Proper way of Using TLDs in Diagnostic Radiology

The mission of AERB is to ensure that the use of ionizing radiation and nuclear energy in India does not cause undue risk to health of people and the environment.



Issued by :

Atomic Energy Regulatory Board

Nivamak Bhavan, Anushaktinagar Mumbai - 400094. (Maharashtra)



What is TLD Badge



TLD Badge is a radiation dose measuring device. This enables us to know whether we are working within the safe dose limits prescribed by AERB.

Dose limits of Occupational Exposure (AERB Directive)

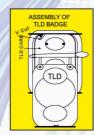
Effective Dose 20 mSv in a year averaged over a period of 5 years

Annual equivalent dose in the

Lens of the eve 150 mSv 500 mSv Skin Hands and feet 500 mSv



Use TLD with cassette!



Loading TLD card in the cassette





TLD without cassette



Wear TLDs below Lead Apron!



TLD above apron

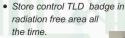


Store TLD - Where?

Personnel TLD is to be properly stored when not working with radiation



Never store/ leave TLD badges inside X-ray Room/Radiation Area.



 Store personnel TLD badge in radiation free area when not in use, along with control TLD badge. (e.g., office room)





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Change your TLD cards every monitoring period (eg. Quarterly) and return used TLD cards to Laboratory for dose assessment.

If TLD fell/left in X-Ray room, and got accidentally exposed, report immediately to the lab and send it for processing.

> Any suspected excessive exposure to personnel should immediately be reported to AERB





List of Laboratories Accredited to provide TLD services

Name of Accredited Laboratory

Srinivasa Nagar, Padi, Chennai, Tamil Nadu Pin- 600050 Tel.: 044-26345288

Renentech Lab. Private Limited C-106, Synthofine Industrial Estate, Off Aarev Road, Goregaon (E). Mumbai, Maharashtra Pin- 490063

Ultratech Lab. Private Limited

Cloth Market G F Road Kumhari, Bhilai, Durg, Chhattisgarh Pin- 490042 Tel.: 0788-3295166, 09981212431

Defence Laboratory, Jodhpur

State

Andhra Pradesh, Telangana,

Puducherry, Andaman and

Nicobar and Lakshdeep

Tamil Nadu, Karnataka, Kerala,

Avanttec Lab. Private Limited

31. Kamrai Street. 044-26630553/54/56

(Southern Region) Maharashtra, Gujarat, Raiasthan, Goa. Dadra and Nagar Haveli

and Diu (Western Region) Tel.: 022-40037476

> All other states in the Central. Northern and North Eastern parts of the country

All Defence institutions of country

Radiation Generating Equipment



FOR DETAILS CONTACT:

Radiation Symbols

The Head.

Radiological Safety Division Atomic Energy Regulatory Board, Nivamak Bhavan, Anushaktinagar Mumbai - 400 094.

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Applications to AERB can now be submitted online through http://www.aerb.gov.in/AERBPortal/eLORA.htm

> * Above information is for quick reference only. For details visit www.aerb.gov.in Credits : jvksunil & team

