

NATIONAL CENTRE FOR SUSTAINABLE COASTAL MANAGEMENT

Ministry of Environment and Forests (MoEF)

Koodal Building, Anna University Campus

Chennai – 600025

ITEM: PORTABLE ENVIRONMENTAL GAMMA [MICROREM/HR] SURVEY METER

APPLICATION: for measuring ambient gamma radiation level (very low dose) in terrestrial and aquatic environment in public domain

TECHNICAL SPECIFICATIONS (Quantity : 1 No.)

Environmental Gamma Survey Meter with probe, portable type, rugged in construction, water proof, lightweight, in the range of 1µrem/hour to 200 mrem/hr having the following specifications:

Item No:	Specifications	
1	Detector	Tissue equivalent organic scintillator/ NaI(Tl) /CsI(Tl)
2	Display Unit	microR/h; microRem/hr; to read absorbed dose rate directly
3	Dose Rate Range	1 microrem/hour TO 200 mrem/hour Five linear ranges : x0.1, x1, x10, x100, and x1000
4	Gamma detection range (approx.)	40-1500 KeV; accurate to within 10% of reading for Cs-137
5	Display	Analog/digital
6	Operating Controls	Complete and automatic self test when switching on. Periodic control of main functions when in use.
7	Battery Type:	Integrated rechargeable batteries (Li-ion)/alkaline battery/Two 9-volt batteries
8	Spares	i. carrying case: 1 no ii. handle: 1 no
9	GPS (optional)	simultaneous measurement of GPS in each location
10	Alarm(optional)	A fixed alarm point that can be set at any point from 10% of full scale to full scale, and is indicated by a constant audible tone and the lamp turning on.