



Sponsorship Brochure

TEAM IGNIS

The Rocket Propulsion Centre, COEP
Technological University, Pune



About Us...

IGNIS is the official rocketry team of COEP Technological University, Pune.

We are a passionate and multidisciplinary group of 35+ students from various departments.

Our mission is to pioneer innovation in student rocketry and represent India at global competitions like Spaceport America Cup 2026 in the SRAD 10K category.

We also aim at making space more accessible by using reusable rockets at competitive costs.



Rocket Specifications



Airframe Diameter:- 7.5 cm

Estimated Apogee:- 650m+

Recovery Parachute

uses black powder charge to eject parachute, helping the rocket recover safely

Avionics and payload section

helps the rocket to achieve mission objectives and recover itself

Aerodynamic fins

for stability throughout the flight

Propulsion System(Class H motor)

Propulsion type:- Solid Fuel (KNDX)
Manufactured entirely by us

95cm
Total length
Of Airframe

The Airframe is composed of Glass fiber, 3D printed ABS, poly-acrylic entirely in-house





About the motor:-

Unlike most teams that rely on commercially available motors, we have dedicated significant effort to research and develop our own H-class motor in-house. This motor produces an average thrust of 440 N and has undergone extensive testing. Through multiple iterations and upgrades, we have made it highly reliable — a fact proven by its successful deployment in our first rocket launch.

We have also successfully tested our motor over five times, consistently demonstrating its performance and reliability.



First Successful
Iteration of our motor

Specifications of our motor

Propulsion Type: Solid fuel(KNDX)

Total impulse: 298Ns

Specific impulse 127s

Burn time 0.7s

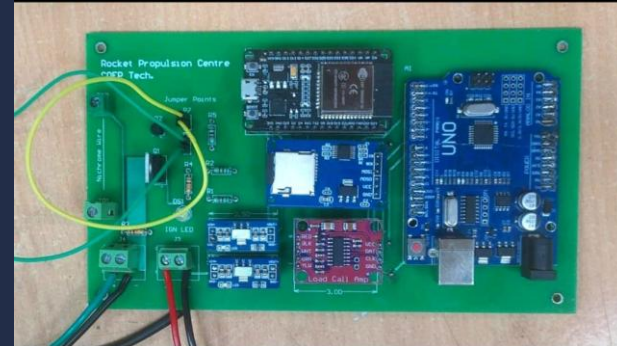
Thrust: 440N



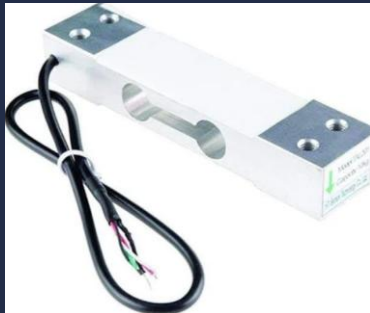
Avionics & Control Team



The On-board avionics consists of an gyroscope, altimeter, SD card for real time data logging, GPS, and power sources to monitor flight path, and deploy parachutes for recovery. The entire circuit is assembled and designed in-house and tested multiple times. The circuit is made flexible to accommodate future upgrades and fixes.



Altimeter Circuit, the brain of the rocket



Load cell for measuring thrust



LoRa Module for Remote Launch Capability

The rocket's remote launch functionality is enabled through LoRa-based communication modules. Thrust during on-ground static motor firings is accurately measured using load cells.

Recovery



The Recovery system consists of one parachute, which is present on the nose of the rocket. At the right moment, a black powder charge ejects a parachute to land softly



After the rocket has completed its mission, the on-board GPS system helps re-locate the rocket, in certain scenarios



Vision & Mission

Vision:

To become a globally recognized student rocketry team capable of launching reusable rockets, and to evolve into a pioneering space company that provides cost-effective satellite launch services with a strong focus on reusability.

Mission:

To represent India at the Spaceport America Cup (SAC) 2026 by developing advanced rocket systems and taking a significant step towards *Aatmanirbhar Bharat* through the in-house manufacturing of major components.



