National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6068 **Page No** 1 of 7

Validity 01/08/2021 to 31/07/2023 **Last Amended on** 02/08/2021

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- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	B	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
2	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Al	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
3	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Cd	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
4	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Ce	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
5	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Co	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
6	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Cr	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
7	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Dy	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
8	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Er	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
9	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Eu	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
10	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Fe	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
11	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Gd	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
12	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Mg	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
13	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Mn	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
14	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Ni	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
15	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Sm	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
16	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Uranium(U3O8)	OS/QCL/LMS/WI/CHEM/17,Issue No.1,Revision-00
17	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Y	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00
18	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Nuclear Grade Ammonium di-Uranate (NGADU)	Yb	OS/QCL/LMS/WI/CHEM/16,Issue No.1,Revision-00

SCOPE OF ACCREDITATION

Laboratory Name :	IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6068	**Page No**	2 of 7
Validity	01/08/2021 to 31/07/2023	**Last Amended on**	02/08/2021

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
19	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride (ReCl3)Flakes	Ni	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
20	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride (ReCl3)Solution	Nd2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
21	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3) Solution	CaO	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
22	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3) Solution	Gd2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
23	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3) Solution	Na2O	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
24	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3) Solution	Pb	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
25	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3) Solution	Pr6O11	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
26	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Al	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
27	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Ba	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
28	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	CaO	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
29	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	CeO2	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
30	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Fe	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
31	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Gd2O3	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
32	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	La2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
33	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	MgO	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
34	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Na2O	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
35	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Nd2O3	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
36	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Pb	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
37	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Pr6O11	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00

SCOPE OF ACCREDITATION

Laboratory Name :	IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-6068	**Page No**	3 of 7
Validity	01/08/2021 to 31/07/2023	**Last Amended on**	02/08/2021

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
38	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	SiO2	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
39	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Sm2O3	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
40	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Sr	OS/QCL/LMS/WI/CHEM/15, issue No.1,Revision-00
41	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Th	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
42	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	TREO	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
43	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	U	OS/QCL/LMS/WI/CHEM/14,Issue No.1,Revision-00
44	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Flakes	Y2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
45	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Al	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
46	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Ba	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
47	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	CeO2	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
48	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Fe	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
49	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	La2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
50	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	MgO	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
51	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Na2O	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
52	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Ni	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
53	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	SiO2	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
54	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Sm2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
55	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Sr	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
56	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Th	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00

SCOPE OF ACCREDITATION

Laboratory Name : IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6068 **Page No** 4 of 7

Validity 01/08/2021 to 31/07/2023 **Last Amended on** 02/08/2021

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
57	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	TREO	OS/QCL/LMS/WI/CHEM/14
58	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	U	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
59	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Rare Earths Chloride(ReCl3)Solution	Y2O3	OS/QCL/LMS/WI/CHEM/15,Issue No.1,Revision-00
60	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Thorium Nitrate	Cl-	OS/QCL/LMS/WI/CHEM/19,Issue No.1,Revision-00
61	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Thorium Nitrate	ThO2	OS/QCL/LMS/WI/CHEM/18,Issue No.1,Revision-00
62	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-Sodium Phosphate(TSP)	Carbonate Alkalinity as NaOH	OS/QCL/LMS/WI/CHEM/10,Issue No.1,Revision-00
63	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-Sodium Phosphate(TSP)	Chloride as Cl	OS/QCL/LMS/WI/CHEM/11,Issue No.1,Revision-00
64	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-Sodium Phosphate(TSP)	Insoluble Content	OS/QCL/LMS/WI/CHEM/09,Issue No.1,Revision-00
65	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-Sodium Phosphate(TSP)	Iron as Fe	OS/QCL/LMS/WI/CHEM/12,Issue No.1,Revision-00
66	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-Sodium Phosphate(TSP)	Phosphate as P2O5	OS/QCL/LMS/WI/CHEM/10,Issue No.1,Revision-00
67	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-Sodium Phosphate(TSP)	Soluble silica as SiO2	OS/QCL/LMS/WI/CHEM/13,Issue No.1,Revision-00
68	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	Tri-sodium Phosphate(TSP)	Total Alkalinity as NaOH	OS/QCL/LMS/WI/CHEM/10,Issue No.1,Revision-00
69	CHEMICAL- ORES & MINERALS	Garnet Mineral	Garnet	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
70	CHEMICAL- ORES & MINERALS	Garnet Mineral	Ilmenite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01 (Microscopic)
71	CHEMICAL- ORES & MINERALS	Garnet Mineral	Monazite	OS/QCL/LMS/WI/MIN/06,Issue No.1, Revision-01(Microscopic)
72	CHEMICAL- ORES & MINERALS	Garnet Mineral	Others (Staurolite, Spinel, Epidote, Hypersthene, Hornblende, Tourmaline)	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01 (Microscopic)
73	CHEMICAL- ORES & MINERALS	Garnet Mineral	Rutile	OS/QCL/LMS/WI/MIN/06,Issue No.1, Revision-01(Microscopic)
74	CHEMICAL- ORES & MINERALS	Garnet Mineral	Sillimanite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01 (Microscopic)

SCOPE OF ACCREDITATION

Laboratory Name : IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6068 **Page No** 5 of 7

