National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ANALYTICAL & APPLIED CHEMISTRY DIVISION, CSIR-NATIONAL METALLURGICAL LABORATORY, P.O. BURMAMINES, JAMSHEDPUR, EAST SINGHBUM, JHARKHAND, 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- BUILDING MATERIAL	Blast Furnace Slag	Al2O3	NML/AAC/BF Slag/ICP-OES/14
2	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	CaO	NML/AAC/BF Slag/ICP-OES/14
3	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	Fe(T)	NML/AAC/BF Slag/ICP-OES/14
4	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	MgO	NML/AAC/BF Slag/ICP-OES/14
5	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	P	NML/AAC/BF Slag/ICP-OES/14
6	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	S	NML/AAC/Iron Ore/CS Analyzer 01
7	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	SiO2	NML/AAC/BF Slag/ICP-OES/14
8	CHEMICAL- BUILDING MATERIAL	Blast Furnace Slag	TiO2	NML/AAC/BF Slag/ICP-OES/14
9	CHEMICAL- METALS & ALLOYS	Brass	Cu	NML/AAC/Brass/ICP-OES/11
10	CHEMICAL- METALS & ALLOYS	Brass	Fe	NML/AAC/Brass/ICP-OES/11
11	CHEMICAL- METALS & ALLOYS	Brass	Ni	NML/AAC/Brass/ICP-OES/11
12	CHEMICAL- METALS & ALLOYS	Brass	P	NML/AAC/Brass/ICP-OES/11
13	CHEMICAL- METALS & ALLOYS	Brass	Pb	NML/AAC/Brass/ICP-OES/11
14	CHEMICAL- METALS & ALLOYS	Brass	Sn	NML/AAC/Brass/ICP-OES/11
15	CHEMICAL- METALS & ALLOYS	Brass	Zn	NML/AAC/Brass/ICP-OES/11
16	CHEMICAL- METALS & ALLOYS	Cast Iron	C	IS 12308-Part 1
17	CHEMICAL- METALS & ALLOYS	Cast Iron	Cr	NML/AAC/Cast Iron/ICP-OES/13
18	CHEMICAL- METALS & ALLOYS	Cast Iron	Cu	NML/AAC/Cast Iron/ICP-OES/13

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19	CHEMICAL- METALS & ALLOYS	Cast Iron	Mg	NML/AAC/Cast Iron/ICP-OES/13
20	CHEMICAL- METALS & ALLOYS	Cast Iron	Mn	NML/AAC/Cast Iron/ICP-OES/13
21	CHEMICAL- METALS & ALLOYS	Cast Iron	Ni	NML/AAC/Cast Iron/ICP-OES/13
22	CHEMICAL- METALS & ALLOYS	Cast Iron	P	NML/AAC/Cast Iron/ICP-OES/13
23	CHEMICAL- METALS & ALLOYS	Cast Iron	S	NML/AAC/Cast Iron/CS Analyzer/13
24	CHEMICAL- METALS & ALLOYS	Cast Iron	Si	NML/AAC/Cast Iron/ICP-OES/13
25	CHEMICAL- METALS & ALLOYS	Ferro Chromium	C	NML/AAC/Fe-Cr/CS Analyser/05
26	CHEMICAL- METALS & ALLOYS	Ferro Chromium	Cr	NML/AAC/Ferro Chromium/ICP-OES/05
27	CHEMICAL- METALS & ALLOYS	Ferro Chromium	Mn	NML/AAC/Ferro Chromium/ICP-OES/05
28	CHEMICAL- METALS & ALLOYS	Ferro Chromium	P	NML/AAC/Ferro Chromium/ICP-OES/05
29	CHEMICAL- METALS & ALLOYS	Ferro Chromium	S	NML/AAC/Fe-Cr/CS Analyser/05
30	CHEMICAL- METALS & ALLOYS	Ferro Chromium	Si	NML/AAC/Ferro Chromium/ICP-OES/05
31	CHEMICAL- METALS & ALLOYS	Ferro Chromium	V	NML/AAC/Ferro Chromium/ICP-OES/05
32	CHEMICAL- METALS & ALLOYS	Ferro Manganese	C	NML/AAC/Fe-Mn/CS Analyser/09
33	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Mn	NML/AAC/Ferro Manganese/ICP-OES/09
34	CHEMICAL- METALS & ALLOYS	Ferro Manganese	P	NML/AAC/Ferro Manganese/ICP-OES/09
35	CHEMICAL- METALS & ALLOYS	Ferro Manganese	S	NML/AAC/Fe-Mn/CS Analyser/09
36	CHEMICAL- METALS & ALLOYS	Ferro Manganese	Si	NML/AAC/Ferro Manganese/ICP-OES/09
37	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	C	NML/AAC/Fe-Mo/CS Analyser/07

