National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NUCLEAR COUNTING FACILITY, INDIRA GANDHI CENTRE FOR ATOMIC RESEARCH, CHENGALPATTU, KANCHIPURAM, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11406 **Page No** 1 of 3

Validity 22/02/2023 to 21/02/2025 **Last Amended on** -

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	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Coal	K-40	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
2	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Coal	Th-232	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
3	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Coal	U-238	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
4	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Fly Ash	K-40	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
5	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Fly Ash	Th-232	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
6	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Fly Ash	U-238	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
7	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Rock phosphate, Gypsum, Uraninite , Rutile, Ilmenite	Th-232	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
8	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Rock phosphate, Gypsum, Uraninite , Rutile, Ilmenite	U-238	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
9	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Soil, Vegetation , Biota	Cs-134	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
10	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Soil, Vegetation and Biota	Cs-137	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)

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11	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Soil, Vegetation, Biota	Carbon-14	IAEA technical report series No: 421 (Liquid scintillating counting)
12	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Soil, Vegetation, Biota	K-40	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
13	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Soil, Vegetation, Biota	U-238	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
14	RADIOLOGICAL-ENVIRONMENT (RADIOACTIVE CONTAMINANTS)	Soil. Vegetation , Biota	Th-232	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
15	RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS)	packaged food Material for human consumption	Cs-134	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
16	RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS)	packaged food Material for human consumption	Cs-137	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
17	RADIOLOGICAL- FOOD AND AGRICULTURE PRODUCTS (RADIOACTIVE CONTAMINANTS)	packaged food Material for human consumption	Sr-90	IAEA Technical report series No.295 (Radio chemical analysis-beta counting system)
18	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Cs-134	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
19	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Cs-137	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)
20	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Gross Alpha activity	IS 14194 (part 2)
21	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Gross Beta activity	IS 14194 (part 1)
22	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	I-131	IAEA Technical report series No.295 (HpGe based Gamma spectrometry method)

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23	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Ra-226	BARC/2008/E/023 HpGe based Gamma spectrometry
24	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Ra-228	BARC/2008/E/023 (radiochemical analysis)
25	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Th-232	BARC/2008/E/023 (HpGe based Gamma spectrometry)
26	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	Tritium	US EPA-906.0
27	RADIOLOGICAL- WATER (RADIOACTIVE CONTAMINANTS)	Water	U 238	BARC/2008/E/023 (HpGe based gamma spectrometry)