

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

RAJYA SABHA
UNSTARRED QUESTION NO. 458
ANSWERED ON 28/11/2024

“Launch of BioE3 Policy”

458: Shri Subhash Barala:
Shri Baburam Nishad:

Will the Minister of **SCIENCE and TECHNOLOGY** be pleased to state:

- (a) the aims and objectives of the BioE3 Policy and whether it would assist in promoting high-performance bio-manufacturing;
- (b) the details of national initiatives of Government in line with the BioE3 Policy; and
- (c) the details of achievements of bio-economy in the last five years?

ANSWER

MINISTER OF STATE (INDEPENDENT CHARGE) FOR THE MINISTRY OF SCIENCE
AND TECHNOLOGY & EARTH SCIENCES
(DR. JITENDRA SINGH)

- (a) The objective of the BioE3 Policy is to set forth a framework that ensures the adoption of cutting-edge advanced technologies, and aligning innovative research for promoting Biomanufacturing. The BioE3 Policy outlines guidelines and principles for enabling mechanisms for ‘*Fostering High Performance Biomanufacturing*’ in the country across diverse sectors. The Policy aims at revolutionizing biomanufacturing process for enhanced efficiency, sustainability, and quality while also accelerating the development and production of bio-based high-value products.
- (b) The BioE3 Policy is aligned with India’s vision of Green Growth (announced in the Union Budget 2023-2024) and also with the clarion call of the Hon’ble Prime Minister on ‘*Lifestyle for Environment (LiEF)*’ that envisions collective approach towards sustainability. The policy also aligns with the Hon’ble Prime Ministers vision of ‘*Net-Zero*’ carbon economy of the country. Further, the Biomanufacturing and Biofoundry initiative has been announced as a scheme during Government’s Interim Budget for 2024-25.

- (c) Highlights of achievements of India Bioeconomy over the last five years are as follows:
- As in December 2023, Bioeconomy contributes 4.25% to India's Gross Domestic Product (GDP) of \$3.55 trillion. This has gradually increased from 3% in 2018 to 4.25% in 2023.
 - Indian Bioeconomy has grown from \$55 billion in 2018 to \$151 billion in 2023, achieving this target two years ahead of projections for 2025.
 - Number of Biotech Startups have grown from 2662 Startups in 2018 to 8,531 Startups in 2023.
