



SARDAR VALLABHBHAI
NATIONAL INSTITUTE OF TECHNOLOGY
SURAT

Designed by : MAULIK MAKWANA
08758897829

NIT SURAT
phoenix
Racing

SPONSORSHIP BROCHURE

ABOUT



SVNIT

Sardar Vallabhbhai National Institute of Technology is one of the premier technical institute of our country.

Declared as a institute of national importance(INI) by ministry of education, Government of India.

It has been churning out engineers par excellence for the past 60 years.

Set on the outskirts of the fastest growing city of the country.

It is taking giant strides of technical education. While promoting practical knowledge and hands on experience same time.

STUDENT FORMULA

FORMULA SAE(FSAE) is an intercollegiate design competition sanctioned society of automobile engineers(FAE) for student members. First held over 30 years ago. The competition has grown to include 3 US and 6 international events annually in Europe, Asia, South America and Australia. Attracting over 400 teams from nearly 50 countries. SUPRA SAE India being the Indian version of the competition. The competition challenges engineering students to budget, design, build, dynamically test and race an open wheeled formula-styled race car thus providing students practicals manufacturing experience while challenging them to use knowledge, teamwork and creativity. This helps the objective of bringing out student talent to serve the nation for the nation for the years to come. In fulfillment of the automotive emission plan(AMP 2016) a dream to make India an international automotive hub.

FACULTY PROFILE



Dr. Rupesh D. Shah

Dr. Rupesh Dineshbhai Shah is an assistant professor in the mechanical engineering department. He holds a Ph.D. from same institute with 9.67 SGPA in course work. He has published 6 papers in international conferences and 12 at national level. He has delivered 17 expert lectures and has organized 6 workshops. He has attended a national conference and has proceeded or edited 2 books. He has completed Rs. 19.45 lakhs research titles "Towards development of an upward swirl can type gas turbine combustor" and is currently working on "parametric investigation of an upward swirl can type gas turbine combustor" with a sanctioned fund of Rs. 20.12 lakhs. He has guided 30 M.E./M.Tech. Students.



Dr. V D Kalyankar

Dr. Vivek Devidas Kalyankar is an assistant professor in mechanical engineering department. He is a Ph.D. holder and has been awarded "IEI Young Engineer Award in Mechanical Engineering Discipline" (2014-2015) by Institution of Engineers (India). He has 10 publications in International Journals, 15 in International Conferences and has written a chapter in a published book. He has two founded research projects amounting to more than 8 lakh Indian Rupees. He has delivered 10 expert lectures and is guiding 1 Ph.D. student fulltime and has successfully guided 7 M.Tech students. His areas of interest include Manufacturing processes, materials and optimization.



Shri Vimal K. Patel

Shri Vimal K. Patel is an Associate Professor in Mechanical Engineering Department at Sardar Vallabhbhai National Institute of Technology, Surat. He holds his M.Tech degree from Indian Institute of Technology, Bombay (IIT-B), and also currently pursuing his doctorate from the same institute. He has 3 publications in International Journals and has delivered 5 publications in International Conferences. He is guiding 5 M.Tech students fulltime and has successfully guided 13 M.Tech students. Being an engineering enthusiast, he has been guiding the Student Chapter: Society of Automotive Engineers (SAE) with great dedication and full support.

PAST ACHIEVEMENTS

phoenix
Racing



GARUDA 2005

Launched India's 1st ATV.
Given the status SAE India vehicle by
ARAI, Pune.
Used for testing and development
of track at NATRIP Indore.



PUSHPAK 2006

Participated in BAJA 2006
in Portland.
USA won the Chairman's award.



ASHWAMEDH 2007

BAJA again.
Overall 7th out of 29 teams.
Stood 1st in Hill Climbing,
2nd in Acceleration,
3rd in Design and Cost Report.



NIT SURAT
yuyutsu
phoenix
Racing

YUYUTSU 2009

BAJA SAE India, 2009.
Placed 20th out of 59 teams.

