

### APPENDIX-3C

(Refer section 3.2.2.4 for IARPF and PARF<10 MeV)

(Refer section 3.7.8.3 for IAF-NDT)

#### FORMAT FOR ACCEPTANCE TEST REPORT (ATR) FOR ACCELERATOR FACILITIES [IARPF, IAF-NDT AND PARF<10MeV]

**(All the safety systems/ sensors/ signals/ interlocks should be tested atleast 15-20 times, with accelerator ON and OFF condition and consolidated report in the format prescribed herewith shall be submitted)**

1. General

Name and address of the operating institution :

Telephone No. :

Fax :

Facility-in-charge :

Radiological safety officer :

AERB approval details and reference :

Date of expiry : \_\_\_\_\_

Type of Facility : Radiation processing/ Research (<10MeV)/NDT :

2. Accelerator Specifications

Maximum voltage (MV)	
Maximum beam current (mA)	
Particles accelerated	
Vacuum (Torr)	
Maximum beam dimensions (mm)	
Scan amplitude/Scan angle	

3. Performance of Beam Calibration Devices

	Type of calibration	Expected response of control system	Observed response of the control system
Energy calibration			
Current calibration			

4. Performance of Safety System/Interlocks

Safety System/ Interlock with location	Test conducted	Expected response of control system	Observed response of the control system

5. Radiation Survey of the Facility during the Beam ON Condition at Maximum Parameters

Location	Nature of occupancy	Radiation level	Detector used

6. Performance of Installed On-line Radiation Monitors and Contamination Monitor

Installed location	Detector type	Make & model	Range	Date of calibration	Alarm level	Functional performance

7. Performance of Warning Indicators

Location	Type of warning indicator(s)	Posted procedures	Functional performance

8. Performance of Various Monitors and Associated Systems

Type of monitor	Functional performance
Ozone monitor	
Cryogenic leak monitor	
Instruments to monitor prompt high energy radiation	
Pulsed beam monitor	
RF monitor	

9. Availability of In-house Facilities (details may be furnished in separate pages)

<b>Type of facility</b>	<b>Available/Not available/ Not applicable</b>
Decontamination facility	
Personal dosimetry rack facility	
Storage of radioactive material	
Monitor for coolant system	
Monitoring of coolant filter	
Radioactive waste management facility	
Dosimetry facility	
Ventilation system	
Others, if any	

10. Availability of the Records

<b>Type of record</b>	<b>Available/ Not available/ Not applicable</b>
Record of training and experience of persons working in the accelerator facility	
Search and secure procedure	
Controlled access procedure	
Operating procedures	
Periodic radiation survey of facility	
Periodic contamination surveys	
Periodic air sampling	
Personnel monitoring records	
Unusual occurrences	

We hereby certify that the above information is correct to the best of our knowledge and belief.

Place:

Signature:

Date:

Name:

Designation:

Name and Designation  
of Facility-in-charge:

Signature: