMICAL- ORES & MINERALS	Iron Ore	Alumina (Al ₂ O ₃)	IS 1493 (Part 1)
45	CHEMICAL- ORES & MINERALS	Iron Ore	Iron	IS 1493 (Part 1)
46	CHEMICAL- ORES & MINERALS	Iron Ore	Loss on Ignition	ISO 11536
47	CHEMICAL- ORES & MINERALS	Iron Ore	Moisture	IS 1493 (Part 1)
48	CHEMICAL- ORES & MINERALS	Iron Ore	Phosphorus	IS 1493 (Part 1)
49	CHEMICAL- ORES & MINERALS	Iron Ore	Silica	IS 1493 (Part 1)
50	CHEMICAL- ORES & MINERALS	Iron Ore	Sulphur	IS 1493 (Part 1)
51	CHEMICAL- ORES & MINERALS	Limestone/Dolomite	Alumina	IS 1760 (Part 3)
52	CHEMICAL- ORES & MINERALS	Limestone/Dolomite	Calcium Oxide (CaO)	IS 1760 (Part 3)
53	CHEMICAL- ORES & MINERALS	Limestone/Dolomite	Ferric Oxide (Fe ₂ O ₃)	IS 1760 (Part 3)
54	CHEMICAL- ORES & MINERALS	Limestone/Dolomite	Loss on Ignition	IS 1760 (Part 1)
55	CHEMICAL- ORES & MINERALS	Limestone/Dolomite	Magnesium Oxide (MgO)	IS 1760 (Part 3)
56	CHEMICAL- ORES & MINERALS	Limestone/Dolomite	Silica	IS 1760 (Part 2)
57	CHEMICAL- ORES & MINERALS	Manganese Ore	Alumina	IS 1473
58	CHEMICAL- ORES & MINERALS	Manganese Ore	Iron	IS 1473



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59	CHEMICAL- ORES & MINERALS	Manganese Ore	Manganese	IS 1473
60	CHEMICAL- ORES & MINERALS	Manganese Ore	Moisture	IS 1473
61	CHEMICAL- ORES & MINERALS	Manganese Ore	Phosphorous	IS 1473
62	CHEMICAL- ORES & MINERALS	Manganese Ore	Silica	IS 1473
63	CHEMICAL- ORES & MINERALS	Quartzite & High Silica Sand	Loss on Ignition	IS 1917 (Part 1)
64	CHEMICAL- ORES & MINERALS	Quartzite & High Silica Sand	Potassium Oxide (K ₂ O)	IS 1917 (Part 2)
65	CHEMICAL- ORES & MINERALS	Quartzite & High Silica Sand	Silica	IS 1917 (Part 3)
66	CHEMICAL- ORES & MINERALS	Quartzite & High Silica Sand	Sodium Oxide (Na ₂ O)	IS 1917 (Part 2)
67	CHEMICAL- ORES & MINERALS	Quick Lime	4 N HCl Reactivity	SOP/RIG/HClReactivity/Lime & Dolomite, Issue No.01 Issue Date: 24.09.2024
68	CHEMICAL- ORES & MINERALS	Quick Lime	Alumina (as Al ₂ O ₃)	IS 1514
69	CHEMICAL- ORES & MINERALS	Quick Lime	Available Lime (as CaO)	IS 1514
70	CHEMICAL- ORES & MINERALS	Quick Lime	Ferric Oxide (as Fe ₂ O ₃)	IS 1514
71	CHEMICAL- ORES & MINERALS	Quick Lime	Loss on Ignition	IS 1514
72	CHEMICAL- ORES & MINERALS	Quick Lime	Magnesium Oxide (as MgO)	IS 1514
73	CHEMICAL- ORES & MINERALS	Quick Lime	Silica (as SiO ₂)	IS 1514
74	CHEMICAL- ORES & MINERALS	Quick Lime	Sulphur	IS 1540 (Part 1)
75	CHEMICAL- ORES & MINERALS	Quick Lime	Total Lime (as CaO)	IS 1514
76	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Alumina (as Al ₂ O ₃)	IS 1355
77	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Calcium Oxide (CaO)	IS 1355
78	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Chloride	IS 4032 (Amd. 2)
79	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Ferric Oxide (as Fe ₂ O ₃)	IS 1355
80	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Loss On Ignition	IS 1727

