Name of Machine	High Pu	rity Germanium Detector
	/ Million Technologies,	Model N-Type Coaxial Detector, GR 2018
	Canberra Industries, U.S.A	Detector model
	CANBER	RRA
		Specification
	nergy range from 40 keV to >1	
	gh resolution - good peak sha	pe
	cellent timing resolution	
	gh energy rate capability puipped with Intelligent Pream	polifior
	ode FET protection	ipinei
	arm-up/HV shutdown	
	SB 2.0 Serial Interface	
		Working principle:
(I) regio reverse b interact and elect This cha	Im detectors are semiconducton n is sensitive to ionizing radio bias, an electric field extends with the material within the output trons) are produced and are so rge, which is in proportion to	or diodes having a p-i-n structure in which the intrinsic diation, particularly x rays and gamma rays. Under across the intrinsic or depleted region. When photons depleted volume of a detector, charge carriers (holes swept by the electric field to the P and N electrodes the energy deposited in the detector by the incoming se by an integral charge sensitive preamplifier.
		Application
Fo	or dose rate measurement (Rad	lioactive mineral concentrations)
	Us	ser Instruction
		e instructions and method given in Morthekai and Alia artz-for End Users, Gond. Geol. Mag., V. 29".
		ontact Person
In-Charg		(0522-2742974); '@ <u>gmial.com;</u> anupam.sharma@bsip.res.in
Staff.	Dr. S. N. Ali (0522-2	742914), Email: snawazali@gmail.com;
Staff:	·	