

(19)

Annexure -X

Technical specification of Scintillation detector with PMT

Specification		Description
Spectral Response Range		300-650 nm
Peak wave -Length(nm)		420 nm
Photocathode Minimum Effective Area		46 mm
Photocathode Material		Bialkali
Window Material		Borosilicate glass
Dynode Structure/Stages		Box-and-grid/10
Cathode Luminous Sensitivity	Min.	60 μ A/lm
Cathode Blue Sensitivity	Min.	7 μ A/lm
Anode Luminous Sensitivity	Min.	100 A/lm@1250V
Typ.		400 A/lm @1250 V
Anode Dark Current	Max.	100 nA@1250V
Anode to Cathode Voltage (DC)	Max.	1500V
Rise Time	Typ.	7 ns
Operating Ambient Temperature		(-30°to 50°C)
Suitable Socket		E678-14W
Modal Number		2M2/2
Detector Components,Scintillator		DIA2*2 NaI(Tl) scintillator
Detector components-PMT		10Stage Dia.2inch PMT with 14.pin connector
Energy Resolution		<7.5% @662KeV(Cs-137)
High voltage		400-1100V(Positive polarity ornegative polarity configiration)
Housing		aluminium housing