AUV Society
IITDM Kancheepuram, Chennai, India
- We are returning for the MATE-ROV World Championship with a new team this year.
- We will be travelling from Chennai to Colorado (around 14000 kilometers).
- Our team consists of students from their 2nd and 3rd year of B.Tech. (UG) Programme.

Safety Features:
- Emergency stop settings
- Stable 48V DC voltage supply
- Strain relief device for cables
- No sharp edges on the hull of ROV
- Custom 3D printed Thruster Shielding
- Kill Switch setup on the controller
- Fuse
- Use of Anderson SBS50 Connectors
- Use of standard Littelfuse of appropriate rating (20A)
- Use of XT and MT Connectors to prevent improper wiring
- No exposed wiring inside and outside ROV

Special Features:
- High payload, High speed
- High adaptability to various scenarios
- Custom designed HDPE frame
- Lumen Lights
- Frame designed to act as lifting handle
- Easily interchangeable thruster configuration
- High Quality Camera vision - OAKD Series 3
- Secondary camera to manage gripper usage
- Modular ROS based Control System
- Symmetrical body, 6 degrees of Freedom
- Additional Hull Space for future technical expansion and improvement
- Hybrid - Can be modified to work as both ROV & AUV.

ROV Specs
<table>
<thead>
<tr>
<th>ROV Marty</th>
<th>Total Cost Spent</th>
<th>3,01,140 INR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>80.3cm x 43.5cm x 47.4 cm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>15.15kg</td>
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<tr>
<td>Student hours spent</td>
<td>6-7 months</td>
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</tbody>
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Our Team

Venkata Madhav CEO, Software Team
M Vibhav Gopal Software Team, Pilot
V S Roshan Software Team, Operations
R Soorya Software Team, Vision Control
Abhishek M J Software Team, Vision Control
M. Nithin Electronics Team, Systems
K S Raahul Electronics Team, CTO
Srikrishnan S Mechanical Team, CFO
Vishal A S Mechanical Team, R&D
Raghavendran S Mechanical Team, R&D
Vijay Krishna R V Mechanical Team, Publicity
Vaishnavi M Mechanical Team, Testing