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Indiaâ??s first indigenously designed 4K Helium cryostat for lowering cost of Magnetic Resonance Imaging

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India becomes the sixth nation in the world to indigenously manufacture MRI Magnet System



Vadodara-based Cryogenic Liquid Storage, Distribution and Re-Gas solutions provider, INOXCVA, has achieved a significant milestone by completing the fabrication of India's first indigenously designed zero-boil-off 4K helium cryostat for a whole-body 1.5T Superconducting Magnetic Resonance Imaging (MRI) magnet system.

The fabrication of the MRI cryostat was carried out at their state-of-the-art facilities in Vadodara, Gujarat. The introduction of this technology would lead to lowering of MRI expenses, and therefore making healthcare more affordable in India.

With the significant milestone coinciding with the celebration of *Amritkaal,* commemorating 75 years of independence, the MRI magnet system has been named I-Amrit 1.5, i.e. Indian Advanced MRI Technology 1.5.

The cryostat was indigenously designed by a team of scientists, engineers, and research fellows led by Dr. Soumen Kar, Principle Investigator of Indigenous Magnetic Resonance Imaging (IMRI) project at Inter-University Accelerator Centre (IUAC), New Delhi.