ORCA ROBOTICS

MEMBERS

- Madhav Lodha
- Aayushi Verma
- Dhruv Sharma
- Sanika Sonpethkar
- Yash Singhal
- Aarav Jayapalan
- Apurva Aggarwal
- Anisha Yadav
- Arush Rastogi
- Kabir Gupta
- Arshad Shiju
- Viraj Malhotra
- Tagore Gadela
- Yohaan Master
- Anwesha Putatunda

NAME: RED V
HEIGHT: 34cm
COST: $1485
WIDTH: 32.5cm
WEIGHT: 6.2KG
LENGTH: 47.5cm
COLLECTIVE TIME: 4500 hours

DISTANCE TO WORLD CHAMPIONSHIPS: 14,134km

SAFETY FEATURES

- Tether strain relief (control station and ROV)
- IP20 rated shrouds on thrusters
- Waterproofed components using Wetlink penetrators and BOPLA BOCUBE
- Depth sensor, mate float and robot have 2amp, 3amp and 25 amp fuses respectively
- Emergency stop button in control station and software
- Bumpers on all edges of the ROV

SPECIAL FEATURES

- Modular
- Rotatable and powerful manipulator
- Pivotal buoyancy tubes for painless access to the electronics
- Vectorised thrusters for 6 degrees of freedom
- Autonomous navigation
- Advanced vision recognition
- Depth sensor for automatic altitude correction
- 2 HD 1080p cameras