SCOPE OF ACCREDITATION

Laboratory Name : THERAPEUTICS CHEMICAL RESEARCH CORPORATION, PLOT NO-155 & 6/E/1, MANCHESWAR INDUSTRIAL ESTATE, SEC-A, ZONE-B, BHUBANESWAR, KHORDHA, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 28/02/2022 to 27/02/2024 **Last Amended on** 10/07/2022

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- METALS & ALLOYS	Ferro Chromium	Chromium	IS 13452(PART-5)
2	CHEMICAL- METALS & ALLOYS	Ferro Chromium	Silicon as Si	IS 13452(PART 1)
3	CHEMICAL- ORES & MINERALS	Chrome ore	phosphorous as P	IS 5305
4	CHEMICAL- ORES & MINERALS	Chromium ore	Alumina as (Al2O3)	IS 4737
5	CHEMICAL- ORES & MINERALS	Chromium ore	Chromium Oxide as Cr2O3	IS 4737
6	CHEMICAL- ORES & MINERALS	Chromium ore	Cr/Fe(ratio)	IS 4737
7	CHEMICAL- ORES & MINERALS	Chromium ore	Lime as Cao	IS 4737
8	CHEMICAL- ORES & MINERALS	Chromium ore	Magnesia as MgO	IS 4737
9	CHEMICAL- ORES & MINERALS	Chromium Ore	Moisture as M	IS 8562
10	CHEMICAL- ORES & MINERALS	Chromium ore	Sampling	IS 8562
11	CHEMICAL- ORES & MINERALS	Chromium ore	Silica as SiO2	IS 4737
12	CHEMICAL- ORES & MINERALS	Chromium ore	Total Iron as (Fe2O3)	IS 4737
13	CHEMICAL- ORES & MINERALS	Chromium ore	Total Iron as FeO	IS 4737
14	CHEMICAL- ORES & MINERALS	Dolomite	Alumina as Al2O3	IS 1760(PART-3)
15	CHEMICAL- ORES & MINERALS	Dolomite	Calcium oxide as CaO	IS 1760(PART-3)
16	CHEMICAL- ORES & MINERALS	Dolomite	Iron Oxide as Fe2O3	IS 1760(PART-3)
17	CHEMICAL- ORES & MINERALS	Dolomite	Loss On Ignition	IS 1760(PART-1)
18	CHEMICAL- ORES & MINERALS	Dolomite	Magnesium Oxide as MgO	IS 1760 (PART-3)

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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
19	CHEMICAL- ORES & MINERALS	Dolomite	Potassium Oxide as K2O	IS 9497
20	CHEMICAL- ORES & MINERALS	Dolomite	Sampling	IS 2109
21	CHEMICAL- ORES & MINERALS	Dolomite	Silica as SiO2	IS 1760(PART-2)
22	CHEMICAL- ORES & MINERALS	Dolomite	Sodium Oxide as Na2O	IS 9497
23	CHEMICAL- ORES & MINERALS	Iron ores	Aluminium as Al2O3	IS 1493 (Part I)
24	CHEMICAL- ORES & MINERALS	Iron ores	Moisture as M	IS 1493(Part I)
25	CHEMICAL- ORES & MINERALS	Iron ores	Phosphorous as P	IS 1493 (Part I)
26	CHEMICAL- ORES & MINERALS	Iron ores	Sampling	IS 1405
27	CHEMICAL- ORES & MINERALS	iron ores	Silica as SiO2	IS 1493 (Part I)
28	CHEMICAL- ORES & MINERALS	Iron ores	Sulphur as S	IS 1493 (Part I)
29	CHEMICAL- ORES & MINERALS	Iron ores	Total Iron as Fe	IS 1493 (Part I)
30	CHEMICAL- ORES & MINERALS	Iron ores	Transportable Moisture limit as TML	IMSBC CODE APPENDIX 2 (2020 EDITION) (FLOW TABLE TEST)
31	CHEMICAL- ORES & MINERALS	Iron ores	Transportable Moisture limit as TML	IMSBC CODE APPENDIX 2, 2020 Edition
32	CHEMICAL- ORES & MINERALS	Limestone	Alumina as Al2O3	IS 1760(PART-3)
33	CHEMICAL- ORES & MINERALS	Limestone	Calcium Oxide as CaO	IS 1760 (PART-3)
34	CHEMICAL- ORES & MINERALS	Limestone	Iron oxide as Fe2O3	IS 1760 (PART-3)
35	CHEMICAL- ORES & MINERALS	Limestone	Loss On Ignition as LOI	IS 1760(PART-1)
36	CHEMICAL- ORES & MINERALS	Limestone	Magnesium Oxide as MgO	IS 1760 (PART-3)

