



ECHO: FINAL IMPACT REPORT

COLLEGE NAME: City College, 102/1 Raja Rammohan Sarani, Kolkata – 700 009

STATE: West Bengal

NAME OF TEACHER CONVENOR : Dr Debasish Karmakar

REPORTING PERSON: Ambar Dey

1. Key issue addressed



Tell us about which environmental issue did you target to address? Why did you select this environmental issue?

: Our ongoing ECO project is about bio-fertilizer. Here our main goal is to reduce the usage of chemical fertilizer, and replace it with our bio-fertilizer. So, here we are mainly addressing the environmental issues caused by chemical fertilizer.

Some major environmental issues caused by chemical fertilizers:

- Soil pollution, by reducing the soil fertility due to excess use.*
- Chemical fertilizers contain phosphates, nitrates and it is the main cause of Eutrophication.*
- When chemical fertilizer is too much applied, it causes air pollution by nitrogen oxides (NO, N₂O, NO₂) emissions.*

2. Project Background and Description



How is your approach/idea to address the environmental issue unique and distinct? Explain briefly

: Our aim is to spread awareness mainly to our customers, the farmers about the environmental issues caused by chemical fertilizer. We already talked to some local farmers and the response we get is quite positive. Majority of them prefer the bio-fertilizer and aware to some extent about the harmfulness of chemical fertilizer. We are also looking forward to spread awareness through the social media.





3. Targeted SDGs

i Tick the SDGs that were addressed in your project

SDG 1 – No Poverty	Tick Here	SDG 10 – Reduced Inequalities	Tick Here
<input type="checkbox"/> SGD 2 – Zero Hunger		SGD 11- Sustainable cities & communities	
<input type="checkbox"/> SGD 3 – Good Health & Well-being		<input type="checkbox"/> SGD 12 – Responsible consumption & Production	
SGD 4 – Quality Education		<input type="checkbox"/> SDG 13 – Climate Action	
SGD 5 – Gender Equality		SGD 14 – Life below water	
SGD 6 – Clean Water & Sanitization		SGD 15 – Life on Land	
SGD 7 – Affordable & Clean Energy		SDG 16 – Peace, Justice & Strong institutions	
SGD 8 – Decent Work & Economic Growth		SGD 17 – Partnerships for the Goals	
SGD 9 – Industry, Innovation& Infrastructure			

4. How are you planning to sustain your project activities?

i We are planning to further interact with farmers of different areas to get an idea of pesticides and other fertilizers used by them and about the efficiency ,so that we can tally our product , the organic bio-fertilizer, with other similar market products and accordingly customize it for the best benefit of the farmers along with the environment and we will increase our productivity accordingly.





5. What all resources will you need to sustain your project activities?

i *We will be needing more man power and also fundings to continue with the making of the product . As it is a time consuming process and team work we will also be needing some handy equipments for faster Improvement.*

6. If given an opportunity to replicate your project in a different location, where all can your project be replicated?

i *We think it best can be replicated to the different rural areas of our state, where agriculture and farming are prime occupations , as such areas will help us to understand the demand of our product and also the problems faced for using other such products. It will help us understand the procedure and accordingly we can work with it.*

7. What resources will you need to replicate your project?

i *Equipments ,
More man power ,
Fundings
Help from the local community of the replicated area and Specialised areas to test our product values*

8. Describe the impact created by your Echo project in terms of social, economic and environmental impact

i *SOCIAL IMPACT : It will help more students like us to build an alternate career oppurtunity and also increase our knowledge in different aspects communicating with different , understanding the different problems and gather experiences.*

ENVIRONMENTAL IMPACT : The product made by us ,i.e. the organic bio-fertilizer will be devoid of any chemical components which could harm the crops and it is purely made from biodegradable products which are also eco- friendly and do not cause any kind of soil pollution.

ECONOMIC IMPACT : We are planning to manufacture our products with minimal costs, if possible, which will also allow us to sell it for a very reasonable price and could be easily afforded by the





economically weaker small scale farmers and help them with a low cost useful product .

9. Outcomes/Expected outcomes



Briefly list down the significant outcomes of your project?

The expected outcomes of our project is the efficiency of the product we are making , until now it is somewhat useful for some of the basic crops which are consumed in a daily basis and also for both flowering and non – flowering plants as per our sources who have already used it and from some personal experiences also.

10. Share high-resolution photographs in this folder:

https://drive.google.com/drive/folders/1jxcZSr74wJngHdTGEjcgVVGspO_KYlec?usp=sharing

TEAM DETAILS

Mention the core team details

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