

RRCAT partners with BD India to roll out first batch of sterilised medical devices

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BD exploring benefits for Venflon Pro, for the Indian market and to use the facility for global supplies as well

BD India has partnered with Raja Ramanna Centre for Advanced Technology (RRCAT), a unit of the Department of Atomic Energy, Government of India, for sterilisation of one of its medical devices, Venflon Pro by electron beam (e-beam) technology, at RRCAT's Indore facility.

The e-beam facility is entirely designed and developed by scientists and engineers of RRCAT. It is the only such facility that is approved by regulatory authorities for irradiation of class A and Class B medical devices in India and is also ISO – 13485 certified.

This pivotal partnership is a defining step toward medical device manufacturers realising the benefits of e-beam technology in the country. It also will potentially advance India's local equipment processing infrastructure, thereby enabling the realization of the Prime Minister's vision of *Atmanirbharta*.

Currently, medical device sterilisation is dominated by two technologies – ethylene oxide (EO) gas and gamma radiation – which account for 48% and 41% of the market, respectively. Electron beam has advantages over both these processes in terms of enhanced safety and security and minimal ecological effects.

RRCAT's unique e-beam sterilization technology ensures a cost-effective, scalable, and efficient platform for processing medical devices and pharmaceuticals in India. With this technology, medical devices can be sterilised in their final packing by using the penetrating power of high-energy electrons.