

Biofertilizer for Yield Enhancement in Normal to Water Stress Conditions for Entrepreneurship Development

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Under the project sponsored by **Department of Biotechnology (DBT)**, Ministry of Science & Technology, Government of India, New Delhi, decentralized bioreactor facilities (600 L capacity) were established across North East India for the production of OP-12 Biofertilizer. This initiative fostered regional self-reliance strengthened local production capabilities, and improved access to sustainable agricultural inputs for farming communities to the region.

Project Duration: March 30, 2021 – September 29, 2024

Principal Investigator: Dr. Ratul Saikia

Project Co-PI/ Team: Dr. Dipankar Neog, Er. Jayanta J. Bora and others

State-wise Installations

The project successfully established bioreactor facilities across the North Eastern states and imparted hands-on training in the production and application of OP-12 biofertilizer. Awareness programs were also organized to facilitate its wide adoption. A chronological account of the deployments is presented below.

State	Organization & Installation Venue	Deployment & Training Dates
Manipur	CSIR-NEIST Branch Laboratory, Lamphelpat, Imphal	April 4, 2023
Meghalaya	State Institute of Rural Development (SIRD), Nongsder, Ri Bhoi	May 15 – 16, 2023
Arunachal Pradesh	CSIR-NEIST Branch Laboratory, Naharlagun, Itanagar	June 5 – 6, 2023
Assam	Organic Krishi Sewa Gut (Farmer Cluster), Ghilamara, Lakhimpur	June 7 – 8, 2023
Nagaland	State Institute of Rural Development (SIRD), Kohima	October 10 – 11, 2023
Sikkim	State Institute of Rural Development & Panchayati Raj (SIRD&PR), Jorethang	November 21 – 22, 2023
Tripura	Department of Forestry & Biodiversity, Tripura University, Agartala	December 14 – 15, 2023

Site-wise Summary of OP-12 Biofertilizer Production, Application Training, Awareness, and Distribution Programmes-

1. Meghalaya Node (SIRD, Nongsder, Ri Bhoi District)



2. Arunachal Pradesh Node (CSIR-NEIST Branch Laboratory, Itanagar)



3. Assam Node (Organic Krishi Sewa Gut, Ghilamara, Lakhimpur)



4. Nagaland Node (SIRD, Kohima)



5. Sikkim Node (SIRD&PR, Karfectar, Jorethang)



6. Tripura Node (Dept. of Forestry & Biodiversity, Tripura University, Agartala)



7. Manipur Node (CSIR-NEIST's Branch Laboratory, Imphal)

