

Annexure-1

Pellet Fluorometer and Essential Spares

S. No.	Material code	Description of materials	Unit code	Quantity
A	100034036001	Pellet Fluorometer (Model: FL6224A; Make: ECIL)	01	11
Technical Specification of Fluorometer ECIL; Model: FL6224A				
1.	Optical Chamber			
a	Light source	4Watts UV Lamps having peak emission at 360nm contained in woods glass envelope which acts as primary filter. The range of emission is item 320nm to 380nm.		
b	Filter	A band pass filter with a pass band from 530nm to 580nm		
c	Optical	Sample in solid form can be analysed		
2	Measuring System			
a	EHT for photomultiplier tube 200 to 600 V continuously variable			
b	Range 10, 1, 0.1, 0.01 by manual selection			
3	Sensitivity	Can detect and estimate Uranium down to 10^{-10} g in a 0.4g sample pallet.		
4	Linearity	Follows Lambert Beer's Law closely		
5	Accuracy	+/-1%		
6	Reproducibility	+/-2%		
7	Display	3 digit digital display, 0 to 100		
SPARES				
S. No.	Material code	Description of materials	Unit code	Quantity
1	300034036002	Amplifier PCB	01	11
2	300034036001	EHT PCB	01	11
3	300034036016	UV Lamps (Fluorescence) 4Watts	01	66
4	300034036003	Line Filter	01	33
5	300034036004	5K 10 Turn Pot	01	55
6	300034036005	5K 10 Multi Dial Pot	01	55
7	300034036006	Panel meter	01	11
8	300034036007	Photo Multiplier Tube, R928	01	22
9	300034036008	Sample holder dish No. 1 Top dia.: 16mm, Bottom Dia.: 10mm Height: 2.5mm, Capacity: 0.4ml	01	44
10	300034036017	Sample holder dish No. 2 Top dia.: 17mm, Bottom Dia.: 10mm, Height: 3mm, Capacity: 0.4ml	01	44
11	300034036009	Slide bar	01	44
12	300034036010	3 Pin Regulator T03 LM7805	01	22
13	300034036011	3 Pin Regulator T03 LM7812	01	22
14	300034036012	3 Pin Regulator T03 LM7912	01	22
15	300034036013	IC 13542	01	22
16	300034036014	1 Pole, 4 way rotary switch OEN (Range switch Assembly)	01	44
17	300034036015	Spare limit switch for UV Fluorometer (FL6224A)	01	55

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