

VHIS

TEAM MEMBERS:

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CONSERVATION OF SEA CREATURES



WHAT CHALLENGES DOES OUR PROJECT ADDRESS?

1. Pollution and Waste Management – Plastic waste, oil spills, and chemical runoff from industries and agriculture severely impact marine life, causing habitat destruction and health issues for sea creatures.
2. Overfishing and Illegal Fishing – Unsustainable fishing practices, including bycatch and bottom trawling, deplete fish populations and disrupt the marine food chain.
3. Climate Change and Ocean Acidification – Rising sea temperatures, coral bleaching, and increasing ocean acidity threaten marine ecosystems, affecting biodiversity and fish stocks.
4. Lack of Awareness and Enforcement – Weak regulations, poor enforcement of marine protection laws, and limited public awareness hinder conservation efforts, making it difficult to implement long-term solutions.

INVESTIGATION MADE BY US :



Our team visited a nearest lake and then interviewed the fisherman, where we learned about the current effects on sea creatures.

WHY DID THE TEAM SELECT THIS TOPIC ?

Our team discussed many problems in their community but because of the increasing global focus on marine conservation. With issues like ocean pollution, climate change, and endangered species, we feel motivated to contribute to protecting marine life.

1. Lack of Awareness and Engagement – Many people don't fully understand how their daily actions impact marine life, making it difficult to raise awareness and drive change.
2. Finding Practical Solutions – While the problems are well-known, developing realistic and effective conservation strategies that people can adopt in daily life is challenging.
3. Unique and Engaging Research Opportunities – Sea creatures offer fascinating research topics, from their adaptations and ecosystems to their role in maintaining biodiversity. Unlike common land-based projects, marine studies provide a unique perspective, making them more appealing and impactful.

HOW IS THIS A REAL WORLD PROBLEM OR CONCERN ?

1. Food and Livelihoods – Many communities depend on marine life for food and income, including fishing and seafood industries. Overfishing and pollution directly impact these resources.
2. Unregulated human activities, such as waste disposal, excessive fishing, and construction near lakes, degrade water quality and harm aquatic life. These actions disrupt the natural ecosystem, leading to loss of biodiversity and reduced fish populations. The local community must adopt sustainable practices to protect their water resources for future generations.

Describe Learning from interviews :

Based on our interviews with our school principal, staff members, and local marine industry people, we gathered valuable insights about the impact of human activities on sea creatures.

1. Principal and School Staff's Perspective – They emphasized the importance of educating students about marine conservation, highlighting pollution, climate change, and overfishing as major threats to sea creatures.
2. Fishermen's Concerns – Local fishermen reported a decline in fish populations due to overfishing and pollution. They also mentioned struggles with marine waste, which damages their fishing nets and affects their daily catch.
3. Marine Industry Insights – Industry professionals from Karnataka Marine Association pointed out the increasing need for sustainable fishing practices and stricter regulations to protect marine biodiversity. They also discussed how climate change is impacting fish migration patterns.
4. Community Observations – Nearby residents and coastal workers mentioned the visible effects of pollution, such as dead fish washing ashore and coral reef degradation. They expressed the need for stronger awareness campaigns and conservation efforts.
5. We learned about how to overcome this problem through day to day basis steps in organised system.
6. We also collected informative ideas from regional viewers on sea creatures.

Team Members involved in interviews of faculty about the impact of overfishing in our community.



Which research data obtained helped to determine what can be done ?

1. Ocean Biodiversity Information System (OBIS): A global open-access data repository on marine biodiversity, offering extensive datasets on species distribution and abundance.
 2. World Register of Marine Species (WoRMS): A comprehensive database aiming to document all marine species, providing taxonomic information and species checklists.
 3. NOAA Fisheries – Marine Mammal Population Assessments: Offers detailed reports on the population sizes, geographic ranges, and trends of marine mammals in U.S. waters.
 4. NOAA National Marine Ecosystem Status: Provides snapshots of major marine ecosystem indicators, capturing the status and trends across U.S. ecosystem regions.
 5. Ocean Census: Aims to accelerate the discovery and protection of ocean species, addressing the vast number of marine species yet to be described.
- These resources offer comprehensive data and insights essential for understanding marine biodiversity and ecosystem health.

How did the information you learned to act in an impactful way ?

The information collected from the people and the incidents we have in our neighborhood locations made an impact on us to organize clean-up drives, awareness campaigns, workshops and exhibitions.



TEAM MEMBERS INVOLVED IN IMPLEMENTATION

How are you planning for permanent change ?

1. Educational Workshops & Talks

Organize sessions with marine biologists or environmentalists to educate villagers on the importance of sea creatures.

Use simple language and visuals to explain how pollution and overfishing harm marine life.

2. Skit Performances & Street Plays

Perform short plays depicting the impact of human actions on sea creatures.

Include real-life examples of marine animals suffering due to plastic pollution and destructive fishing.

Engage local schools and youth groups to spread awareness in an interactive way.

3. Mimes & Visual Storytelling

Use mime acts to show sea creatures struggling due to pollution and human negligence.

Silent performances can make a powerful impact, especially in areas with language barriers.

4. Community Beach/Lake Clean-Up Drives

Encourage villagers to participate in cleaning local water bodies.

Provide reusable bags and gloves to collect plastic waste, promoting sustainable habits.

5. Poster & Art Competitions

Conduct drawing or poster-making competitions for school children, focusing on marine conservation themes.

Display winning posters in community centers and schools to spread the message.

6. Eco-Friendly Fishing & Sustainable Practices Awareness

Educate local fishermen about sustainable fishing techniques that do not harm marine creatures.

How did your team influence others ?

1. Beach Clean-Up Drives – Organized public clean-up events to remove plastic and waste from coastal areas, preventing marine pollution.
2. Street Awareness Campaigns – Conducted interactive sessions in public spaces, using posters, banners, and street plays to educate people about protecting sea creatures.
3. Workshops & Seminars – Hosted workshops in schools, markets, and fishing communities to teach sustainable fishing practices and responsible waste disposal.
4. Marine Conservation Exhibitions – Set up displays and demonstrations in public areas, showcasing the impact of pollution on marine life and encouraging eco-friendly habits.

Give examples of creative use of technologies in our project.

During the community engagement we used audio record app to record the voice note of people.

- To learn more about the sea creature impact we referred magazines like newspapers and Meta AI.
- Using internet we understood how this problem affects more on people.
- Using YouTube we have identified some places where the same problem is facing by people.
- To clarify our doubts we have conversed with our Aikyam mentors through video conference using google meet.

PICTURES OF TEAM PROJECT T-SHIRTS



THANK YOU

**"RESPECT MARINE LIFE -
REDUCE -REUSE-
RECYCLE" - Team VHIS**

Marine Impacts:

**HEALTHY
OCEAN -
HEALTHY
FUTURE**

