Always use TLD badge

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

Always wear your own TLD badge of current period at your chest level.

After work, keep TLD badge at a common place identified/ advised by RSO which is away from radiation area. Do not forget TLD badge in the field.

Warning symbols for radiation sources

Radioactive Source

X-Rays

Radiation dose limits set by AERB for radiation workers

Effective dose:

30 mSv in any year;
20 mSv/year averaged over five consecutive years.

Annual equivalent dose in the:

Hands and feet:	500 mSv
Skin:	500 mSv
Lens of the eye:	150 mSV

Issued by:

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सत्यमेव जयते

Government of India

Atomic Energy Regulatory Board

Radiation Protection in Open Field Industrial Radiography

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

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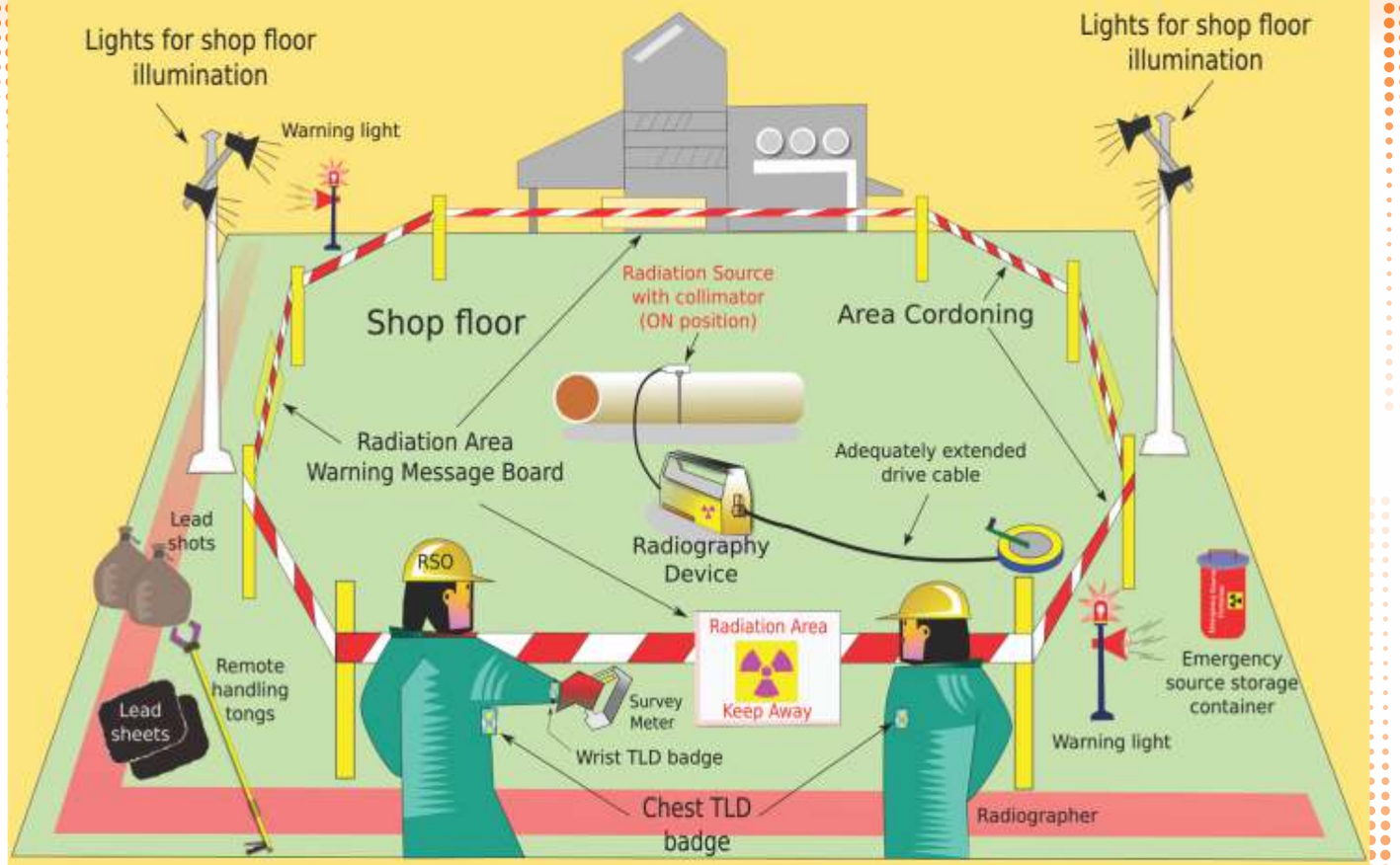
Radiation Protection in Open Field Industrial Radiography



In case of any incident involving radiation source/device, inform Employer/RSO immediately.

Ensure following for radiological safety

- Always carry out open field/shop floor radiography work where & when it is of low occupancy (e.g. Late night time, lunch time, holidays, etc.) with due intimation to concern person of contract awarding agency.
- Always ensure that radiography device is operated by certified radiographer under the guidance of Radiological Safety Officer (RSO).
- Never allow helper/other auxiliary staff to operate the radiography device & keep them away from radiation area.
- TLD badges should be worn by all radiation workers.
- Use working & calibrated survey meter appropriately at radiography site.
- Do not allow simultaneous operation of two or more radiography devices in same cordon off place.
- Ensure proper illumination of radiography place. Adequately cordon-off the area of open field / shop floor radiography.
- Ensure to hang radiation warning signs on cordon-off tapes.
- Ensure to provide warning light around the cordoned area during radiation exposure.
- Ensure availability of emergency handling tools viz. remote handling tongs, emergency source storage container & lead sheets/shoots at the site.
- During set-up, extend adequately the drive cable and the guide tube of the gamma exposure device and the electrical cable of the X-ray machine to ensure optimised i.e. minimum exposure.
- Expose the source for radiography work by using proper collimator.
- Do not allow any person to enter the cordoned area. The cordoned area should be under observation of RSO/ Radiographer through out the exposure.
- On completion of radiation work or during long waiting time, ensure that radiography device is securely stored at site or moved back to authorised storage room.