**Registration Number: 0114**

**TOLANI MARITIME INSTITUTE, INDIA**



**TEAM LEADER**:AMRITRAJ

Mob. +918698371499 dbgamrit@gmail.com

Undergraduate Student, Bachelor of Science in Marine Engineering.

Tolani Maritime Institute, Induri, Pune--‐410507, India

**TEAM MEMBERS’ CONTACT INFORMATION:**

ANURAG ATTRI anurag.attri19@gmail.com

SHUBHAM CHOUDHARY connect.shubh@gmail.com

AKSHAT KUMAR axd.123@gmail.com

VAIBHAV SAXENA pk1saxena@gmail.com

ARJUN SHIVACH shivacharjun@gmail.com

**ABSTRACT**

The designed ferry is a **Monohull** with Nose Berthing and **Diesel Electric Propulsion**. Safety and affordability have been the key concerns during the design. Additional innovative features including **Load Cell** dependent Engine Interlock to prevent overloading, and Athwartship Truck Traversing Mechanism (**ATTM**) to reduce the loading time at ports have also been incorporated. The ferry is capable of carrying **16 trucks** in addition to the required number of passengers and has been proved **stable for twice the capacity** under overloaded conditions. The cost of the ferry comes to be around **USD 1.16 million**, and the **IRR** method for investment appraisal has been used to prove it as an economically sound business model.