National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	QUALITY CONTROL & RESEARCH LABORATORY, RARE EARTHS DIVISION, IREL(INDIA) LIMITED, UDYOGAMANDAL, KOCHI, KERALA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-6900
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Validity	07/02/2022 to 06/02/2024
Last Amended on	22/03/2022

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- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	CALCIUM AS CaO ON TREO BASIS	SOP NO. IRE/RED/LMS/SOP/03, ISSUE No. 03 (AAS)
2	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	CERIUM AS CERIUM OXIDE ON TREO BASIS(BY DIFFERENCE)	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
3	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	IRON AS Fe2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
4	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	LANTHANUM AS La2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
5	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	LEAD AS PbO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
6	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	MAGNESIUM AS MgO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
7	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	NEODYMIUM AS Nd2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
8	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	PRASEODYMIUM AS Pr6O11 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
9	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	SODIUM AS Na2O ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
10	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	CERIUM CARBONATE	TOTAL RARE EARTHS OXIDE (TREO)	SOP No.IRE/RED/LMS/SOP/02, ISSUE No. 03, (GRAVIMETRY)
11	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM NITRATE	TOTAL RARE EARTHS OXIDE (TREO)	IRE/RED/LMS/SOP/01 (GRAVIMETRY) ISSUE NO.03
12	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	DYSPROSIUM AS Dy2O3 ON TREO BASIS	SOP NO. IRE/RED/LMS/SOP/04, ISSUE NO.03, (ICP-AES)
13	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	EUROPIUM AS Eu2O3 ON TREO BASIS	SOP No. IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
14	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	GADOLINIUM AS Gd2O3 ON TREO BASIS (BY DIFFERENCE)	SOP No. IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
15	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	IRON AS Fe2O3 ON TREO BASIS	SOP No. IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
16	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	SAMARIUM AS Sm2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
17	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	TERBIUM AS Tb4O7 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
18	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	GADOLINIUM OXIDE	YITTRIUM AS Y2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL & RESEARCH LABORATORY, RARE EARTHS DIVISION, IREL(INDIA) LIMITED, UDYOGAMANDAL, KOCHI, KERALA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 07/02/2022 to 06/02/2024 **Last Amended on** 22/03/2022

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
19	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	CALCIUM AS CaO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No.03 (AAS)
20	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	CERIUM AS CeO2 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
21	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	IRON AS Fe2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No.03,(AAS)
22	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	LANTHANUM AS La2O3 ON TREO BASIS (BY DIFFERENCE)	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03,(ICP-AES)
23	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	LEAD AS PbO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
24	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	MAGNESIUM AS MgO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
25	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	NEODYMIUM AS Nd2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
26	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	PRASEODYMIUM AS Pr6O11 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
27	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	SODIUM AS Na2O ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03 (AAS)
28	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	LANTHANUM CARBONATE	TOTAL RARE EARTHS OXIDE (TREO)	SOP No. IRE/RED/LMS/SOP/01 (GRAVIMETRY), ISSUE No. 03,
29	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXALATE	TOTAL RARE EARTHS OXIDE (TREO)	SOP No.IRE/RED/LMS/SOP/01, ISSUE No. 03, (GRAVIMETRY)
30	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	CALCIUM AS Ca2O ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
31	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	CERIUM AS CeO2 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
32	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	IRON AS Fe2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
33	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	LANTHANUM AS La2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
34	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	LEAD AS PbO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
35	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	MAGNESIUM AS MgO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
36	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	NEODYMIUM OXIDE AS Nd2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/02, ISSUE No. 03, (UV-VIS SPECTROPHOTOMETRY)

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37	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	PRASEODYMIUM OXIDE AS Pr6O11 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/02, ISSUE No. 03, (UV-VIS SPECTROPHOTOMETRY)
38	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	SAMARIUM AS Sm2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
39	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM -PRASEODYMIUM OXIDE	TOTAL RARE RARTHS OXIDE (TREO)	SOP No.IRE/RED/LMS/SOP/01, ISSUE No. 03, (GRAVIMETRY)
40	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	NEODYMIUM- PRASEODYMIUM OXIDE	SODIUM AS Na2O ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No.03, (AAS)
41	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXALATE	TOTAL RARE EARTHS OXIDE (TREO)	SOP No.IRE/RED/LMS/SOP/01, ISSUE No.03, (GRAVIMETRY)
42	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	CALCIUM AS CaO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No.03, (AAS)
43	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	EUROPIUM AS Eu2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
44	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	GADOLINIUM AS Gd2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03, (ICP-AES)
45	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	IRON AS Fe2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No.03, (AAS)
46	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	LEAD AS PbO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No.03, (AAS)
47	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	MAGNESIUM AS MgO ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
48	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	NEODYMIUM AS Nd2O3 ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/04, ISSUE No.03 (ICP-AES)
49	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	SAMARIUM AS Sm2O3 ON TREO BASIS (BY DIFFERENCE)	SOP No.IRE/RED/LMS/SOP/04, ISSUE No. 03, (ICP-AES)
50	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	SODIUM AS Na2O ON TREO BASIS	SOP No.IRE/RED/LMS/SOP/03, ISSUE No. 03, (AAS)
51	CHEMICAL- INDUSTRIAL & FINE CHEMICALS	SAMARIUM OXIDE	TOTAL RARE EARTHS OXIDE (TREO)	SOP No.IRE/RED/LMS/SOP/01, ISSUE No. 03, (GRAVIMETRY)