

**INSTITUTIONAL
RADIATION PROTECTION
COMMITTEE**

**BHARATI VIDYAPEETH (Deemed to be University)
DENTAL COLLEGE & HOSPITAL, PUNE
DEPARTMENT OF ORAL MEDICINE & RADIOLOGY**

INSTITUTIONAL RADIATION SAFETY COMMITTEE

INTRODUCTION

About eLORA System

Over the decade, there has been an accelerated growth in the application of ionising radiation technologies in the fields of medicine, industry and basic research in India. These applications have been accruing huge societal benefits, in terms of cancer treatment, diagnosis and industrial uses such as non-destructive testing, gauging and in food processing applications etc. However, the ionising radiation has certain radiological hazards associated with handling of radiation sources. The radiological hazards has potential to cause severe injury or environmental contamination unless handled safely. Therefore, the radioactive sources and radiation generators are required to be handled safely throughout their life cycle to prevent any undue risk to health and environment. In view of the above, radiation facilities are required to be regulated for ensuring that the use of ionising radiation does not cause undue risk to health and the environment. The Radiological Safety review and Regulation of such facilities using ionising radiation in India are carried out by Atomic Energy Regulatory Board (AERB). It is a statutory requirement, in accordance with the Atomic Energy (Radiation Protection) Rules, 2004 issued under Atomic Energy Act 1962, to obtain a requisite License from AERB, which is issued after ensuring overall safety in handling of radiation sources.

The growth in the application of ionising radiation technology has posed a tremendous challenge to the AERB for regulating all these facilities to ensure safety and security of radiation facilities effectively and efficiently with the limited resources available with AERB. In order to meet the challenge AERB took initiative of implementing a state of art e-Governance system, eLORA (e-Licensing of Radiation Applications) through automation of regulatory processes associated with the use of ionising radiation in India.

eLORA is a web-based I&CT (Information and Communication Technology) application establishing direct communication channel between AERB and its stakeholders for exchange of information and communication transaction for delivering its regulatory services as well as for achieving higher efficiency, reliability and transparency in dealings. The eLORA system is designed to automate the comprehensive business processes of radiological application regulations targeted to large number of facilities involved in use of ionising radiation as well as radiation workers working with them for safe service. The components of eLORA are chosen to achieve Business Solution with Security, Performance, Availability, Scalability, Manageability and Maintainability. The infrastructure of eLORA system is based on virtualization technology which has helped in achieving cost effectiveness at the investment level and further during operations at the data centre.

The Radiation Protection Committee provides guidance and advice to staff and students on all aspects of work at the institution relating to ionising and non-ionising radiation.

