



DEVAKI

HYDROMATICS PVT. LTD

WE ARE LICENSED BY THE BOARD OF RADIATION & ISOTOPE TECHNOLOGY (BRIT)

- We have major expertise in the design and manufacturing of gamma radiation plants and radiation equipment.
- We believe that relevance, motivation, dedication, technology, and teamwork lead to a wider perspective.



➤ **Steps for Establishing a Radiation Processing Plant:**

- Conduct cluster analysis to identify the products and quantities for irradiation.
- Choose a site based on regulatory guidelines and perform a geotechnical investigation.
- Prepare architectural, structural, electrical, and mechanical designs, along with the Safety Analysis Report. Submit these to the Atomic Energy Regulatory Board (AERB) for approval.
- Sign a Memorandum of Understanding (MoU) with the Board of Radiation and Isotope Technology (BRIT) for source supply, loading, and commissioning dosimetry.
- Manufacture plant machinery, complete civil work, install equipment, and perform cold commissioning.
- Submit pre-commissioning safety reports to AERB and obtain clearance for source loading.
- Procure the source and manpower, conduct source loading, and perform commissioning dosimetry with BRIT.
- Submit the Final Safety Analysis Report to AERB and receive approval to begin commercial irradiation services.

We believe that the right blend of motivation, determination, technology, and teamwork leads to expanded horizons.

➤ **BENEFITS OF GAMMA IRRADIATION**

- Increased Shelf Life
- Sterilization without Repacking
- Clean, Gas-Free Process
- High Throughput



➤ **USES OF GAMMA RADIATION**

- Sterilization
- Shelf Life Extension
- Insect Disinfection
- Polymer Modification
- Coloration of Gems



➤ CERTIFICATIONS



➤ ABOUT US

DEVAKI HYDROMATICS PVT. LTD. is a dedicated and experienced organization headquartered in Kolkata with a workshop in Howrah. We specialize in gamma radiation, hydraulic and pneumatic systems, industrial automation, tailor-made projects, and maintenance services. Our commitment to product quality and client service has established us as a preferred name in the industry.



➤ WHY DEVAKI HYDROMATICS PVT. LTD.?

- Total Solution Under One Roof
- Best After-Sales Service
- Continuous Client Interaction
- Highly Economical Project Cost
- Full AERB Clearance Support
- Turnkey Project Execution
- Efficient Team for Automation Needs
- Complete Operation & Maintenance Support





Our Work

➤ EXPERIENCE OF OUR LEADER

1. Organic Green Food Ltd., Kolkata (2004)

Designed and commissioned automation systems for a radiation process plant.

2. AV Processors Pvt. Ltd., Mumbai (2005)

Developed and implemented automation systems for a food processing plant.

3. Universal Medicap Ltd., Baroda (2005)

Delivered automation solutions for a pharmaceuticals process plant.

4. Gamma Agro-Medical Pvt. Ltd., Hyderabad (2007)

Engineered automation systems for a food beverage process plant.

5. Synthetic Moulders Ltd., Kolkata (2009)

Commissioned PLC panel for an APG clamping machine.

6. Jhunsons Chemical Pvt. Ltd., Rajasthan (2009)

Managed automation integration for a multi-purpose radiation process plant.

7. Sriram Applied Research Centre, New Delhi (2010)

Upgraded control systems and replaced outdated control panels.

8. Gujarat Agro Industries Corp. (2014)

Oversaw a turnkey project for a complete radiation plant setup.

9. Solas Industries, Mathura (2020)

Designed and commissioned irradiation systems for medical products, pet feed, and dry fruits.

