

LAYOUT REQUIREMENTS FOR GAMMA IRRADIATION CHAMBER

The layout for installation of Gamma Irradiation Chamber (GIC), should meet the following requirements:

- (a) The room for installation of GIC should be an exclusive room having provisions of lock and key arrangement for preventing access by unauthorised personnel.
- (b) This room for GIC installation may be of normal brick wall construction. However, it should be ensured that radiation levels outside the room housing GIC unit shall not exceed the AERB specified limit of 1 μ Sv/h.
- (c) The room should have following features:
 - (i) Preferably located on ground floor for ease of installation
 - (ii) Adequate room size to house the GIC unit
 - (iii) Door size – adequate enough for taking the unit (assembled) inside the room
 - (iv) Floor loading capacity – as per the weight and base size of the unit.
- (d) The layout should meet the security provisions as per the AERB Safety Guide on “Security of Radioactive Sources in Radiation Facilities”(AERB/RF-RS/SG-1)

Layout approval shall be obtained through the on-line portal, www.aerb.gov.in/e-LORA

In general, the following minimum documents have to be submitted along with the application form.

- i) Two copies of duly signed and stamped document on layout plan (scale 1:100) of GIC installation room indicating the following :
 - (i) Size of the room
 - (ii) Thickness of the walls and shielding material details
 - (iii) Location of entrance door, position of windows (if any) along with height from ground level
 - (iv) Pit size (as applicable)
 - (v) Occupancy in the immediate vicinity of the installation room
 - (vi) Floor loading capacity as prescribed by GIC supplier.