

### DEPARTMENT OF CIVIL ENGINEERING

#### MSME IDEA HACKATHON 5.0 Proposals Submitted by Students AY: 2024-2025

S. No	Name of the students & Roll Numbers	Department	Idea of the Sector	Title of the Proposal	Reference ID	Status
1	Laishetti Alekhya (23X05A0153)	Civil	Sustainable construction in India's East Coastal Region focuses on balancing development with environmental protection, using Nature-Based Solutions (NBS) like mangroves, implementing strict Coastal Regulation Zone (CRZ) norms, incorporating green building principles (energy/water efficiency, waste reduction, sustainable materials), and leveraging technology like satellite data for site planning, all while preparing for cyclone impacts through improved disaster management and soft engineering for coastal defense.	Sustainable Construction in East Coastal Region in India	INC25ETS106523	Submitted
2	B. Marry Venilla (23X05A0106)	Civil	A detailed study of Disaster Resilient Infrastructure (DRI) and Logistics reveals they are critical for minimizing economic losses and protecting lives, with indirect costs of infrastructure failure often being many times higher than direct damages. Resilience requires an integrated approach to planning, design, and recovery that accounts	Detail Study on Disaster Resilient Infrastructure and Logistics	INC25ETS106535	Submitted

			for regional hazards and systemic interdependencies.			
3	N. Shivani (24X05A0118)	Civil	The core concept of the CSMP-SC is to empower small-scale contractors with a tool that simplifies the selection of sustainable construction materials based on climate-smart principles. The tool will analyse project location, budget, building type, and environmental targets to suggest suitable materials that align with green building practices.	Climate Smart Material Planner for Contractors (CSMP-SC)	INC25ETS113251	Submitted
4	Edla Anand Vardhan (24X05A0104)	Civil	The innovation is a localized circular economy platform that facilitates the collection, up cycling, and resale of second-hand goods and locally sourced waste materials in coastal and hilly regions. It connects communities, artisans, and micro-entrepreneurs with digital tools and market access to transform discarded or unused items—such as fishing nets, wood scraps, textiles, and household goods—into valuable, sustainable products.	Innovation for business upliftment and sustainability in coastal and hilly areas Secondhand and Up cycled Goods	INC25ETS120396	Submitted

**R&D Coordinator**

**HoD-Civil**