PAST ACHIEVEMENTS



ANSHUMAT 2010

Participated in BAJA Asia, 2010.
Placed Overall 5th out of 80 teams.
3 top ten finishes in individual events.



PHOENIX 2011

Secured 1st prize in presentation,
2nd prize in Cost Report & stood
4th in overall performance.



EKLAVYA 2011

Implemented four-wheel
Steering



phoenix
Racing

PAST ACHIEVEMENTS



PHOENIX 2012

Won 1st prize in Cost Report
3rd in Acceleration Test
4th in Skidpad
5th in Overall Ranking
6th in Endurance



PHOENIX 2014

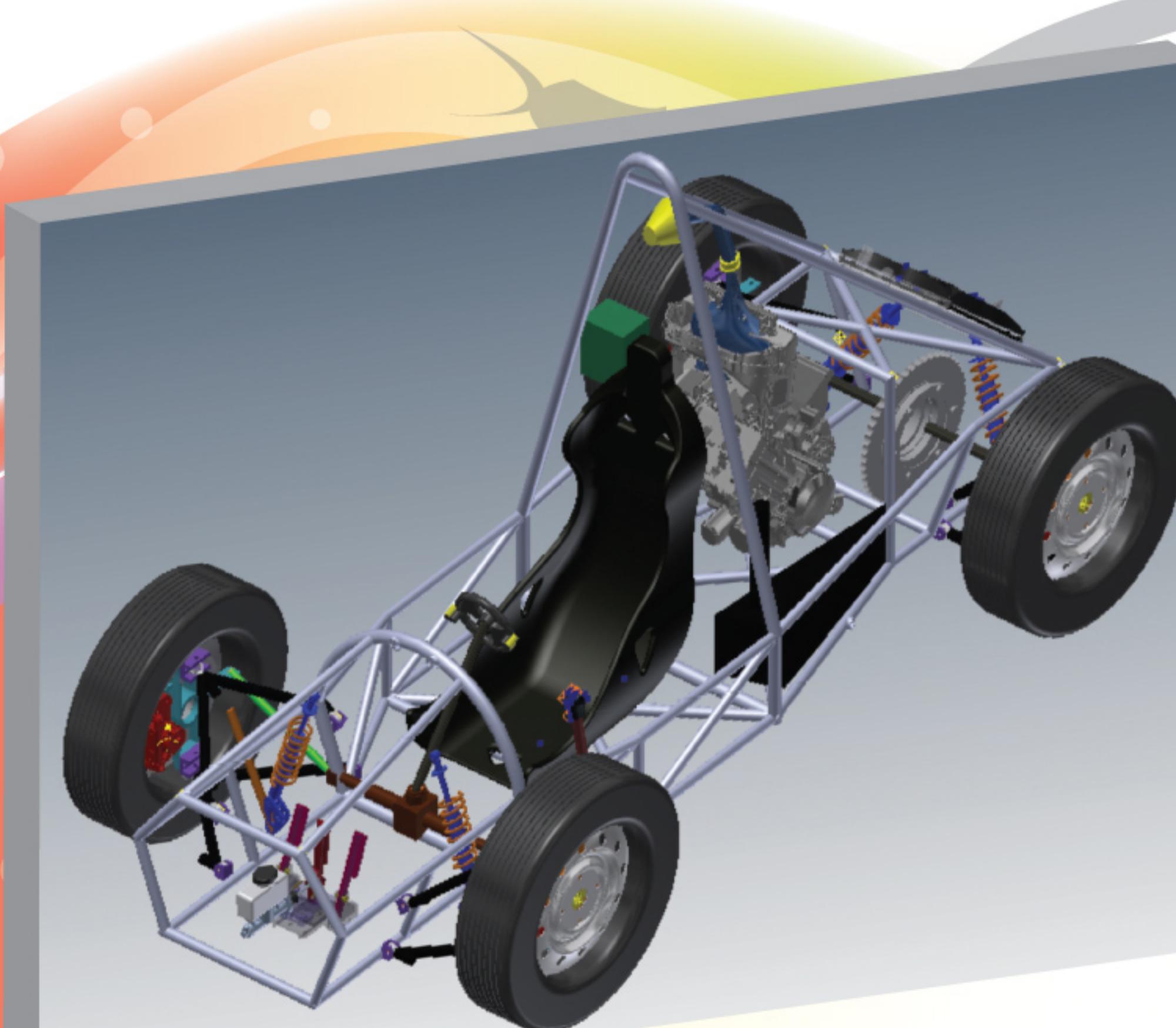
National Go Kart Championship