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38	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Mo	NML/AAC/Ferro Molybdenum/ICP-OES/07
39	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	P	NML/AAC/Ferro Molybdenum/ICP-OES/07
40	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	S	NML/AAC/Fe-Mo/CS Analyser/07
41	CHEMICAL- METALS & ALLOYS	Ferro Molybdenum	Si	NML/AAC/Ferro Molybdenum/ICP-OES/07
42	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Al	NML/AAC/Ferro Silicon/ICP-OES/10
43	CHEMICAL- METALS & ALLOYS	Ferro Silicon	C	NML/AAC/Fe-Si/CS Analyser/10
44	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Ca	NML/AAC/Ferro Silicon/ICP-OES/10
45	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Mn	NML/AAC/Ferro Silicon/ICP-OES/10
46	CHEMICAL- METALS & ALLOYS	Ferro Silicon	P	NML/AAC/Ferro Silicon/ICP-OES/10
47	CHEMICAL- METALS & ALLOYS	Ferro Silicon	S	NML/AAC/Fe-Si/CS Analyser/10
48	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Si	NML/AAC/Ferro Silicon/ICP-OES/10
49	CHEMICAL- METALS & ALLOYS	Ferro Silicon	Ti	NML/AAC/Ferro Silicon/ICP-OES/10
50	CHEMICAL- METALS & ALLOYS	Ferro Titanium	Al	NML/AAC/Ferro Titanium/ICP-OES/08
51	CHEMICAL- METALS & ALLOYS	Ferro Titanium	C	NML/AAC/Fe-Ti/CS Analyzer/08
52	CHEMICAL- METALS & ALLOYS	Ferro Titanium	Mn	NML/AAC/Ferro Titanium/ICP-OES/08
53	CHEMICAL- METALS & ALLOYS	Ferro Titanium	P	NML/AAC/Ferro Titanium/ICP-OES/08
54	CHEMICAL- METALS & ALLOYS	Ferro Titanium	S	NML/AAC/Fe-Ti/CS Analyzer/08
55	CHEMICAL- METALS & ALLOYS	Ferro Titanium	Si	NML/AAC/Ferro Titanium/ICP-OES/08
56	CHEMICAL- METALS & ALLOYS	Ferro Titanium	Ti	NML/AAC/Ferro Titanium/ICP-OES/08

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57	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Al	NML/AAC/Ferro Vanadium/ICP-OES/06
58	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	C	NML/AAC/Fe-V/CS Analyzer/06
59	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Mn	NML/AAC/Ferro Vanadium/ICP-OES/06
60	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	P	NML/AAC/Ferro Vanadium/ICP-OES/06
61	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	S	NML/AAC/Fe-V/CS Analyzer/06
62	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	Si	NML/AAC/Ferro Vanadium/ICP-OES/06
63	CHEMICAL- METALS & ALLOYS	Ferro Vanadium	V	NML/AAC/Ferro Vanadium/ICP-OES/06
64	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	C	IS 228 (Part 20)
65	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	H2	IS 228 (Part 22)
66	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	N2	IS 228 (Part 24)
67	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	O2	IS 228 (Part 18)
68	CHEMICAL- METALS & ALLOYS	Low Alloy Steel	S	IS 228 (Part 20)
69	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Al	IS 8811
70	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	B	IS 8811
71	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	C	IS 8811
72	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Co	IS 8811
73	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Cr	IS 8811
74	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Cu	IS 8811
75	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Mn	IS 8811

