

ANNEXURE:1

Dual Channel Alpha Beta with Drawer Assembly (MODEL: PNC $\alpha\beta$)

1. Counter

- * Electronics All solid state, Micro-Controller based design
- * Preset Time Time settable between 1 and 9999 seconds in Step of 1 second
- * No. of Runs Settable between 1 to 1000
- * Display Counts : 999999 ,Time : 9999 Seconds *Runs : 500 Alpha + 500 Beta
- * HV Supply Adjustable to 1000V by setting front panel mounted heliport with calibrated dial
- * Data Storage Store and recall facility for data up to 1000 readings
- * User Interface 4 keys keypad with 20x4 line LCD for displaying Key function
- * Data Transfer To PC - via USB 2.0 through Windows based Data Transfer Software

2. Composite Detector

- * Radiation Detected: Alpha and Beta Particles
- * Detector: ZnS(Ag) adhered to 0.10" thick Plastic Scintillator mounted on 1.5" PMT.
- * Efficiency: 25% for Pu239, 60% for Th230, 20% for Sr90/ Yr90, 5% for C14
- * Background: 3 – 4 counts per hour for Alpha particles , 3 – 4 counts per minute for Beta Particles
- * Crosstalk: Alpha to Beta <10% , Beta to Alpha <1%

3. Power Supply

240 V (+ 10%), 50 Hz Ac Mains