



IIITDM
KANCHEEPURAM

Sponsorship Proposal

SAE CLUB IIITDM KANCHEEPURAM

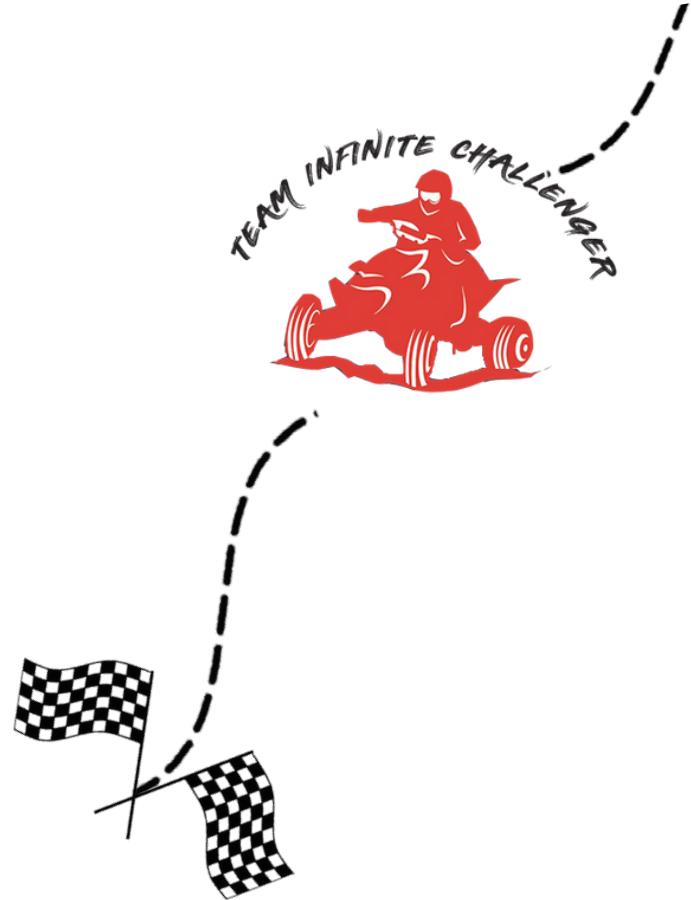


TABLE OF CONTENTS

[About the team](#)

[Mission](#)

[About the institute](#)

[About SAE mBaja](#)

[ATV buggy-Technical details](#)

[Bill of materials](#)

[Why support us?](#)

[Sponsorship tiers](#)



Our Team

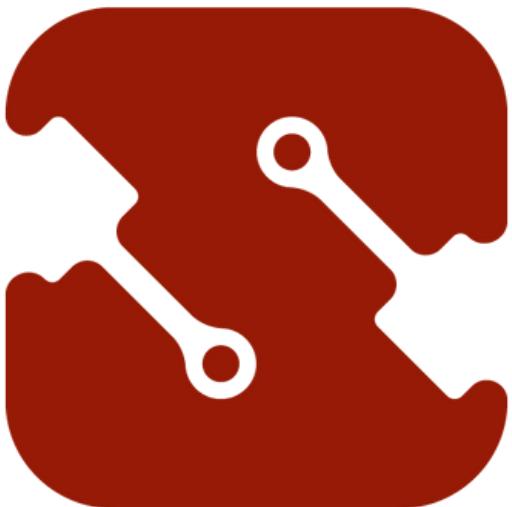
About the Team

- The IIITDM Kancheepuram SAE Baja team also known as Team Infinite Challengers, a student organization of 25 inter-disciplinary engineers.
- Our team consists of different departments like Roll cage, Suspension, Steering, Brakes, Electronics and Transmission & Powertrain.
- We have been mentored by two expert faculties, Dr. Shubhankar Chakraborty and Dr. Kashfull Orra.



Mission

The purpose of the IIITDM Kancheepuram SAE team is to expand upon and apply theory learned in the classroom through participation, leadership, outreach, design, and fabrication of an off-road Baja vehicle, make elegant aero models, and create a super-fast SUPRA race car for SAE competitions.



SAE CLUB
IIITDM KANCHEEPURAM

About the institute

Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram (IIITDM) is an Institute of National Importance under the Ministry of Education and set up in the year 2007 with a vision to produce a new breed of engineers to support the competitiveness and growth of the Indian manufacturing sector with knowledge-intensive and creative products and processes. In other words, a model of engineering that synthesizes the best practices of IITs (Technology), IIITs (IT), and NIDs (design). IIITDM is also strategically placed in the proximity of the industrial clusters in Chennai and UNESCO heritage sites like Mahabalipuram and Kancheepuram.



About SAE mBaja

- Student level competition for engineering students from all over India.
- To design and build prototype of a off-road, 4-wheel, single seat vehicle
- The competition includes static and dynamic events.
- Static events consist of submission of reports for design, cost and sales presentation
- Dynamic events consist of physical events such as acceleration, manoeuvrability, speciality and endurance.
- Each competition is based on a total of 1000 points



ATV Buggy - Technical details



The Roll cage is designed in such a way that it is lighter and sturdier compared to the roll cages of the previous teams.