Space on Wheels @ COEP Tech

(ISRO × Vigyan Bharati Initiative)



The "Space on Wheels" mobile exhibition brought ISRO's legacy to Western Maharashtra, showcasing cutting-edge missions like Chandrayaan and Gaganyaan. At COEP Tech, students engaged with interactive exhibits, learning how space technology powers daily life—from agriculture to disaster management. With 415,520+ visitors across 7 districts, this initiative proved science's power to inspire generations.



Our display
@ Space on Wheels



Interacting with Dr. Pankaj
Priyadarshani



Scientists @ COEP

Team Milestones



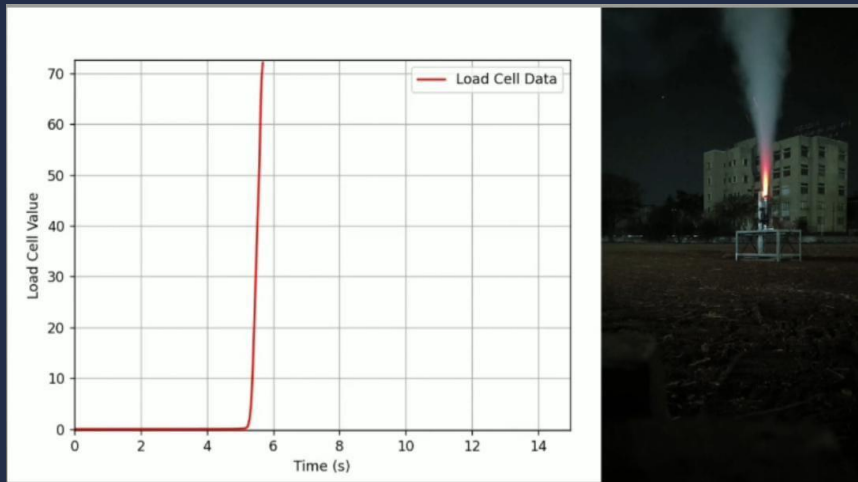
Got featured in the *Puneri* newspaper



Successfully Launched our first rocket at an height of around 600m



Met and interacted with top ISRO Scientists



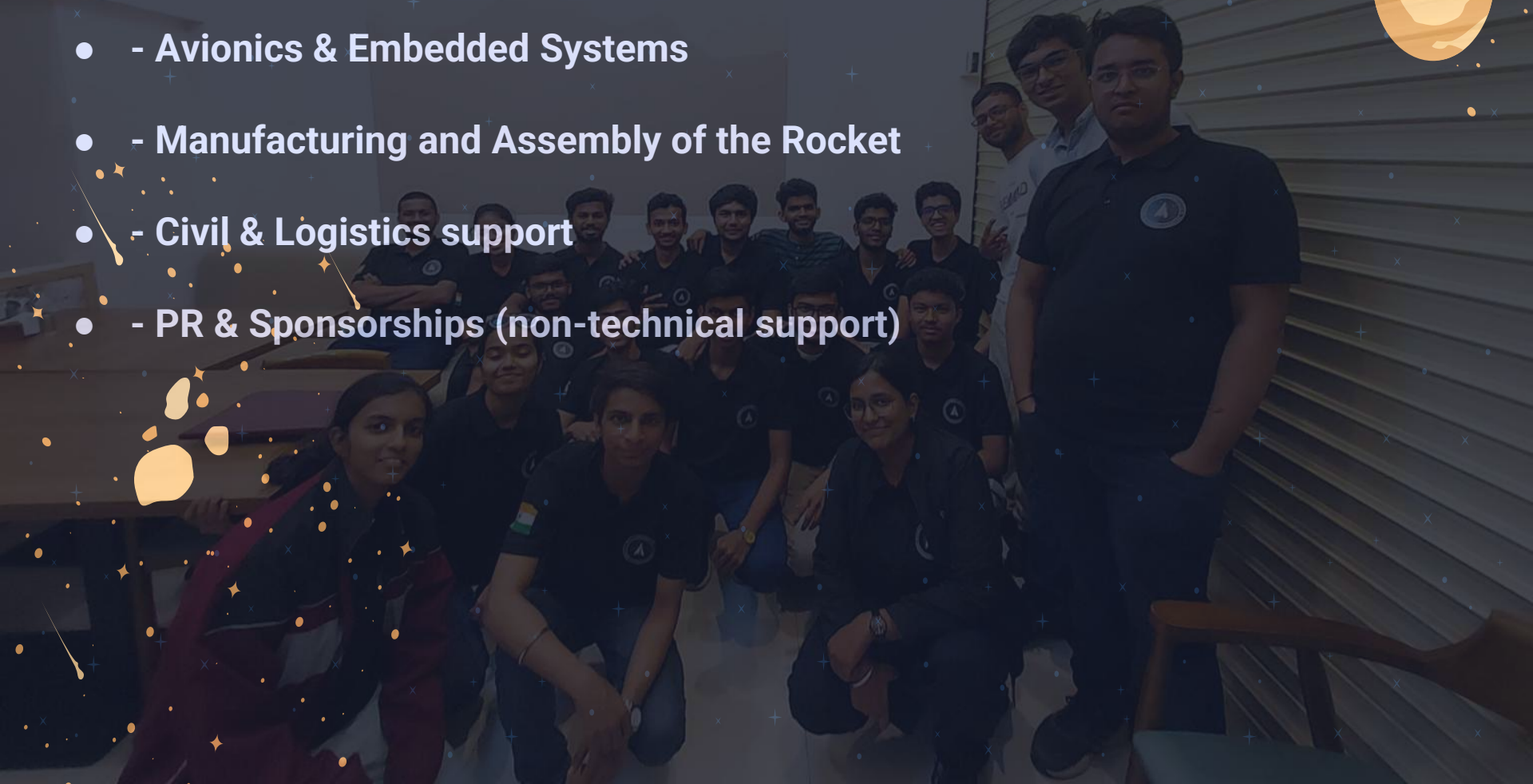
Successfully conducted multiple tests of our in-house developed motor.

