

Shell ECO-MARATHON[®] AMERICAS

TEAM FACT SHEET

Chitkara Institute of Engineering & Technology / Punjab Technical University

Country:

Design Class: Prototype

Fuel Type: Gasoline (Petrol)

Team Name: TEAM STEALTH

Vehicle Name: STEALTH

Team Members:

Ankit Khurana - Aerodynamics & Team Manager

Samaksh Chadha - Chassis & Designing

Amit Jamwal - Chassis and Designing Head & Reserve Driver 2

Raghav Thapar - Transmission & Reserve Driver 1

Manish - Engine deptt. Head

Abhimanyu Sharma - Engine deptt., Transmission Head & Driver

Ayush Nijhawan - Aerodynamics

Sahil Sohal - Engine deptt. & Fuel Line Supply System

Siddharth Bahuja - Marketing Head

Anirudh Jethi - Safety & Scrutiny



Award Submission(s):

Safety

The car has a wide screen of polycarbonate (5feet by 3 feet) for the driver to have an all round visibility of the surroundings. The Driver's cockpit is separated from the engine via a 2 inch thick insulation panel, accompanied by a fire extinguisher in a very easy to access position, the ventilation is provided with the help of PVC lowers & via the tire space.

Technical Innovation

We have designed a 4 link steering mechanism which has a complete reversibility and is pretty simple in design. We have used Light weight Aluminum rims which have reduced the gross weight of the vehicle. Mechanical disk Brakes of Aluminum have been used which are giving a Braking Efficiency of 80 %.

Eco-friendly

We have incorporated a spark plug in the engine at the Exhaust port which minimises the waste of fuel and hydrocarbons, the vehicle engine has been modified in such a way that the exhaust contains the least amount of hazardous gases. A muffler has been designed to give the minimum sound & pollution from the car.

Design

The team's design has been inspired from a sea animal, and thus the color chosen is bluish green. The car has an appealing design and it catches the eye in milliseconds. The car is in body shop as on 31st march, 2009, photos of the vehicle shall be provided as soon as possible. Or can be mailed to Todd Stonis & Ecomarathon Americas

Communication and Marketing

We have looked for sponsors since the beginning of this project, and finally we have certain collaborations with big brands like Bharat Petroleum, Chitkara Educational Trust, & State Bank of India as our Monetary Sponsors (proof shall be provided on the spot), media publicity partners are Motoring Magazine, Zee Business Channel, NDTV, Overdrive Magazine, Post Event Launch in New Delhi, and participation in World Auto Expo, New Delhi, India in January 2010, where the vehicle would be on display for a period of 4 days.