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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
37	CHEMICAL- ORES & MINERALS	Limestone	Moisture as M	IS 997
38	CHEMICAL- ORES & MINERALS	Limestone	Potassium oxide as K2O	IS 9497
39	CHEMICAL- ORES & MINERALS	Limestone	Sampling	IS 2109
40	CHEMICAL- ORES & MINERALS	Limestone	Silica as SiO2	IS1760 (PART-2)
41	CHEMICAL- ORES & MINERALS	Limestone	Sodium Oxide as Na2O	IS 9497
42	CHEMICAL- ORES & MINERALS	Manganese ores	Aluminium as Al2O3	IS 1473
43	CHEMICAL- ORES & MINERALS	Manganese ores	Moisture as M	IS0 4299
44	CHEMICAL- ORES & MINERALS	Manganese ores	Phosphorous as P	IS 1473
45	CHEMICAL- ORES & MINERALS	Manganese ores	Sampling	IS 1449
46	CHEMICAL- ORES & MINERALS	Manganese ores	Silica as SiO2	IS 1473
47	CHEMICAL- ORES & MINERALS	Manganese ores	Sulphur as S	IS 1473
48	CHEMICAL- ORES & MINERALS	Manganese ores	Total Manganese as Mn	IS 1473
49	CHEMICAL- ORES & MINERALS	Manganese ores	Total Manganese as Mn	ISO 4298
50	CHEMICAL- ORES & MINERALS	Manganese ores	Total Iron as Fe	IS 1473
51	CHEMICAL- ORES & MINERALS	Quartzite	Loss On Ignition	IS 1917 (PART-1)
52	CHEMICAL- ORES & MINERALS	Quartzite	Potassium Oxide as K2O	IS 1917 (PART-2)
53	CHEMICAL- ORES & MINERALS	Quartzite	silica as SiO2	IS 1917 (PART-3)
54	CHEMICAL- ORES & MINERALS	Quartzite	Sodium Oxide as Na2O	IS 1917 (PART-2)
55	CHEMICAL- SOLID FUELS	Coal	ASH	1350(PART-1)

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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
56	CHEMICAL- SOLID FUELS	Coal	ASH(Air dried/As determine/Dried basis)	ASTM D 3174
57	CHEMICAL- SOLID FUELS	Coal	ASH(Air dried/As determine/Dried basis)	ISO 1171
58	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number/Free swelling Index	ASTM D 720
59	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number/Free Swelling Index	IS 1353(PART-1)
60	CHEMICAL- SOLID FUELS	Coal	Crucible Swelling Number/Free swelling Index	ISO 501
61	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture	ASTM D 1412/D1412M
62	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture	IS 1350(PART-1)
63	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon (Air dried/As determine/Dried basis)	ISO 17246
64	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon as FC	IS 1350(part-1)
65	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon(Air Dried/As determine/Dried basis)	ASTM D 3172
66	CHEMICAL- SOLID FUELS	coal	Gross Calorific value as GCV(Air Dried/As determine/Dried basis)	ASTM D 5865
67	CHEMICAL- SOLID FUELS	Coal	Gross Calorific value as GCV(Air Dried/As determine/Dried basis)	IS 1350(PART-2)
68	CHEMICAL- SOLID FUELS	Coal	Gross Calorific value as GCV(Air Dried/As determine/Dried basis)	ISO 1928
69	CHEMICAL- SOLID FUELS	coal	Moisture as M	IS 1350 (PART-1)
70	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample(M)	ISO 11722
71	CHEMICAL- SOLID FUELS	Coal	Moisture in analysis sample(M)	ASTM D 3173
72	CHEMICAL- SOLID FUELS	coal	Sampling	IS 436 Part 1
73	CHEMICAL- SOLID FUELS	Coal	Sulphur as S	IS 1350(PART-3)
74	CHEMICAL- SOLID FUELS	Coal	Total Moisture as TM	ASTM D 3302, D2961
75	CHEMICAL- SOLID FUELS	coal	Total Moisture as TM	IS 1350(PART-1)
76	CHEMICAL- SOLID FUELS	Coal	Total Moisture as TM	ISO 589,
77	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ISO 334