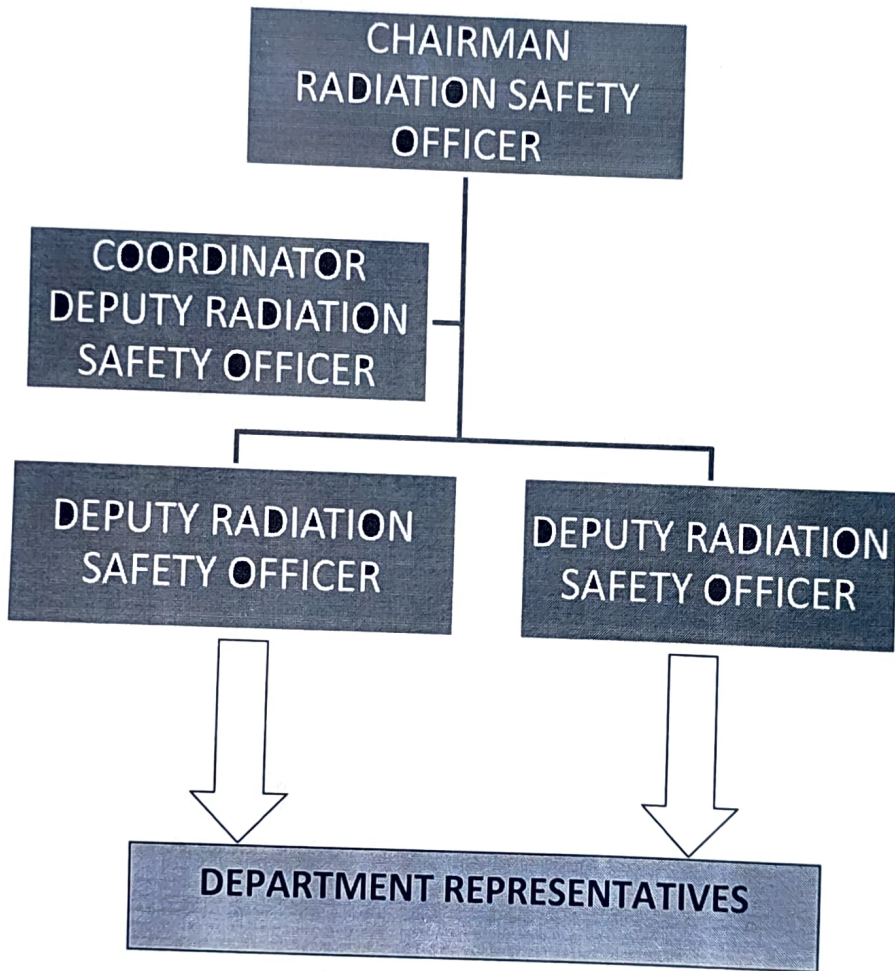
AIMS & OBJECTIVE

The Aim & Objective of the committee is to ensure the use of ionizing radiation does not cause undue risk to the health of people and the environment.

FUNCTIONS

- Develop safety policies in radiation safety areas.
- Develop Safety Codes, Guides and Standards for siting, design, construction, commissioning, operation and decommissioning of different types radiation facilities.
- Ensure compliance of the regulatory requirements prescribed by AERB during all stages of consenting through a system of review and assessment, regulatory inspection and enforcement.
- Prescribe the acceptance limits of radiation exposure to occupational workers and members of the public and approve acceptable limits of environmental releases of radioactive substances.
- Review of the emergency preparedness plans for radiation facilities.
- Review of the training program, qualifications and licensing policies for personnel of radiation facilities and prescribe the syllabi for training of personnel in safety aspects at all levels.
- Take such steps as necessary to keep the public informed on major issues of radiological safety significance.
- Promote research and development efforts in the areas of safety.
- Maintain liaison with statutory bodies in the country as well as abroad regarding safety matters.

ORGANISATIONAL STRUCTURE & COMMITTEE



MEMBERS:

CHAIRMAN & RSO - Dr AMIT MHAPUSKAR

CO-ORDINATOR - Dr DARSHAN HIREMUTT

DEPUTY RSO – Dr DARSHAN HIREMUTT (DEPT OF OMR)

DEPUTY RSO – Dr VAISHALI JOSHI

(DEPT OF PEDIATRIC DENTISTRY, DEPT OF PERIODONTICS, DEPT OF CONS & ENDO, DEPT OF PROSTHODONTICS & DEPT OF PUBLIC HEALTH DENTISTRY)

DEPARTMENT REPRESENTATIVES:

Dr. KRISHNA PATIL – Dept of Pedodontics

Dr. ABHIJIT JADHAV – Dept of Cons & Endo

Dr. ABHIJIT PATIL – Dept. of Prosthodontics

Dr. PRIYA LELE – Dept of Periodontics

Dr. ANJALI GAIKWAD – Dept. of Public Health Dentistry

Dr. PRADNYA KARMARKAR – Student representative (PG Student)

RADIOLOGY TECHNICIANS - Mr. NIRANJAN GHATOLE

- Mr. ABHILASH PATIL



**Dr AMIT MHAPUSKAR
CHAIRMAN**

**Dr DARSHAN HIREMUTT
COORDINATOR**