



Guiding Spirit to Shipping Industry

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Electric Vehicle developed by B.Tech Marine Engineering Cadets, IMU Chennai Campus

The plan was to develop an indigenous electric vehicle that will serve the Green Campus of Indian Maritime University (IMU) in Chennai. Using an EV for commuting will aid in both the conservation of university resources and the provision of a convenient mode of transportation.

The project started in December 2022 and consisted of five stages. The vehicle design was validated in the initial step using AUTOCAD software. In stage 2, materials and components for vehicle construction were purchased.

The differentials, suspension, and battery were installed first, followed by the fabrication of the body,

electrical connections, and mountings. The final step of development involved test runs, troubleshooting, and debugging. The vehicle is now ready to operate on Semmencherry Premises with a payload of around 1000 kg. The vehicle can run for 4 hours on a full charge and has a maximum speed of roughly 40 kmph.

During the fabrication, 30 B.Tech (ME) Cadets were involved, with 8 core members designing the essential specs. Their enthusiastic participation and hard work helped in the completion of the first phase of the project in around 7 months.

The approximate cost of the first phase of EV is Rs.6,00,000/-. The dedicated work of

the Cadets was really outstanding starting from the acquisition of raw materials to the road trail of the EV.

The EV was given the name 'MINSARA MEEN' by our PRO-VC Dr Malini Shankar, and on July 12, 2023, our honorable vice chancellor officially opened it and dedicated it to the campus. By graciously attending, the Pro-VC Registrar, CoE, and FO, along with SMET Cadets and teachers, honored the programme.

The Vice-Chancellor Madam praised the Cadets and Team for finishing the assignment and gave the team members the "Certificate of Excellence."



Dr Malini Shankar officially opens EV MINSARA MEEN



Core Team Cadets awarded certificate of Excellence



New Unified Container Inspection & Repair Criteria address contaminating pests

The international supply chain is probably one of the most complex networks man has created, carrying 250 million containers every year. It's safe and smooth functioning relies on everyone in the chain taking responsibility for the integrity and cleanliness of the container when in their care. To help address this, the revised Unified Container Inspection & Repair Criteria (UCIRC) published by BIC, ICS and WSC now includes inspection criteria for container

depots and other container handover facilities to address pest contamination on and in containers.

The first edition of the Unified Container Inspection & Repair Criteria (UCIRC), designed for use at all container depots and container interchanges, was developed and published by ICS in 2000. The publication details the criteria to be considered in the context of inspection for physical damage or structural deformations of the sea container. Since then, the industry

has developed and, maybe most importantly, contaminating pests hitchhiking in or on containers has increasingly become an issue of concern. However, the previous editions of UCRIC did not address inspection for visible pest contamination on the container, resulting in the possibility that containers might be dispatched empty from container depots with hitchhiker pests.

To address this issue, the Bureau International des Containers (BIC), the International Chamber

of Shipping (ICS), and the World Shipping Council (WSC) joined to ensure the UCIRC was adjusted to meet today's requirements. **The revised UCIRC** has been updated to make inspection for and removal of visible pest contamination an integral part of the container inspection and dispatch process. The document outlines special provisions to inspect for pest contamination at container depots as well as at all other interchange points.

Just as any major structural deficiencies must be repaired, any pest contaminants must be taken care of prior to the dispatch of the

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