

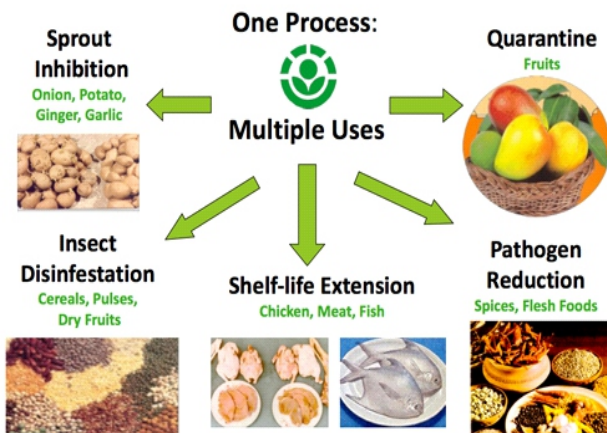
The Nuclear Institute for Food and Agriculture (NIFA), an establishment of Pakistan Atomic Energy Commission, is actively involved in basic and applied research in selected areas of food and agriculture. The institute is well equipped with modern laboratory facilities and trained manpower.

The food and nutrition division of NIFA efficiently utilizing nuclear techniques to enhance the shelf-life of horticultural commodities/food products and value addition of available gemstone resources in KPK.

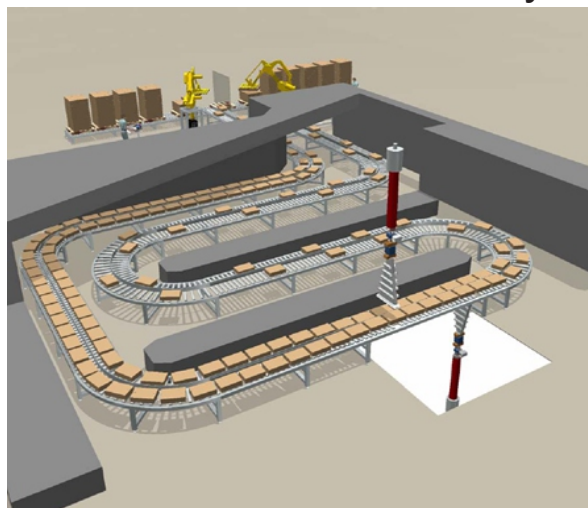
The current workshop is designed to acquaint the participants with theoretical and practical aspects of electron beam and x-ray applications for food irradiation. Apart from lectures in the specialized field, the workshop also provides the participants a practical exposure at NIFA.

The majority of food and agricultural products treated by irradiation are processed in facilities using gamma radiation from cobalt-60 as the source of ionizing radiation. Gamma irradiation is a simple, robust and well-established technology. As cobalt-60 might become more difficult to obtain in the future, it is necessary to have other technologies Like EB/X-rays, during the operation of these facilities it does not generate any waste disposal as it has almost zero harmful effect on environment. The effects of electron beams and X-rays on food are similar to those of gamma irradiation. However, the use of electrical machine sources for food irradiation on a commercial scale has thus far been limited. To stimulate the development of machine sources and to establish the conditions could broaden the choice of technologies to irradiate food. Using electron beams and X-rays to unlock the potential of machine sources for radiation treatment of agricultural and food products.

Electron Beam Food Irradiation



Commercial EB Facility



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Workshop on Application of Electron Beam/X-rays Technology for Value Addition of Food Products & Gemstones

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