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78	CHEMICAL- SOLID FUELS	Coal	Transportable Moisture limit as TML	IMSBC CODE APPENDIX 2
79	CHEMICAL- SOLID FUELS	Coal	Transportable Moisture limit as TML	IMSBC CODE APPENDIX 2 (2020 EDITION) (FLOW TABLE TEST)
80	CHEMICAL- SOLID FUELS	Coal	Volatile matter as VM	1350
81	CHEMICAL- SOLID FUELS	Coal	Volatile matter(Air dried/As determine/Dried basis)	ASTM D 3175
82	CHEMICAL- SOLID FUELS	Coal	Volatile matter(Air dried/As determine/Dried basis)	ISO 562
83	CHEMICAL- SOLID FUELS	Coke	ASH	IS 1350(PART-1)
84	CHEMICAL- SOLID FUELS	Coke	ASH(Air dried/As determine/Dried basis)	ASTM D 3174
85	CHEMICAL- SOLID FUELS	Coke	ASH(Air dried/As determine/Dried basis)	ISO 1171
86	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index(CRI)	ASTM D5341
87	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index(CRI)	IS 4023
88	CHEMICAL- SOLID FUELS	Coke	Coke Reactivity Index(CRI)	ISO 18894
89	CHEMICAL- SOLID FUELS	Coke	Coke strength After Reaction (CSR)	ASTM D5341
90	CHEMICAL- SOLID FUELS	Coke	Coke strength After Reaction (CSR)	IS 4023
91	CHEMICAL- SOLID FUELS	Coke	Coke strength After Reaction (CSR)	ISO 18894
92	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon (Air dried/As determine/Dried basis)	ISO 17246
93	CHEMICAL- SOLID FUELS	coke	Fixed Carbon as FC	IS 1350(PART-1)
94	CHEMICAL- SOLID FUELS	Coke	Fixed Carbon(Air Dried/As determine/Dried basis)	ASTM D 3172
95	CHEMICAL- SOLID FUELS	Coke	Gross Calorific value as GCV(Air Dried/As determine/Dried basis)	ASTM D 5865
96	CHEMICAL- SOLID FUELS	Coke	Gross Calorific value as GCV(Air Dried/As determine/Dried basis)	ISO 1928
97	CHEMICAL- SOLID FUELS	Coke	Gross Calorific value as GCV(Air Dried/As determine/Dried basis)	IS 1350(PART-2)

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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
98	CHEMICAL- SOLID FUELS	Coke	Moisture as M	IS 1350(PART-1)
99	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample(M)	ASTM D 3173
100	CHEMICAL- SOLID FUELS	Coke	Moisture in analysis sample(M)	ISO 11722
101	CHEMICAL- SOLID FUELS	Coke	Sampling	IS 436 (PART 1)
102	CHEMICAL- SOLID FUELS	Coke	Sulphur as S	IS 1350(PART-3)
103	CHEMICAL- SOLID FUELS	Coke	Total Moisture as TM	ASTM D 3302, D2961
104	CHEMICAL- SOLID FUELS	Coke	Total Moisture as TM	ASTM D 3302, D2961
105	CHEMICAL- SOLID FUELS	Coke	Total Moisture as TM	IS 1350(PART-1)
106	CHEMICAL- SOLID FUELS	Coke	Total Moisture as TM	ISO 579
107	CHEMICAL- SOLID FUELS	Coke	Total Moisture as TM	ISO 589
108	CHEMICAL- SOLID FUELS	Coke	Total Sulphur	ISO 334,
109	CHEMICAL- SOLID FUELS	Coke	Volatile Matter as VM	IS 1350(PART-1)
110	CHEMICAL- SOLID FUELS	Coke	Volatile matter(Air dried/As determine/Dried basis)	ASTM D 3175
111	CHEMICAL- SOLID FUELS	Coke	Volatile matter(Air dried/As determine/Dried basis)	ISO 562