Team Composition



We have a large dedicated team of 35+ students working in various fields like :-

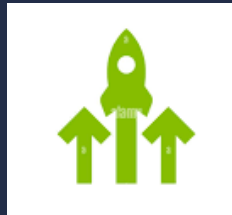
- - Propulsion & Structures
- - Avionics & Embedded Systems
- - Manufacturing and Assembly of the Rocket
- - Civil & Logistics support
- - PR & Sponsorships (non-technical support)





SAC 2026 & Future Plans

Upgrading in-house propulsion systems to power a 10,000ft apogee rocket - nearly 5x higher than our 600m benchmark.



Taking complete ownership from design to testing - every component developed and assembled in our labs with zero external dependencies.



Developing proprietary flight control systems including thrust vectoring and reaction wheels for pinpoint stability mid-flight.



Challenges faced by us

How you can help us

Manufacturing

Manufacturing of rocket airframe, motor, fuel, tools, etc require significant amount of funds



Materials (cash/in-kind)

Supplement of wide variety of materials, highly specialized tools, etc.



Logistics

Requirement of a reliable method for transport of materials, travelling to launch sites, competitions.



Services

Shipping, lodging, travel planning, and packaging are the services required



Technical Aspects

Requirements of funds for electronic components, simulation software, research on advanced materials



Support

Support of any kind- financial, scientific, mentoring, connecting us with relevant people is highly appreciated



Miscellaneous

Fees for entering competitions, printing of logos on t-shirts, require fundings



Financial

Help with paying fees for competitions, printing uniforms, travel allowances can be helped with





Why Sponsor Us?



Join us in building an Aatmanirbhar Bharat!
We innovate and manufacture in India—
support self-reliance and 100% homegrown
technology.



Fulfill CSR goals by
supporting student
innovation, and gain
access to skilled,
industry-ready talent.



Boost branding via
rocket/merch logos
social media
promotions.

Showcase your brand on national and international platforms
through our participation in global competitions like the Spaceport
America Cup.



Budget Breakdown



Sectors	Materials	Budget	Sectors	Materials	Budget
Payload	Navigation and Positioning System	5.0 Lakh	Payload	Linear Actuators, IR Cameras, LiDAR	5.0 lakh
Airframe	Nose Cone, Body	5.0 Lakh	Travel	Tickets, VISA	10.0 Lakh
Avionics	Sensors, control systems, telemetry	2.5 Lakh	Shipping of Rocket	Packing and Shipping	3.0 Lakh
Propulsion	Engine, propellant, oxidizer	5.0 Lakh	Accommodation and local travel	-	5.0 Lakh
Recovery	GPS, Parachutes	1.5 Lakh	Competition Fees + Rocketry Fees	Registration	2.0 Lakh



