



BRIT

BOARD OF RADIATION & ISOTOPE TECHNOLOGY
DEPARTMENT OF ATOMIC ENERGY
GOVERNMENT OF INDIA

Inspection Check List for ROLI Devices

The following information needs to be furnished by the RSO along with the camera submitted for Servicing and source replenishment at BRIT (Mandatory requirement of AERB)

1. Model/ Sr. No. of the IGRED : _____ : Visible/Not Legible
2. Radiation symbol and identification plate : Available/Not available
3. (a) Physical damage, if any on the IGRED : Yes/No
(b) Nature of damage (if any) :
4. Lifting handles of the IGRED : Available/Not available
5. (a) Back cover lock : Working/Not working
(b) Performance of this lock : Satisfactory/Not satisfactory
(a) Back cover closing : Proper/Not Proper
6. (a) Drive unit of the IGRED : Available/Not available
(b) Sl. No. of IGRED on the drive unit : Engraved/Not engraved
(a) Operation of the drive unit : Satisfactory/Not satisfactory
(b) Odometer on the drive unit : Available/Not available
(c) Functioning of the odometer : Proper/Not proper
7. (a) Crimping of male coupler with drive cable : Proper/Not proper
(b) Physical damage, if any, on male coupler : Yes/No
(c) If Yes, nature of damage :
(d) Flexibility of the drive cable new male coupler : Proper/Not proper
(e) Dimensions of male coupler : : Proper/Not proper
(f) Neck diameter : Proper/Not proper
(g) Length of Ball+Neck : Proper/Not proper
(h) Straightness of the male coupler : Proper/Not proper
8. (a) Length of the source holder assembly : Proper/Not proper
(b) Overall diameter of the female coupler : Proper/Not proper
(c) Overall length of the female coupler : Proper/Not proper
(a) Diameter of the ball in the source holder assembly : Proper/Not Proper
(e) Length of the canal : Proper/Not proper

- (f) Width of the canal : **Proper/Not proper**
- (g) Diameter of the socket : **Proper/Not proper**
(Please check with Jig and GO-NO-GO Gauge)
- (h) Distance between ball and female coupler : **Proper/Not proper**
- (i) Straightness of female coupling end : **Proper/Not proper**
- (j) Physical damage, if any in the female coupler : **Yes/No**
- (k) If Yes, nature of the damage
9. Is coupling between male and female coupler possible with angle less than 45° : **Yes/No**
10. Whether-source assembly can be removed from the rear lock : **Yes/No**
11. (a) Functioning of the rear body lock : **Proper/Not proper**
(b) In unlocked condition of the body lock, whether the source holder release knob can be pressed fully : **Yes/No**
12. Functioning of the split coupling : **Proper/Not proper**
13. Functioning of the sliding ring : **Proper/Not proper**
14. Whether without coupling male and female coupler, is it possible to close the sliding ring : **Yes/No**
15. If yes, whether it is possible to project the source assembly forward in unlocked condition : **Yes/No**
16. (a) Guide tubes 1m and 3m : **Available/Not available**
(b) Source stopper plug : **Available/Not available**
(c) Source stopper plug : **Proper/Not proper**
16. (a) Source holder arrestor assembly in the front side : **Available/Not available**
(b) Functioning of the source arrestor pin at the front side : **Proper/Not proper**
(c) Threading of the guide tube coupler : **Proper/Not proper**
(d) Is there any play between guide tube and IGRED : **Yes/No**
(d) Threading of the front cap : **Proper/Not proper**
17. Couple the guide tube with the IGRED properly. Couple the drive cable with the source holder assembly properly. Unlock the body lock, press the source holder release knob and drive the pigtail out. Movement of the source holder in the 1m and 3m guide tubes : **Proper/Not proper**
18. Retract the pigtail back to the IGRED. Check the movement of the source holder through the guide tube number of times

Movement of the source holder : **Proper/Not proper**
19. Whether the source holder release knob pops up : **Yes/No**

automatically when the when the source comes back to its safe position in the device.

20. After every operation, whether the source holder assembly has been fully retracted back to the IGRED. : **Yes/No**

21. Without coupling the male and female coupler, is it possible to close the sliding ring ? : **Yes/No**

Issues that may require Servicing (if any) :

- 1.
- 2.
- 3.
- 4.

Checked by:
Name :
Designation: RSO
Instituion Name :

Signature:
Date: