

## DBT-BIRAC unveils high performance biomanufacturing platforms

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**Under the BioE3 Policy, 21 Bioenablers will drive advanced biomanufacturing, reduce reliance on imports**



The Department of Biotechnology (DBT), Government of India, and the Biotechnology Industry Research Assistance Council (BIRAC) have announced the launch of India's first Biofoundry Network, a landmark initiative aimed at transforming the country's biotechnology landscape and achieving a \$300 billion bioeconomy by 2030.

Rolled out under the BioE3 Policy (**B**iototechnology for **E**nvironment, **E**conomy & **E**mployment), the network will serve as a national platform to accelerate advanced biomanufacturing.

The initiative brings together 21 cutting-edge bio-enabler facilities across India, offering shared infrastructure to start-ups, SMEs, industries, and academic institutions. These centers will support pilot and pre-commercial scale technologies across diverse sectors, including microbial biomanufacturing, sustainable agriculture, smart proteins, functional foods, precision biotherapeutics, marine biotechnology, carbon capture, and next-generation cell and gene therapies.

Following are the Bio-foundries and Biomanufacturing hubs to be established by industries, incubators and academia-industry collaborations-

- Foundation for Science Innovation and Development (FSID), Bengaluru (with Tata Chemicals Limited ) is establishing pilot scale facility (100 L) to scale up specialty chemicals and enzymes
- Immunoadoptive Cell Therapy Private Limited, Mumbai is setting up GMP grade facility for gene delivery vector

- Hi Tech Biosciences India Ltd, Pune is setting up fermentation facility (10 KL) to produce drug intermediates
- Embio Ltd, Mumbai is coming up with pilot scale and large scale fermenters
- Laurus Bio, Visakhapatnam is establishing fermentation facility for functional foods
- Virchow Biotech Private Limited, Hyderabad is setting up state of the art facility for commercial production of mAbs and enzymes
- Agilent Bioplus LLP is setting up a plant to scale up the production of gluconates
- Revelations Biotech Pvt Ltd, Hyderabad is setting up QMS compliant facility for commercial production of Fructo-oligo saccharides
- HiMedia Laboratories, Mumbai is planning a fermentation facility at 1 KL scale for food based products
- Sundyota Numandis Probiocentials Private Limited, Ahmedabad is setting up QMS compliant facility for commercial production of probiotics
- IIT-Madras (with TICEL Bio Park Ltd, Chennai) is setting up Facility to support development and scale up of products used in pharma & cosmetics
- Jindal Steel, Angul is setting up facility for sequestration of CO<sub>2</sub>
- KIIT Technology Business Incubator, Bhubaneswar is planning a dedicated facility for marine biotech products.
- Nation's First Animal Stem Cell repository is going to be set up by National institute of Animal Biotechnology (NIAB), Hyderabad with HiMedia Laboratories, Mumbai.
- Genova Biopharmaceuticals Limited, Pune is establishing a biomanufacturing hub for mRNA-based precision medicine.

The facilities range from biofoundries working on microbial strains, smart proteins, probiotics, and bio-based chemicals to biomanufacturing hubs developing next-generation cell therapies, mRNA-based medicines, marine bio-innovations, and sustainable biofuels. Collectively, these will act as **bio-enablers of innovation and commercialisation**, unlocking new opportunities for industry and academia alike.