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81	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Magnesium Oxide (MgO)	IS 1355
82	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Manganese Oxide (MnO)	IS 1355
83	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Phosphorus Penta Oxide (P2O5)	IS 1355
84	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Potassium Oxide (K2O)	IS 1355
85	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Silica (as SiO2)	IS 1355
86	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Sodium Oxide (Na2O)	IS 1355
87	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Sulphur Tri Oxide (SO3)	IS 1355
88	CHEMICAL- SOLID FUELS	Ash Of Coal / Coke	Titania (as TiO2)	IS 1355
89	CHEMICAL- SOLID FUELS	Coal	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D3174
90	CHEMICAL- SOLID FUELS	Coal	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 1)
91	CHEMICAL- SOLID FUELS	Coal	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 1171
92	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture (40°C & 60% RH)	IS 1350 (Part 1)
93	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D3172
94	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 1)
95	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 17246
96	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D5865
97	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 2)
98	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 1928
99	CHEMICAL- SOLID FUELS	Coal	Moisture (Air Dried Basis)	ASTM D3173
100	CHEMICAL- SOLID FUELS	Coal	Moisture (Air Dried Basis)	IS 1350 (Part 1)
101	CHEMICAL- SOLID FUELS	Coal	Moisture (Air Dried Basis)	ISO 11722
102	CHEMICAL- SOLID FUELS	Coal	Total Moisture (As Received Basis)	ASTM D2961

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103	CHEMICAL- SOLID FUELS	Coal	Total Moisture (As Received Basis)	ASTM D3302
104	CHEMICAL- SOLID FUELS	Coal	Total Moisture (As Received Basis)	IS 1350 (Part 1)
105	CHEMICAL- SOLID FUELS	Coal	Total Moisture (As Received Basis)	ISO 589 (Method B-Single stage Method)
106	CHEMICAL- SOLID FUELS	Coal	Total Sulphur (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 3)
107	CHEMICAL- SOLID FUELS	Coal	Total Sulphur (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 334
108	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D3175
109	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 1)
110	CHEMICAL- SOLID FUELS	Coal	Volatile Matter(Air Dried Basis/As Received Basis/ Dry Basis)	ISO 562
111	CHEMICAL- SOLID FUELS	Coke	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D3174
112	CHEMICAL- SOLID FUELS	Coke	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 1)
113	CHEMICAL- SOLID FUELS	Coke	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 1171
114	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D3172
115	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 1)
116	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 17246
117	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D5865
118	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 2)



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119	CHEMICAL- SOLID FUELS	Coke	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 1928
120	CHEMICAL- SOLID FUELS	Coke	Moisture (Air Dried Basis)	ASTM D3173
121	CHEMICAL- SOLID FUELS	Coke	Moisture (Air Dried Basis)	ISO 11722
122	CHEMICAL- SOLID FUELS	Coke	Moisture (Air Dried Basis)	IS 1350 (Part 1)
123	CHEMICAL- SOLID FUELS	Coke	Total Moisture (As Received Basis)	ASTM D2961
124	CHEMICAL- SOLID FUELS	Coke	Total Moisture (As Received Basis)	ASTM D3302
125	CHEMICAL- SOLID FUELS	Coke	Total Moisture (As Received Basis)	IS 1350 (Part 1)
126	CHEMICAL- SOLID FUELS	Coke	Total Moisture (As Received Basis)	ISO 579
127	CHEMICAL- SOLID FUELS	Coke	Total Moisture (As Received Basis)	ISO 589 (Method B-Single stage Method)
128	CHEMICAL- SOLID FUELS	Coke	Total Sulphur (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 3)
129	CHEMICAL- SOLID FUELS	Coke	Total Sulphur (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 334
130	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1350 (Part 1)
131	CHEMICAL- SOLID FUELS	Coke	Volatile Matter (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D3175
132	CHEMICAL- SOLID FUELS	Coke	Volatile Matter(Air Dried Basis/As Received Basis/ Dry Basis)	ISO 562
133	CHEMICAL- SOLID FUELS	Petroleum Coke	Ash (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1448 (Part 126)
134	CHEMICAL- SOLID FUELS	Petroleum Coke	Fixed Carbon (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 17246
135	CHEMICAL- SOLID FUELS	Petroleum Coke	Gross Calorific Value (Air Dried Basis/As Received Basis/ Dry Basis)	ASTM D5865/5865M
136	CHEMICAL- SOLID FUELS	Petroleum Coke	Moisture (Air Dried Basis)	IS 1448 (Part 132)
137	CHEMICAL- SOLID FUELS	Petroleum Coke	Total Moisture (As Received Basis)	ASTM D4931

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138	CHEMICAL- SOLID FUELS	Petroleum Coke	Total Sulphur (Air Dried Basis/As Received Basis/ Dry Basis)	ISO 334
139	CHEMICAL- SOLID FUELS	Petroleum Coke	Volatile Matter (Air Dried Basis/As Received Basis/ Dry Basis)	IS 1448 (Part 134)