



BIOFERTILIZERS 4 BETTER LIFE

Make a plant in a natural way for a better life tomorrow!
Be health conscious by eating leafy vegetables!

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Team Members

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WHAT CHALLENGE DOES YOUR PROJECT ADDRESS?

We are consuming locally grown rice, pulses and vegetables. The farmers in our community are using excessive chemicals because they want to ensure germs are killed and to get a good yield. Even though it is a good yield now it is not good for our future. We believe that growing plants in a natural way for a better life tomorrow. Biofertilizers are a sustainable alternative to chemical fertilizers that pose significant environmental challenges, such as soil degradation, water pollution, and air contamination. The primary challenge biofertilizers address is reducing dependence on synthetic fertilizers and promoting environmentally friendly agricultural practices.



Image source [types of biofertilizers](#)

WHY DID THE TEAM SELECT THIS TOPIC?

During brainstorming we talked about why some of our team members are missing school due to seasonal allergies and frequent fevers. Also, we learned our facilitator is suffering from body weakness. During medical visits, the Doctor recommended to avoid food that is grown with excessive pesticide usage and chemical fertilizers.

The excessive use of the chemical fertilizers can be harmful for soil and humus content in the soil. The chemical fertilizers can harm the environment and human health as well. Because this affects so many people in our local community, we felt obligated to tackle this problem.



Our Team brainstorming!

HOW IS THIS A REAL-WORLD PROBLEM OR CONCERN?

The excessive use of chemical fertilizers in agriculture contributes to soil degradation, water contamination, and greenhouse gas emissions. Biofertilizers offer a solution to mitigate these issues and promote sustainable farming practices.

Our team wants to bring an awareness among the local farmers in our society to reduce the use of synthetic chemical fertilizers for growing crops.

DESCRIBE LEARNING FROM INTERVIEWS

Through interviews with farmers and agricultural experts, we discovered that many farmers are unaware of the benefits of biofertilizers and are hesitant to switch from chemical fertilizers due to lack of information and availability.



Team member's father working in the field

WHICH RESEARCH DATA OBTAINED HELPED TO DETERMINE WHAT CAN BE DONE?

Our team online research, led to talking to facilitators cousin who is AgriNurtur Solutions who provides expert consultancy services and lab setup as per FCO standards ([AgriNurtur Solutions](#)), where they are practicing rooftop farming with organic fillers and biofertilizers. We learned that the AgriNurtur practices significantly improves soil health and crop yields, this emphasized the need for awareness campaigns to promote use of biofertilizers in our community.

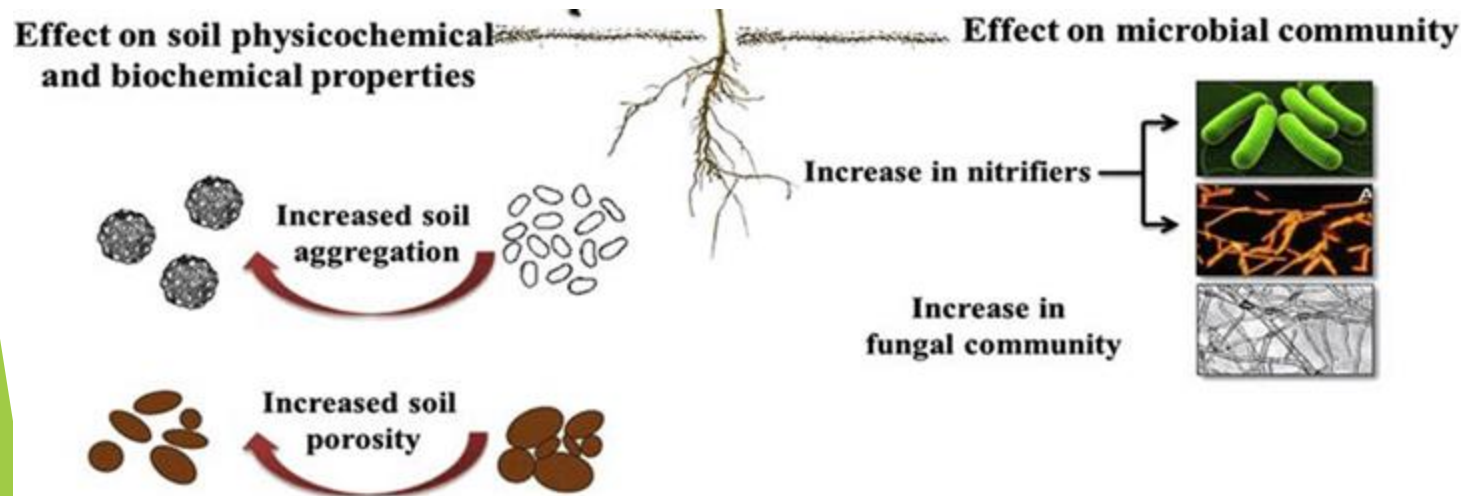


Image source [Research paper - Role-of-biofertilizers-on-physiological-and-biochemical-properties-of-soil](#)

