



We are students from the Hyderabad Institute of Technology and Management. All of us are passionate about developing eco-friendly and sustainable solutions for various existing problems.

TEAM MEMBERS



PAVAN K...
PABBA

Administrator



SIVA PRA...
KOWDODI

Administrator



ALANKAR
ACHADIAN

Member



GIRIDHAR
BITTU

Member



YUVARAJ
GAJALA...

Member

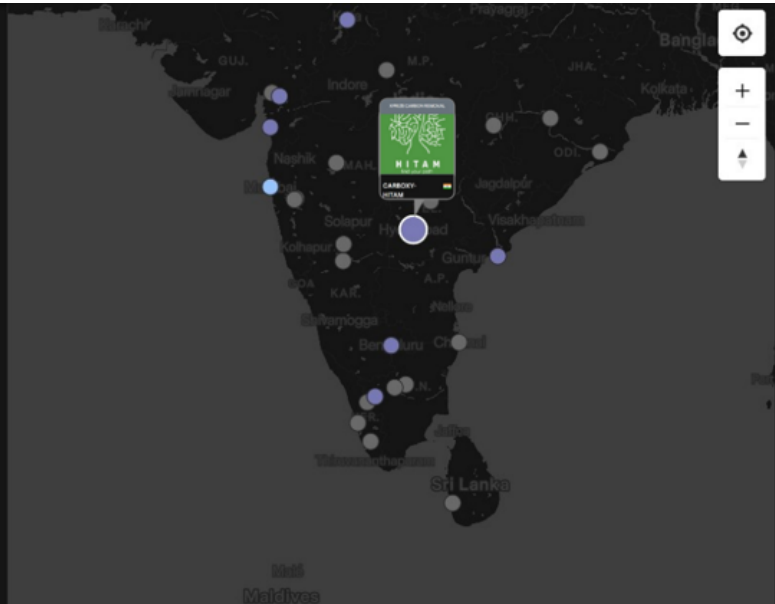
**CARBOXY-
HITAM**
Hyderabad, Telangana, India

PROJECT SOLUTION
Ocean Solution

TOP ACHIEVEMENT
QUALIFIED COMPETITOR

ABOUT THE TEAM

Thirty percent of CO₂ produced on land is absorbed by the ocean via natural pumps caused by the thermal cycle between the ocean and the land surface in different weather conditions. To neutralise the PH of the ocean, algae, phytoplankton, and other micro plants have been using dissolved carbon dioxide from the sea water. In a similar spirit, Spirulina algae, a micro plants is utilized in a photobioreactor to convert carbon dioxide into oxygen using artificial photosynthesis and fish excreta as nutrients. Spirulina algal biomass, which is rich in carbohydrates, lipids, and protein, can be utilised as a fish feed. A biological loop is constructed between fish and spirulina algae in this study to reduce direct carbon emissions caused by burning fuel for electricity or food.



**XPRIZE
CARBON
REMOVAL**

MUSK FOUNDATION