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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
76	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Mo	IS 8811
77	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Nb	IS 8811
78	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Ni	IS 8811
79	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	P	IS 8811
80	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	S	IS 8811
81	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Si	IS 8811
82	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Ti	IS 8811
83	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	V	IS 8811
84	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Disc Form)	Zr	IS 8811
85	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Al	NML/ANC/Steel/ICP-OES/3
86	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Co	NML/ANC/Steel/ICP-OES/3
87	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Cr	NML/ANC/Steel/ICP-OES/3
88	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Cu	NML/ANC/Steel/ICP-OES/3
89	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Mn	NML/ANC/Steel/ICP-OES/3
90	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Mo	NML/ANC/Steel/ICP-OES/3
91	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Nb	NML/ANC/Steel/ICP-OES/3
92	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Ni	NML/ANC/Steel/ICP-OES/3
93	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	P	NML/ANC/Steel/ICP-OES/3
94	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	Si	NML/ANC/Steel/ICP-OES/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
95	CHEMICAL- METALS & ALLOYS	Low Alloy Steel (Turning Form)	V	NML/ANC/Steel/ICP-OES/3
96	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	C	IS 228 (Part 20)
97	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	H2	IS 228 (Part 22)
98	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	N2	IS 228 (Part 24)
99	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	Oxygen	IS 228 (Part 18)
100	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel	S	IS 228 (Part 20)
101	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Al	IS 8811
102	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	B	IS 8811
103	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	C	IS 8811
104	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Co	IS 8811
105	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Cr	IS 8811
106	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Cu	IS 8811
107	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Mn	IS 8811
108	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Mo	IS 8811
109	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Nb	IS 8811
110	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Ni	IS 8811
111	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	P	IS 8811
112	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	S	IS 8811
113	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Si	IS 8811

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114	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Ti	IS 8811
115	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	V	IS 8811
116	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Disc Form)	Zr	IS 8811
117	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Al	NML/ANC/Steel/ICP-OES/3
118	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Cr	NML/ANC/Steel/ICP-OES/3
119	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Cu	NML/ANC/Steel/ICP-OES/3
120	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Mn	NML/ANC/Steel/ICP-OES/3
121	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Mo	NML/ANC/Steel/ICP-OES/3
122	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Ni	NML/ANC/Steel/ICP-OES/3
123	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	P	NML/ANC/Steel/ICP-OES/3
124	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	Si	NML/ANC/Steel/ICP-OES/3
125	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel (Turning Form)	V	NML/ANC/Steel/ICP-OES/3
126	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Fe	ASTM E1251-17a
127	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Mg	ASTM E1251-17a
128	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Mn	ASTM E1251-17a
129	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Ni	ASTM E1251-17a
130	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Pb	ASTM E1251-17a
131	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Si	ASTM E1251-17a
132	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Ti	ASTM E1251-17a

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133	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Disc Form)	Zn	ASTM E1251-17a
134	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Cu	NML/AAC/Si-Al Alloy/ICP-OES/12
135	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Fe	NML/AAC/Si-Al Alloy/ICP-OES/12
136	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Mg	NML/AAC/Si-Al Alloy/ICP-OES/12
137	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Mn	NML/AAC/Si-Al Alloy/ICP-OES/12
138	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Ni	NML/AAC/Si-Al Alloy/ICP-OES/12
139	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Pb	NML/AAC/Si-Al Alloy/ICP-OES/12
140	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Si	NML/AAC/Si-Al Alloy/ICP-OES/12
141	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Sn	NML/AAC/Si-Al Alloy/ICP-OES/12
142	CHEMICAL- METALS & ALLOYS	Si-Al Alloy (Turning Form)	Zn	NML/AAC/Si-Al Alloy/ICP-OES/12
143	CHEMICAL- METALS & ALLOYS	Si-Al Alloy(Disc Form)	Cu	ASTM E1251-17a
144	CHEMICAL- METALS & ALLOYS	Si-Al Alloy(Disc Form)	Sn	ASTM E1251-17a
145	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	C	IS 9879
146	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	Cr	IS 9879
147	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	Cu	IS 9879
148	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	Mn	IS 9879
149	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	Mo	IS 9879
150	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	Ni	IS 9879
151	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	P	IS 9879