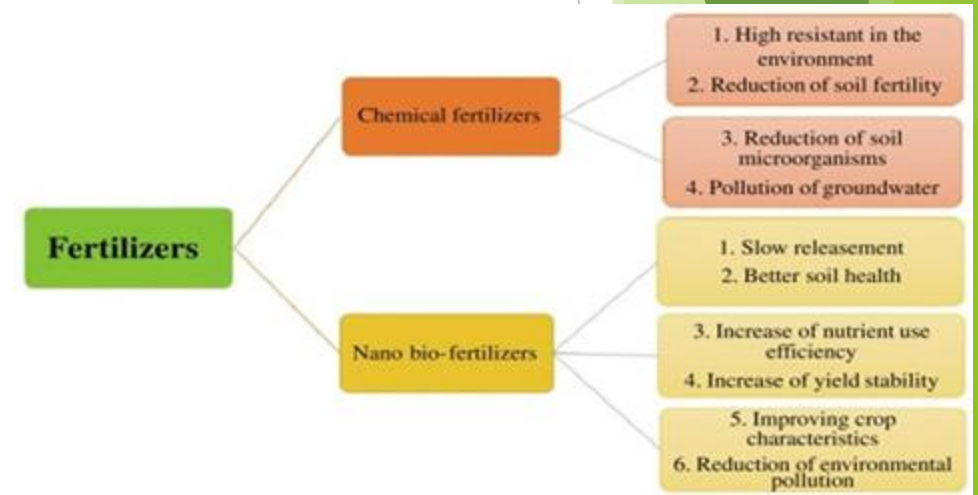


Image source: [research publication about Nano-biofertilizers for enhanced nutrient use efficiency](#)

HOW DID THE INFORMATION YOU LEARNED INSPIRE YOU TO ACT IN AN IMPACTFUL WAY?

The information we learned from our research and interviews inspired us to launch a community awareness campaign and collaborate with local farmers to demonstrate the effectiveness of biofertilizers in improving crop yield and soil health.

This was especially impactful to the parents of one of our team members who is a farmer. He wanted to ensure a healthy future for his own family as well as the local community and switched to using biofertilizers and herbicides.

HOW DID YOUR TEAM INFLUENCE OTHERS?

Our team talked to parents and relatives in the farming community and influenced them by raising awareness about the environmental and health impacts of using chemical fertilizers. Through outreach programs, we educated farmers, schoolteachers, and community members on the benefits of biofertilizers and sustainable agriculture.

Immediately one parent converted to using biofertilizers with the recommended portions of herbicide on the plants. The community's response to our project has been positive. Many farmers have expressed interest in adopting biofertilizers, and teachers are incorporating the importance of sustainable agriculture into their curriculum.



Nourishing the soil, nurturing growth.

Rich in nutrients, rich in results.

Fertilizing the future, one crop at the same time.



HOW ARE YOU PLANNING FOR PERMANENT CHANGE?

We are planning to create educational resources, hold workshops, and collaborate with agricultural bodies such as AgriNurtur to ensure the long-term adoption of biofertilizers.

We aim to give farmers access to biofertilizer products and relevant information.

Fertilizer success!
Our plants are thriving.
Growing strong and
healthy.
From seed to bloom.



Pictures of Mango tree, bottle gourd grown by facilitator's cousin and his friends with using natural fertilizers in AgriNeutral lab

OUR TEAM



PHOTOS OF TEAM MEMBERS DURING INVESTIGATION



WE APPRECIATE YOUR TIME & THOUGHTS

You ARE MAKING A DIFFERENCE IN OUR FARMING
COMMUNITY

Biofertilizers 4 Better Life

[VideoLink1: Good Bottlegourd yield in the field](#)

[VideoLink2: Rooftop organic farming in action](#)

[VideoLink3: Drone herbicide spreading in the paddy field](#)

[VideoLink4: Drone usage in the farm](#)



Healthy, tasty, bountiful bottlegourd!

THANK YOU