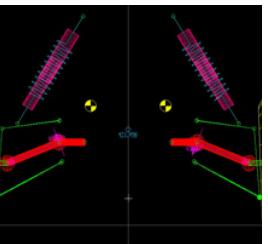


The Clutch plate type limited slip differential is used for front axle, such that it provides best traction under all conditions. A custom gearbox is also made to incorporate AWD by reducing the complexity by omitting the central differential and parallel reducing the weight and cost.

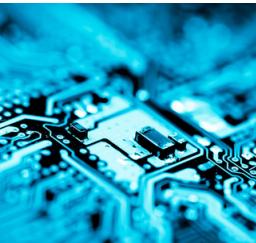
The Rack and pinion steering is used with Ackermann geometry which is easy to operate with accuracy and easy to manufacture.



The braking system designed is capable of locking all four wheels when travelling at 68 kmph with a stopping distance of 5.2 m. The system distributes the braking force between rear and font. The designed disk type braking system with X-split circuit uses a Dot 3 brake oil.



The double wishbone suspension is used for both front and rear for better handling, control and efficiency.



A whole inhouse DAQ built including temperature sensor, rpm sensors, ultrasonic sensors for oil levels (to know any leaks), oil pressure sensors. This helps in validating everything for our choice of gears ratio to mechanical improvements for next prototype.

Bill of materials

ATV	Cost
Roll cage	40,000
Transmission	200,000
Braking system	30,000
Suspension	125,000
Steering	20,000
Tyres and rims	60,000
Electronic equipments	70,000
Fastners	5,000
Body Panels	5,000
Hubs and knuckles	25,000

Competition	Cost
Registration for virtual round	25,000
Registration for second	35,000
Transportation	100,000
Safety equipment for car	160,000
Shop overhead	50,000



**The total amount required to
build a car from scratch**

9,50,000

Why Support Us ?

- Corporate Social Responsibility
- Widespread publicity on social media handles on team & IIITDM Kancheepuram, team website, car, banners, giveables,
- Media Exposure
- Possible R&D collaboration with IIITDM Kancheepuram
- Supporting Design and Engineering Community
- Helping students to follow their passion





Supporting Team Infinite challenger

- Sponsorship with Team Infinite Challengers reflects that your company supports our vision and goals. The team can be supported through general funding, service donations, parts, material, equipment, or by technical expertise. This represents that your company is supporting students' desires for a hands-on and real-life learning experience.
- Support is needed for the fabrication of the Baja vehicle as well as ensuring that that team can travel to competitions. IITDM Kancheepuram, Chennai has supplied the organization with office and shop space; however, a great deal of equipment and supplies are still necessary to operate the shop.
- Sponsorships also help build relationships between companies and students who will be entering the industry soon.



Sponsorship Tiers



Sponsored by
<Diamond title sponsor>

DIAMOND TITLE SPONSOR

Diamond title sponsor must fund a minimum of 1,75,000 for privileges of the tag:

Company logo and name on team website and apparels.

Online publicity on social media platform of the team

Promotion at the national competitions.

Company logo on team posters and merchandise.

Promotion at car launch and other promotional events.

Large logo on car.

Distribution of company merchandise

Association of company name with team title.

Sponsorship Tiers

GOLD ASSOCIATE SPONSOR

Gold associate sponsor must fund a minimum of 50,000 for privileges of the tag:

Company logo and name on team website and apparels.

Online publicity on social media platform of the team

Promotion at the national competitions.

Company logo on team posters and merchandise.

Promotion at car launch and other promotional events.

Medium logo on car.

PLATINUM MAJOR SPONSOR

Platinum major sponsor must fund a minimum of 1,00,000 for privileges of the tag:

Company logo and name on team website and apparels.

Online publicity on social media platform of the team

Promotion at the national competitions.

Company logo on team posters and merchandise.

Promotion at car launch and other promotional events.

Large logo on car.

Distribution of company merchandise

Sponsorship Tiers

SILVER SPONSOR

Silver sponsor must fund a minimum of 30,000 for privileges of the tag:

Company logo and name on team website and apparels.

Online publicity on social media platform of the team

Promotion at the national competitions.

Company logo on team posters and merchandise.

Medium logo on car.

BRONZE SPONSOR

Bronze sponsor must fund a minimum of 15,000 for privileges of the tag:

Company logo and name on team website and apparels.

Online publicity on social media platform of the team

Promotion at the national competitions.

Small logo on car.

CARDINAL SPONSOR

Cardinal sponsor must fund anything below 15,000 for privileges of the tag:

Company logo and name on team website and apparels.

Online publicity on social media platform of the team

Sponsorship Tiers



Location of logo on car.

Contact Us



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THANK YOU