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152	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	S	IS 9879
153	CHEMICAL- METALS & ALLOYS	Stainless Steel (Disc Form)	Si	IS 9879
154	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	Co	NML/ANC/Steel/ICP-OES/3
155	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	Cr	NML/ANC/Steel/ICP-OES/3
156	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	Cu	NML/ANC/Steel/ICP-OES/3
157	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	Mn	NML/ANC/Steel/ICP-OES/3
158	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	Ni	NML/ANC/Steel/ICP-OES/3
159	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	P	NML/ANC/Steel/ICP-OES/3
160	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	Si	NML/ANC/Steel/ICP-OES/3
161	CHEMICAL- METALS & ALLOYS	Stainless Steel (Turning Form)	V	NML/ANC/Steel/ICP-OES/3
162	CHEMICAL- ORES & MINERALS	Chrome Ore	Al2O3	NML/AAC/Chrome Ore/ICP-OES/16
163	CHEMICAL- ORES & MINERALS	Chrome Ore	CaO	NML/AAC/Chrome Ore/ICP-OES/16
164	CHEMICAL- ORES & MINERALS	Chrome Ore	Cr2O3	NML/AAC/Chrome Ore/ICP-OES/16
165	CHEMICAL- ORES & MINERALS	Chrome Ore	Fe2O3	NML/AAC/Chrome Ore/ICP-OES/16
166	CHEMICAL- ORES & MINERALS	Chrome Ore	MgO	NML/AAC/Chrome Ore/ICP-OES/16
167	CHEMICAL- ORES & MINERALS	Chrome Ore	SiO2	NML/AAC/Chrome Ore/ICP-OES/16
168	CHEMICAL- ORES & MINERALS	Iron Ore	Al2O3	NML/ANC/Iron Ore/ICP-OES 1
169	CHEMICAL- ORES & MINERALS	Iron Ore	CaO	NML/ANC/Iron Ore/ICP-OES 1
170	CHEMICAL- ORES & MINERALS	Iron Ore	Fe (Total)	NML/ANC/Iron ore/Fe-1

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171	CHEMICAL- ORES & MINERALS	Iron Ore	Fe (Total)	NML/ANC/Iron Ore/ICP-OES 1
172	CHEMICAL- ORES & MINERALS	Iron Ore	MgO	NML/ANC/Iron Ore/ICP-OES 1
173	CHEMICAL- ORES & MINERALS	Iron Ore	P	NML/ANC/Iron Ore/ICP-OES 1
174	CHEMICAL- ORES & MINERALS	Iron Ore	S	NML/ANC/Iron ore/CS Analyzer 01
175	CHEMICAL- ORES & MINERALS	Iron Ore	SiO2	IS 1493 (Part I)
176	CHEMICAL- ORES & MINERALS	Iron Ore	SiO2	NML/ANC/Iron Ore/ICP-OES 1
177	CHEMICAL- ORES & MINERALS	Iron Ore	TiO2	IS 1493, Part 3
178	CHEMICAL- ORES & MINERALS	Lime-Stone	CaO	IS 1760 (Part 3)
179	CHEMICAL- ORES & MINERALS	Lime-Stone	LOI	IS 1760 (Part 1)
180	CHEMICAL- ORES & MINERALS	Lime-Stone	MgO	IS 1760 (Part 3)
181	CHEMICAL- ORES & MINERALS	Lime-Stone	SiO2	IS 1760 (Part 2)
182	CHEMICAL- ORES & MINERALS	Limestone	Al2O3	IS 1760 Part 3
183	CHEMICAL- ORES & MINERALS	Limestone	Fe2O3	IS 1760 Part 3
184	CHEMICAL- ORES & MINERALS	Limestone	S	ASTM C25-19
185	CHEMICAL- ORES & MINERALS	Manganese ore	Al2O3	NML/AAC/Manganese Ore/ICP-OES/15
186	CHEMICAL- ORES & MINERALS	Manganese ore	Fe	NML/AAC/Manganese Ore/ICP-OES/15
187	CHEMICAL- ORES & MINERALS	Manganese ore	Mn	NML/AAC/Manganese Ore/ICP-OES/15
188	CHEMICAL- ORES & MINERALS	Manganese ore	P	NML/AAC/Manganese Ore/ICP-OES/15
189	CHEMICAL- ORES & MINERALS	Manganese ore	S	NML/AAC/Manganese Ore/CS Analyzer/15

