

N.1: Incubation Centre - RRCAT

Department of Atomic Energy (DAE) has a rich resource of more than 170 technologies for transfer and tens of technologies for incubation. Every year, 5 to 10 new technologies for transfer and a few for incubation get added to the list. While in the last one decade, DAE has already transferred the know-how of several of its technologies to more than 300 industries and entrepreneurs for deployment. In order to further enhance translation of the know-how of the technologies to marketable product/process, a need to scale up the effort towards incubation of technologies was felt. This has been the main objective of setting up the Incubation Centres at R&D Centres and Grant-in-Aid institutes of DAE. Four such Incubation Centres, including the one at RRCAT, Indore were inaugurated in online mode on October 30, 2020 by Shri K. N. Vyas, Chairman, Atomic Energy Commission and Secretary, Department of Atomic Energy, on the occasion of the BARC Founder's Day celebration. Other Incubation Centres are located at BARC, Mumbai, IGCAR, Kalpakkam and IPR, Gandhinagar.



Logo of DAE Incubation Centre.

During the inauguration of these Incubation Centres, the above logo with a tagline "परमाणु ऊर्जा का सामर्थ्य, आत्मनिर्भर भारत" was also released. In the logo, the overlapping atomic orbitals symbolize the radiance of multi-disciplinary technologies fostered by DAE shimmering from the top. The circular shape of logo signifies an ever-evolving dynamic continuum of R&D. From left to right, the flag takes the growing form of step icon representing Startup India. The backdrop of tricolor denotes the sense of a self-reliant India. The open palm of the right hand at the bottom symbolizes the DAE's desires to offer technologies and adds a human value to the logo. Outward spreading pattern of circular dots signifies incubation and growth of products and services offered by DAE.

The main objective of Incubation Centres is to foster nucleation, incubation and growth of startups/enterprises based on technologies or available know-how. These can be achieved by supporting and encouraging innovative technology-based start-ups having an application and/or impact in the core sectors of the economy; providing infrastructure and value-added services through prototyping

facilities, test beds, pilot implementation, etc. to Indian industries; and creating a network of mentors who would provide sector-specific knowledge and real-world practical guidance. To fast-track the incubatee selection and incubation process, new policy and guidelines are formulated and approved by DAE.

Shri Debashis Das, Director, RRCAT constituted a Coordination Committee for Incubation Centre (CCIC-RRCAT) to facilitate transfer of technologies from RRCAT to industry through incubation. Shri S.V. Nakhe, Director, Laser Group is the overall in-charge for CCIC-RRCAT, with the other members being Dr. C.P. Paul (Convener), Shri P.K. Agrawal (Co-convener), Dr. H. Krishna (Member), Shri V.K. Dwivedi (Member), Shri Ankit Tiwari (Member) and Dr. Jitendra Kumar (Member-Secretary). Presently, the incubation activities are being operated from a temporary office in the RRCAT Convention Centre. Soon it will be shifted to Multi-Purpose Shed, which is now under renovation.



Incubation Centre at RRCAT Convention Centre.

The thrust areas for Incubation Centre at RRCAT are advanced manufacturing and related technologies such as, use of various types of lasers in manufacturing applications, brazing technologies, precision manufacturing and NEG coating. Incubation Centre-RRCAT will also take up technologies of biomedical systems, fiber sensors, laser-based systems, power electronics for high voltage, high precision power converters, RF systems and microwave components, machine vision-based systems, etc. for incubation.

The webpage of the Incubation Centre-RRCAT has been launched on RRCAT website. It is presently listing the technologies available for incubation and developed at RRCAT. Technologies available for value addition along with the services/facilities being offered are also listed. The technology of liquid nitrogen based transportable refrigeration system -Sheetal Vahak Yantra (SHIVAY) - was advertised on the website for participation of the potential incubates. The selection process of incubatees is under progress. For more details, please visit:

<https://www.rrcat.gov.in/organization/cat/incubation.html>

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