BRIC a DBT Organization | IBSD promoting bioresources

RAMAKRISHNA MISSION

Painting Competition

For School & College Students

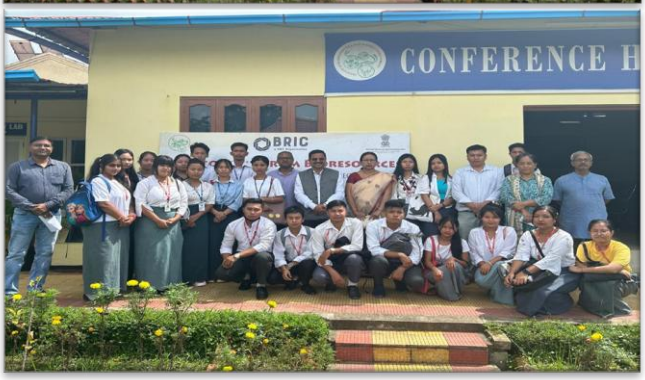
Theme:

BioE3 Policy : Biotechnology for Economy, Environment and Employment

The BioE3 Policy (Biotechnology for Economy, Environment and Employment) approved by the Union Cabinet will foster high performance bio-manufacturing mainly focussed strengthening science & technology innovation ecosystem, technology development, employment & entrepreneurial, promoting sustainability and bioeconomy.

The policy will further strengthen Green Growth, Net Zero economy and Lifestyle for the Environment by promoting 'Circular Bioeconomy'.

This will provide a framework for research and intensify innovation, boosting domestic bio-manufacturing, promoting integrated use of artificial intelligence (AI), setting up facilities (Bio-manufacturing Hubs / Bio-foundry /Bio-AIs) for scaling-up, pre-commercial manufacturing and nurturing cohort of highly skilled workforce.



Biotechnology for Economy, Environment and Employment (BioE3) Policy is a great landmark initiative of DBT: Director BRIC-IBSD

BISWADEEP GUPTA

Prof. Pulok Kumar Mukherjee

IMPHAL: Prof. Pulok Kumar Mukherjee, Director, BRIC-Institute of Bioresources and Sustainable Development (Department of Biotechnology, Ministry of Science & Technology, Govt. of India) having its operations in the state of Manipur, Sikkim, Mizoram, Meghalaya informed that the Union Cabinet has approved the proposal of Department of Biotechnology (DBT) for 'BioE3 (Biotechnology for Economy, Environment and Employment) Policy for Fostering High-Performance Biomanufacturing & Bio-AI hubs and Biofoundry, he believes. Along with prioritizing regenerative bioeconomy models of green growth, this policy will facilitate the expansion of India's skilled workforce and provide a surge in job creation.

Overall, this Policy will further strengthen the Government's initiatives such as a 'Net Zero' carbon economy & 'Lifestyle for Environment' and will steer India on the path of accelerated 'Green Growth' by promoting a 'Circular Bioeconomy'. The BioE3 Policy will foster and advance a future that is more sustainable, innovative and circular practices to address some of the critical societal issues such as climate change mitigation, food security and human health. Building a resilient biomanufacturing ecosystem in our nation is important bio-based products through the integration of advanced biotechnological processes. To address the national priorities, the BioE3 Policy would broadly focus on the following strategic/thematic sectors: high-value bio-based chemicals, biopolymers & enzymes; smart proteins & functional foods; precision biotherapeutics; climate resilient agriculture; carbon capture & its utilization; marine and space research. Institute of Bioresources and Sustainable Development (IBSD) is the only institute in the North Eastern Region of India (NER) in the ambit of the Biotechnology

The Policy will make significant contributions to the 'Make in India' initiative by fostering the development of bio-based products with minimal carbon footprints and laying down the Bio-vision for Viksit Bharat.

- Participants need to make a sketch & draw on the given theme.
- Each individual shall submit only one piece of painting and the painting should be his/her original concept based on the following ideas:
  - Biotechnology enable economic growth.
  - Biotechnology save the environment.
  - Biotechnology bring employment opportunities.
- Painting should be on A3 size drawing paper with 1cm external border.
- Each painting should be submitted with name, school and Class to Sr. Administrative Officer, BRIC-IBSD, Imphal on or before 20th October, 2024.
- There is no fees for participation.
- Eligible from Class-X onwards

A. LAST DATE: **20.10.2024**
B. HARDCOPY TO BE SUBMITTED TO BRIC-IBSD IMPHAL
C. BEST PAINTINGS WILL BE AWARDED ALONG WITH CONSOLATION PRIZES

AWARD CEREMONY ON 24.10.24



The BioE3 Policy will add substantial contributions to the 'Make in India' initiative by fostering the development of bio-based products with minimal carbon foot- prints and lays down the Biovision for Viksit Bharat. This policy will encourage collaborative research and active engagement with potential partners & stakeholders to synergies ongoing investments in bio-manufacturing hubs and different startups. This will enable growth of an economically and environmentally sustainable bioeconomy and contribute for making Bharat self-reliant.

Globally, there is growing demand for bio-therapeutics and nutritional foods which can be harnessed from resources like plants, algae, fungi, insects and new approaches like fermentation, plant-based products etc. This policy will facilitate production of smart proteins and functional foods with low carbon footprints using synthetic biology and metabolic engineering tools. This policy will play a vital role in establishing Bio-AI hubs by integrating AI to analysis large-scale biological data encouraging the development of bio-based products and expanding job creation.

INSTITUTE OF BIORESOURCES AND SUSTAINABLE DEVELOPMENT (IBSD)

AN AUTONOMOUS INSTITUTE OF THE DEPARTMENT OF BIOTECHNOLOGY (DBT), MINISTRY OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA