



BASIC DETAILS OF THE TEAM and PROBLEM STATEMENT

Ministry/Organization Name/Student Innovation: *Ministry of fisheries, animal husbandry and dairying.*

PS Code: SIH1499

Problem Statement Title: GREEN OPTIONS FOR MILK PACKING.

Team Name: Down to Earth

Team Leader Name: Lavudya Harsha Vardhan

Institute Code (AISHE): C-19615

Institute Name: JB Institute of Engineering and Technology

Theme Name: Bio-Degradable Packaging

Idea/Approach details

DESCRIBE YOUR IDEA/SOLUTION/PROTOTYPE HERE:

WRITE TO US Our Idea is to replace plastic used in milk packaging.

WRITE TO US To replace this plastic we are using a seaweed based bio-plastic.

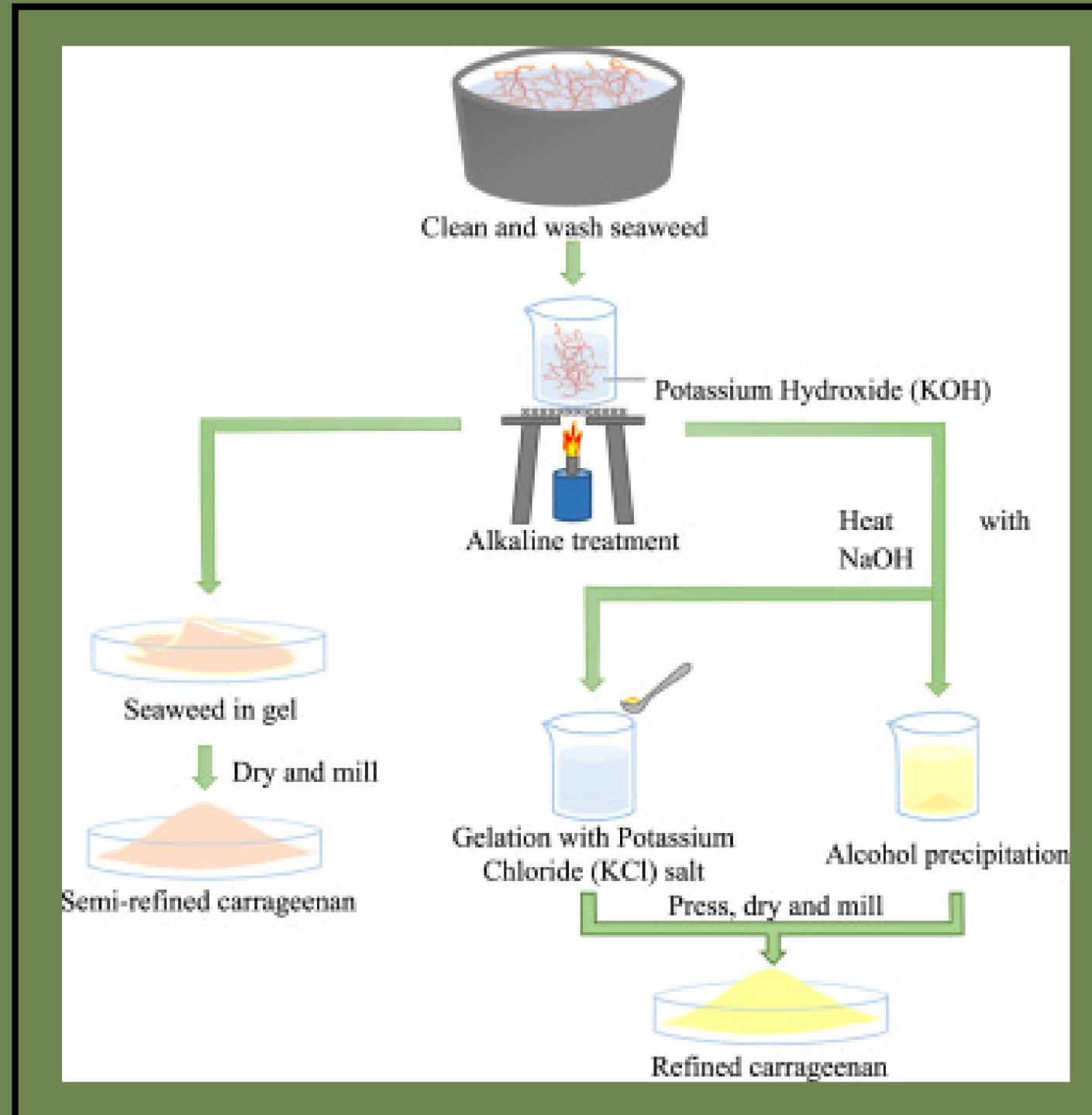
WRITE TO US Seaweed has unique properties which make them ideal candidates to produce bioplastic packaging for medicine and food.

WRITE TO US The antioxidant and antimicrobial properties of seaweed-derived bioactive compounds will also improve the maintenance and shelf-life of food and medicines.



Idea/Approach details

Preparation:



Describe your Dependencies / Show stopper here:

1. Bioplastic made from raw seaweeds and green production methods has the potential to improve the bioplastic market and contribute to the bioeconomy.
2. The packaging is completely biodegradable and the food that it contains stays fresh longer.
3. The milk packed in the seaweed packaging stays fresh longer than it does in plastic packaging. So food does not need to be thrown away anymore.
4. The seaweed packaging is edible so it can be used for cattle feed.
5. You can also throw it on the compost and, should it end up in the environment or the sea, it will biodegrade within a few weeks.
6. Growing quickly, around 30 to 60 times faster compared to land-based plants, the process of growing algae acts as a carbon sink.

Team Member Details

Team Leader Name: Lavudya Harsha Vardhan

Btech - EEE - II Year

Team Member 1: M Pruthvik Reddy

Btech - EEE - II Year

Team Member 2 : S Ganesh Kumar

Btech - EEE - II Year

Team Member 3: Saroola Rishi

Btech - EEE - II Year

Team Member 4: Jangala Usha Rani

Btech - EEE - II Year

Team Member 5: Gade Neha Reddy

Btech - EEE - II Year