

Technical Specifications	
Gamma Spectrometry and Activity Channel	
Qty: 01 No.	
Detector	p-type HPGe
Relative Efficiency	≥ 20%
Energy Resolution keV at 122 keV at 1332 keV	≤ 1.0 keV ≤ 2.0 keV
Gamma Radiation Energy Range	10 keV to 3.0 MeV
MCA Channel for Gamma Spectrum	≥ 04K
Neutron Channel	
Detector	Li ⁶ /ZnS
Sensitivity for ²⁵² Cf	> 20000 n/s in 2 sec
Minimum Detectable Activity for ²⁵² Cf	1.8 × 10 ⁴ neutrons/sec
Gamma Dose Rate Measurement Channel	
Detector	Compensated GM Tube
Dose Rate Measurement Range	10 nSv/hr to 250 mSv/hr
General Specifications	
Cryostat and Cooler	Metal-sealed and rugged cryostat, Stirling-cycle miniature cooler with operation time > 8 hours and Cooling Time ≤ 24 hours
Operation in Temperature Range	-10°C to 50°C
Relative Humidity	Upto 80%
IP Protection Rating	IP65, rugged, Ergonomically accepted
Display	Color TFT Touch Screen with good resolution
Alarm	Audio and Visual
Operation modes	Search, Locate, Identify, Spectrum
Connectivity	USB, LAN for PC
Operating System	Microsoft Windows 7 or above
Electrical Power Input	Multiple Sources including internal battery (rechargeable/exchangeable), supplemental external battery, Automobile battery and standard 240V connectivity.
Deliverable Data Items	
i. Supplier shall provide complete sets of operation and servicing manuals both in hard and soft form (in English Language). ii. Supplier shall provide accessories like spare batteries, car adopter, charger etc.	