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190	CHEMICAL- ORES & MINERALS	Manganese ore	SiO2	NML/AAC/Manganese Ore/ICP-OES/15
191	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Al2O3	NML/AAC/Soil&Sediments/XRF: version 1.0
192	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	As	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
193	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ba	NML/AAC/Soil&Sediments/XRF: version 1.0
194	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Be	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
195	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	CaO	NML/AAC/Soil&Sediments/XRF: version 1.0
196	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ce	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
197	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Co	NML/AAC/Soil&Sediments/XRF: version 1.0
198	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Cr	NML/AAC/Soil&Sediments/XRF: version 1.0
199	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Cu	NML/AAC/Soil&Sediments/XRF: version 1.0
200	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Dy	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
201	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Er	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
202	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Eu	NML/AAC/Soil&Sediments/ICP - MS: version 1.0
203	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Fe2O3	NML/AAC/Soil&Sediments/XRF: version 1.0
204	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ga	NML/AAC/Soil&Sediments/XRF: version 1.0
205	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Gd	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
206	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ge	NML/AAC/Soil&Sediments/ICP-Ms: version 1.0
207	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Hf	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
208	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ho	NML/AAC/Soil&Sediments/ICP-MS: version 1.0

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209	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	K2O	NML/AAC/Soil&Sediments/XRF: version 1.0 dtd
210	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	La	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
211	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Lu	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
212	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	MgO	NML/AAC/Soil&Sediments/XRF: version 1.0
213	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	MnO	NML/AAC/Soil&Sediments/XRF: version 1.0
214	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Na2O	NML/AAC/Soil&Sediments/XRF version 1.0
215	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Nb	NML/AAC/Soil&Sediments/XRF: version 1.0
216	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Nd	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
217	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ni	NML/AAC/Soil&Sediments/XRF: version 1.0
218	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	P2O5	NML/AAC/Soil&Sediments/XRF: version 1.0
219	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Pb	NML/AAC/Soil&Sediments/XRF: version 1.0
220	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Pr	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
221	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Rb	NML/AAC/Soil&Sediments/XRF: version 1.0
222	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Sc	NML/AAC/Soil&Sediments/XRF: version 1.0
223	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Se	NML/AAC/Soil&Sediments/Hydride AAS Method: version 1.0
224	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	SiO2	NML/AAC/Soil&Sediments/XRF: version 1.0
225	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Sm	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
226	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Sn	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
227	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Sr	NML/AAC/Soil&Sediments/ XRF: version 1.0

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228	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Ta	NML/AAC/Soil&Sediments/ICP-MS:version 1.0
229	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Tb	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
230	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Th	NML/AAC/Soil&Sediments/XRF: version 1.0
231	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	TiO2	NML/AAC/Soil&Sediments/XRF: version 1.0
232	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Tm	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
233	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	U	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
234	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	V	NML/AAC/Soil&Sediments/XRF: version 1.0
235	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Y	NML/AAC/Soil&Sediments/XRF: version 1.0
236	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Yb	NML/AAC/Soil&Sediments/ICP-MS: version 1.0
237	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Zn	NML/AAC/Soil&Sediments/XRF: version 1.0
238	CHEMICAL- ORES & MINERALS	Soil & Sediments (Rare Earth Trace Elements)	Zr	NML/AAC/Soil&Sediments/XRF: version 1.0
239	CHEMICAL- SOLID FUELS	Coal	Ash	ASTM D7582
240	CHEMICAL- SOLID FUELS	Coal	Ash	IS 1350 (Part I)
241	CHEMICAL- SOLID FUELS	Coal	Carbon	ASTM D5373
242	CHEMICAL- SOLID FUELS	Coal	Equilibrated Moisture (60% RH 40°C)	IS 1350 (Part I)
243	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	ASTM D7582
244	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon	IS 1350 (Part I)
245	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	ASTM D5865
246	CHEMICAL- SOLID FUELS	Coal	Hydrogen	ASTM D5373
247	CHEMICAL- SOLID FUELS	Coal	Moisture (as received)	ASTM D7582
248	CHEMICAL- SOLID FUELS	Coal	Moisture (as received)	IS 1350 (Part I)
249	CHEMICAL- SOLID FUELS	Coal	Nitrogen	ASTM D5373
250	CHEMICAL- SOLID FUELS	Coal	Total Moisture	IS 1350 (Part I)

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251	CHEMICAL- SOLID FUELS	Coal	Total Sulphur	ASTM D4239
252	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ASTM D7582
253	CHEMICAL- SOLID FUELS	Coal	Volatile Matter (VM)	IS 1350 (Part I)