10. Organic Green Foods Ltd. (2023)

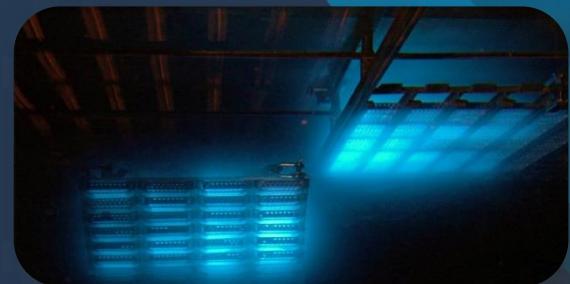
Enhanced productivity with upgraded automation in the Gamma Irradiation Plant.

11. Solstrale India Pvt. Ltd., Roorkee, Uttarakhand

Max. Source Capacity: 3000 Kci

Products: Medical Products, Pet Feed, Dry Fruits

Project Details: Full design, manufacturing, and commissioning of an automated gamma irradiation plant.

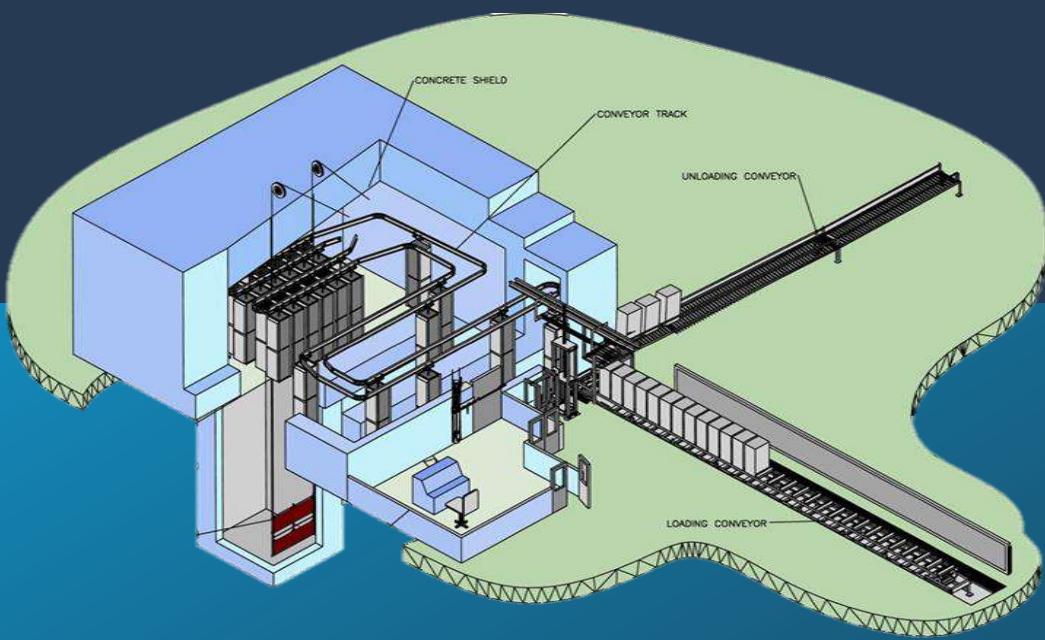


➤ DESIGN SERVICES

We excel in the conception, design, and construction of **Gamma Radiation Plants**. Our turnkey projects deliver world-class standards, ensuring customer satisfaction. **Maximum throughput:** 26 cu-mtr per hour for 25KGy dose, and 24 Ton per hour for low-dose products.



Gamma Radiation Processing Facility



➤ OUR PRODUCTS & SERVICES

- Hydraulic & Pneumatic Systems
- Scissor Lifts
- Electric Control Panels
- Hydraulic Presses
- Material Handling Equipment
- Tailored Products
- Hydraulic Cylinder
- Gearbox Spares & Shafts
- Automation Solutions
- Pneumatic Panel
- Pneumatic Cylinder
- Power Pack

➤ SERVICES WE OFFER

In addition to **Gamma Irradiation**, we provide full technical support at every stage of the sterilization process, from plant development to routine processing. Our team assists clients with validation processes, plant upgrades, and quarterly maintenance.

➤ CONTACT INFORMATION



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