GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY LOK SABHA ADMITTED/UNSTARRED QUESTION NO. 251 TO BE ANSWERED ON 27/11/2024 "BioE3 Policy in Biotechnology"

251: Shri Captain Brijesh Chowta:

Shri Shankar Lalwani:

Shri Ganesh Singh:

Shri Yogender Chandolia:

Smt. Smita Uday Wagh:

Smt. Aparajita Sarangi:

Shri Jagdambika Pal:

Will the Minister of SCIENCE & TECHNOLOGY

विज्ञान और प्रौद्योगिकी मंत्री

be pleased to state:

(a) the aims and objectives of the BioE3 policy and whether it will be instrumental in fostering high-performance bio-manufacturing;

(b) the details of national initiatives aligned with the BioE3 policy;

(c) the details of achievements of bio economy during the last ten years;

(d) whether the Government has the list of Bio-manufacturing and Bio-AI hubs that are planned to be set up in Karnataka as a whole and Dakshina Kannada in particular and if so, the details thereof; and

(e) the process for identification of districts to set up the Bio-manufacturing & Bio-AI hubs ?

ANSWER

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

विज्ञान और प्रौद्योगिकी तथा पृथ्वी विज्ञान मंत्रालय के राज्य मंत्री (स्वतंत्र प्रभार) (डॉ. जितेन्द्र सिंह)

- (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 2023-24) and also with the clarion call of the Hon'ble Prime Minister on 'Lifestyle for Environment (LiFE)' 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 ten years are as follows:

- As in December 2023, Bioeconomy contributes 4.25% to India's Gross Domestic Product (GDP) of \$3.55 trillion
- Indian Bioeconomy has grown from \$10 billion in 2014 to \$151 billion in 2023, achieving this target two years ahead of projections for 2025.
- Number of Biotech Startups have grown from 50 Biotech Startups in 2014 to 8,531 Biotech Startups in 2023.
- (d) and (e) DBT-BIRAC have issued a joint call to invite proposals for setting up of "*其तांकुर* BioEnablers Biofoundries and Biomanufacturing Hubs" in the country. All the proposals received are under evaluation.