Won 2nd prize in Preliminary design Education
Placed 30th in Overall Ranking

**PHOENIX
2015**



PHOENIX 2016 - Proposed design



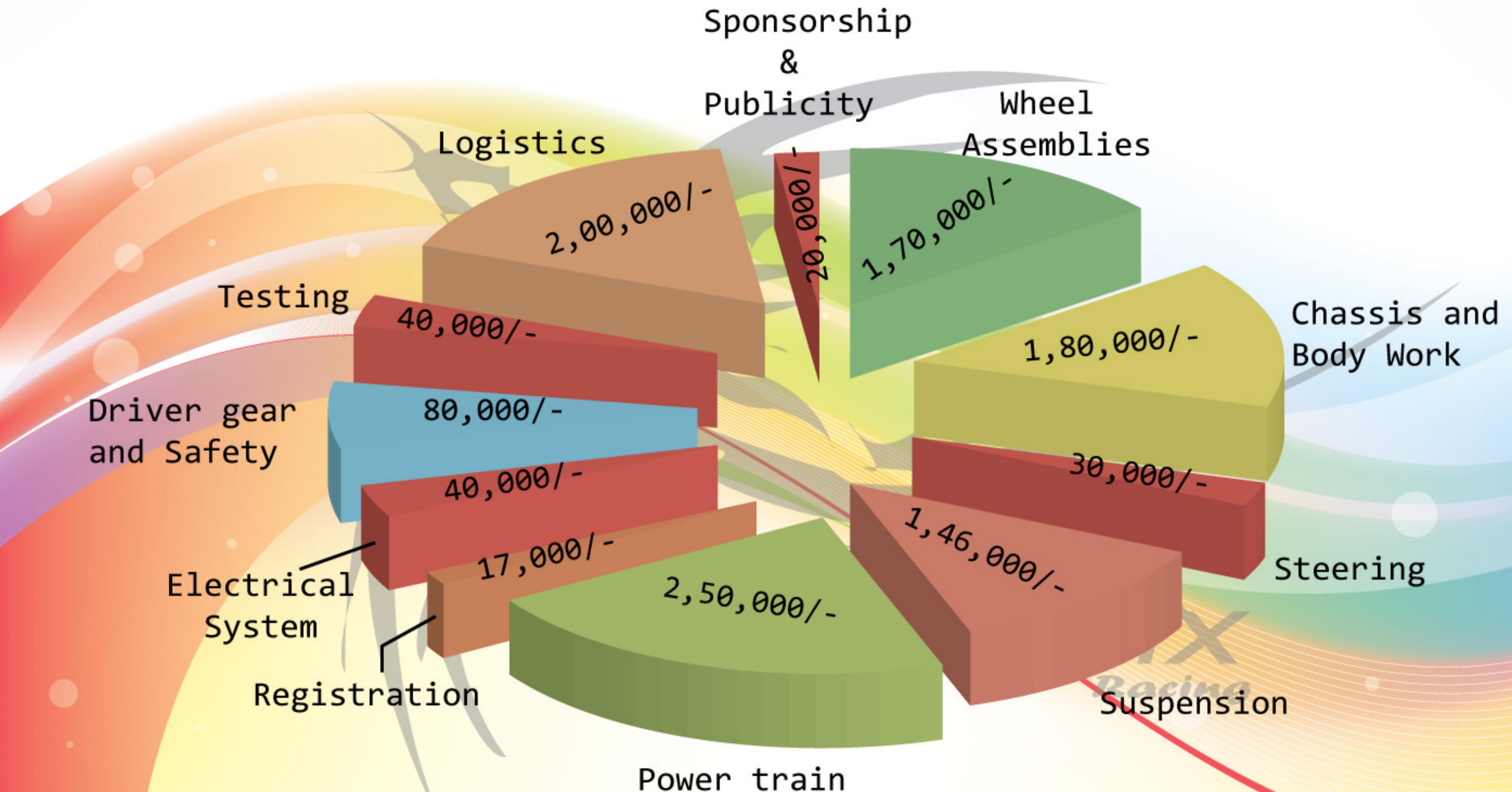
ENGINE	: Honda CBR 600 RR
COOLING	: Liquid Cooled
FUEL SYSTEM	: Electronic Fuel injection
INDUCTION	: Naturally Aspirated
DRIVE	: Chain Drive
SHIFTER	: Mechanical
BRAKE	: 4 Wheel Disc, Front and Rear
FR SUSPENSION	: Unequal A-arm, Pushrod Actuated
PP SUSPENSION	: Unequal A-arm, Pushrod Actuated
FR/RR TRACK	: 52"/50"
WHEELBASE	: 65"
OVERALL LENGTH	: 108"
FRAME	: Tubular Mild Steel Space Frame
TIRES	: 20x6.5-13