Validity 01/08/2021 to 31/07/2023 **Last Amended on** 02/08/2021

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
75	CHEMICAL- ORES & MINERALS	Garnet Mineral	Zircon	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
76	CHEMICAL- ORES & MINERALS	Garnet: Size Analysis(in Mesh)	+30#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
77	CHEMICAL- ORES & MINERALS	Garnet: Size Analysis(in Mesh)	-170, +200#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
78	CHEMICAL- ORES & MINERALS	Garnet: Size Analysis(in Mesh)	-30, +60#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
79	CHEMICAL- ORES & MINERALS	Garnet: Size Analysis(in Mesh)	-50,+100#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
80	CHEMICAL- ORES & MINERALS	Garnet: Size Analysis(in Mesh)	-60,+80#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
81	CHEMICAL- ORES & MINERALS	Garnet:Size Analysis(in Mesh)	-100, +120#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
82	CHEMICAL- ORES & MINERALS	Garnet:Size Analysis(in Mesh)	-120, +140#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
83	CHEMICAL- ORES & MINERALS	Garnet:Size Analysis(in Mesh)	-140, +170#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
84	CHEMICAL- ORES & MINERALS	Garnet:Size Analysis(in Mesh)	-200#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
85	CHEMICAL- ORES & MINERALS	Garnet:Size Analysis(in Mesh)	-80,+100#	OS/QCL/LMS/WI/MIN/03,Issue No.1,Revision-01
86	CHEMICAL- ORES & MINERALS	Ilmenite Mineral	FeO	OS/QCL/LMS/WI/CHEM/04,Issue No.1,Revision-01
87	CHEMICAL- ORES & MINERALS	Ilmenite Mineral	TiO2	OS/QCL/LMS/WI/CHEM/03,Issue No.1,Revision-01
88	CHEMICAL- ORES & MINERALS	Ilmenite Mineral	Total Iron (as Fe2O3)	OS/QCL/LMS/WI/CHEM/05,Issue No.1,Revision-01
89	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Garnet	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
90	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Ilmenite	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
91	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Monazite	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision No.01,(Microscopic)
92	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Others (Leucoxene, Hornblende, Spinel)	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)

SCOPE OF ACCREDITATION

Laboratory Name : IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6068 **Page No** 6 of 7

Validity 01/08/2021 to 31/07/2023 **Last Amended on** 02/08/2021

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
93	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Quartz	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
94	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Rutile	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
95	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Sillimanite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
96	CHEMICAL- ORES & MINERALS	Ilmenite Mineral Analysis	Zircon	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
97	CHEMICAL- ORES & MINERALS	Rutile Mineral	TiO2	OS/QCL/LMS/WI/CHEM/06,Issue No.1,Revision-01
98	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Garnet	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
99	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Ilmenite	OS/QCL/LMS/WI/MIN/06,Isue No.1,Revision-01(Microscopic)
100	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Monazite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
101	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Others (Leucoxene, Hornblende, Spinel)	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
102	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Quartz	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
103	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Rutile	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
104	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Sillimanite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
105	CHEMICAL- ORES & MINERALS	Rutile Mineral Analysis	Zircon	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
106	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Al2O3	OS/QCL/LMS/WI/CHEM/08,Issue No.1,Revision-01
107	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Garnet	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
108	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Ilmenite	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
109	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Monazite	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
110	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Others (Tourmaline, Topaz, Staurolite, Hornblende, Hypersthene, Augite)	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)

SCOPE OF ACCREDITATION

Laboratory Name : IREL (INDIA) LIMITED, QUALITY CONTROL LABORATORY (QCL), TECHNICAL SERVICES, ORISSA SANDS COMPLEX, MATIKHALO, CHATRAPUR, GANJAM, ODISHA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6068 **Page No** 7 of 7

Validity 01/08/2021 to 31/07/2023 **Last Amended on** 02/08/2021

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
111	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Quartz	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
112	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Rutile	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
113	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Sillimanite	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
114	CHEMICAL- ORES & MINERALS	Sillimanite Mineral	Zircon	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
115	CHEMICAL- ORES & MINERALS	Zircon Mineral	Garnet	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(MIcroscopic)
116	CHEMICAL- ORES & MINERALS	Zircon Mineral	Ilmenite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
117	CHEMICAL- ORES & MINERALS	Zircon Mineral	Monazite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
118	CHEMICAL- ORES & MINERALS	Zircon Mineral	Others (Spinel, Staurolite, Hornblende, Hypersthene)	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
119	CHEMICAL- ORES & MINERALS	Zircon Mineral	Quartz	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
120	CHEMICAL- ORES & MINERALS	Zircon Mineral	Rutile	OS/QCL/LMS/WI/MIN/06,Issue No.01,Revision-01(Microscopic)
121	CHEMICAL- ORES & MINERALS	Zircon Mineral	Sillimanite	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
122	CHEMICAL- ORES & MINERALS	Zircon MIneral	Zircon	OS/QCL/LMS/WI/MIN/06,Issue No.1,Revision-01(Microscopic)
123	CHEMICAL- ORES & MINERALS	Zircon Mineral	ZrO2	OS/QCL/LMS/WI/CHEM/07,Issue No.1,Revision-01