### **SECTION-C**

#### Tender no. IPR/TN/PUR/ET/20-21/17 dated 25-02-2021

# TECHNICAL SPECIFICATIONS / COMPLIANCE STATEMENT OF LaBr3 (Ce) SCINTILLATION BASED DETECTOR SYSTEM WITH ACCESSORIES

IPF	R Specification for La	Br <sub>3</sub> (Ce) Scintillation	based detector system	Vender comment	
1	Cerreto1	LaBr <sub>3</sub> (Ce) (lanthanu	ım bromide detector cerium		
1	Crystal	doped)			
2	Crystal Size	1.5 inch X 1.5 inch			
3	<b>Energy Resolution</b>	Less than 4 % energ	y resolution @662keV of Cs-137		
4	Coincidence Resolving time	600p Sec or less			
5	Detector should be	ight tight and having metal seal.			
6	Energy range	0.1MeV to ~15MeV			
7	PMT size	More than 8 stage			
	PMT Base				
1	PMT base Should co	ntain			
		HV power supply	Compatible to the PMT		
		Preamplifier			
		Multi-channel Analyser			
		ADC	12 bit or better		
		Connections	Standard 14 pin PMT sockets.		
		USB and Ethernet	USB and Ethernet ports for communication		
		External trigger	TTL pulse		
2	<b>Acquisition Modes</b>	PHA mode (must)			
3	Incoming Count rate (base)	coming Count 200K cas or better			
4	Accessories			•	
		~3 meter cable Ether	rnet for communication		
		Related software: Basic spectroscopy software			
		(Compatible to windows 10)			
		Software Development Kit			
5	Power	Operate with 220V, 50Hz supply			
6	The documents to b	e submitted with the		-	
	Product Manual				
	Operation	Operation Manuals			
7		s for IPR approval before dispatch of the item			
	Calibration certificate for energy Resolution (Establish energy				
		ion Less than 4 % at 662keV of Cs-137)			
8		nstallation at IPR (by the Vender)			
	Installation of LaBr system at IPR				
	(by the Vender)				
		,	solution Less than 4 % @ 662keV		
		Cs-137 (by the Vender). Cs-137 source will be			
		provided by IPR.	,		

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0	Acceptance	Energy Resolution Less than 4 % at 662keV of Cs-	
9	criterion	137	

AUTHORIZED SIGNATOPRY OFFICIAL SEAL & DATE