BUDGET ANALYSIS



SrNo	Components	Details	Cost(Rs)
1	Wheel Assemblies	Tyres and rims, Brake Assembly(Callipers, discs, cylinder), hubs, uprights	1,70,000/-
2	Chassis and Body Work	Steel tubes, Welding Equipment, Brackets and mountings, Fibre Reinforced Polyester sheets etc	1,80,000/-
3	Steering	Steering Rack, bearings, Column, tie rods	30,000/-
4	Suspension	Shock Absorbers, Springs, A Arms, Rod and bearings	1,46,000/-
5	Power train	Engine with gearbox, Bearings, Chain, Differential, Drive Shaft, Sprocket	2,50,000/-
6	Registration	Competition Entry fee	17,000/-
7	Electrical System	Custom boards, Engine management system, Wiring, harness, guages and sensors	40,000/-
8	Driver gear and Safety	Driver safety, seat belt, fire extinguisher, neck restraint, shoes	80,000/-
9	Testing	Fuel, oil, repairs, engine testing rig, upgrades	40,000/-
10	Logistics	Accommodation of team, Transport of vehicle	2,00,000/-
11	Sponsorship and Publicity	Printing, Display, Postage, travelling	20,000/-
12	Total		11,73,000/-

BUDGET BREAKUP



Sponsorship level	Platinum 3,00,000+	Golden 2,00,000+	Silver 1,00,000+	Bronze 50,000+	Copper 10,000+
Company name associated with Team name	✓				
Paint scheme decision	✓				
Large Logo on Car	✓				
Logo on Driver's helmet	✓				
Logo on both sides of the car	✓				
Recognition during media exposure	✓	✓			
Company banner at team pit during the event	✓	✓			
Use of car at company functions	✓	✓			
Logo on team T-shirts	✓	✓	✓	✓	
Logo on Driver's dress	✓	✓	✓	✓	
Large framed team photo with company photo	✓	✓	✓	✓	✓
Promotion at fests	✓	✓	✓	✓	✓
Logo on the car	✓	✓	✓	✓	✓
Tax benefits	✓	✓	✓	✓	✓
Logo on Team Website	✓	✓	✓	✓	✓
Logo on team's banner	✓	✓	✓	✓	✓
Promotion on Facebook, Twitter and Instagram Pages	✓	✓	✓	✓	✓

PREVIOUS SPONSORS



Student Council



mahindra



TOYOTA

TATA MOTORS

Godrej



APOLLO TYRES LTD.



केन्द्र बैंक



phoenix
Racing

CONTACT DETAILS



SPONSORSHIP TEAM

SANKET RATANKAR - 09898425112

MOSAM DABHI - 09408503999

RAHUL MEHRA - 09537784427

VIMAL YADAV(Captain)

09173280144

AMOL SHINDE(Manager)

09925638156