Sponsorship Tiers

We offer multiple sponsorship tiers tailored to your level of interest and support. Every rupee, contribution, and gesture of help is deeply valued. In return, we offer meaningful recognition and visibility based on your sponsorship tier:

Diamond (7 Lakh+)
Title Sponsorship

Gold (4-7 Lakh+)

Silver (2-4 Lakh+)

Bronze (1-2 Lakh+)

Supporter (50k – 1 Lakh)

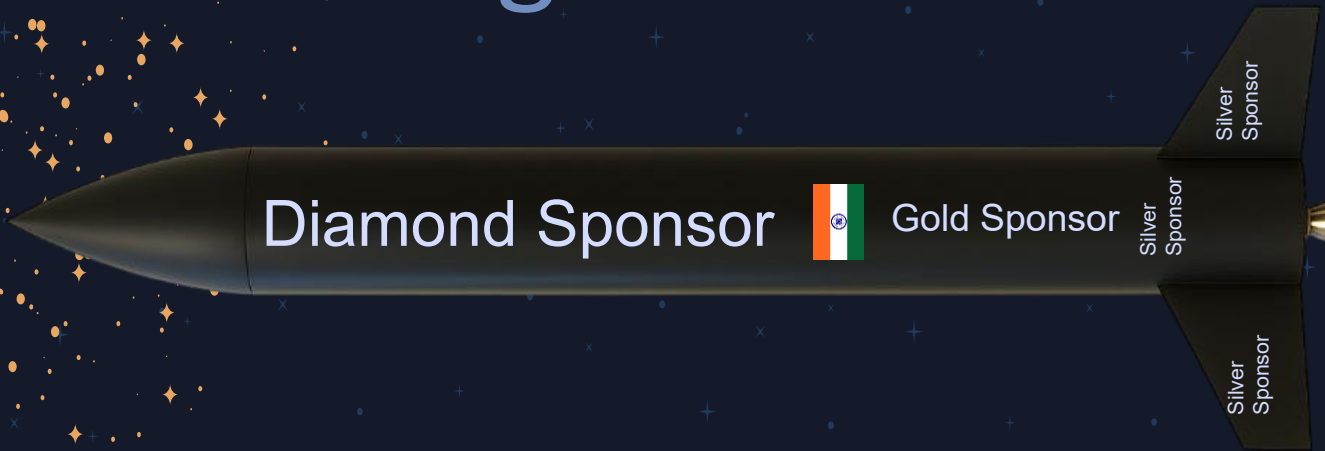


Tier Benefits

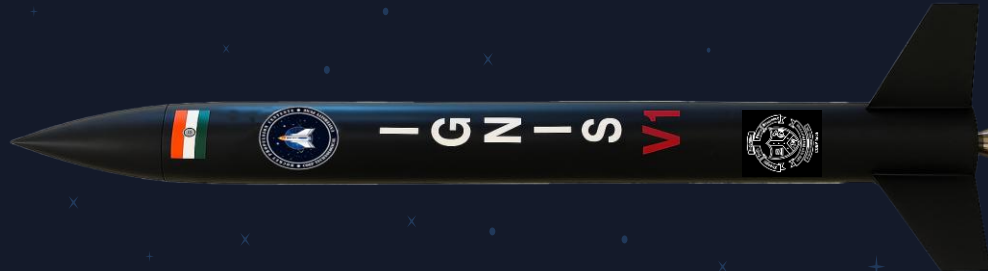
Tiers	Logo Placement	Online Promotion	Presence in events	Access to Team's Resume	Introduction to Team Members	Customized Benefits
Diamond	Large logo Presence on all places	Special Mention and all below	Special Preference to all below	Access to Team's Resume	Personalized Company Introduction	Special custom benefits
Gold	Logo Presence on most places	Website blog Post + all below	Invitation to outreach events	Same above	All below	-
Silver	Logo presence in few places	Promotion of logo on home page	Presence in SA cup, banners, etc	-	All below	-
Bronze	Basic logo Presence on few places	Shoutout on social media/web	-	-	Introduction to all members	-
Supporter	-	Basic Shout out on social media/web	-	-	-	-



Logo Placements



*Each side is different

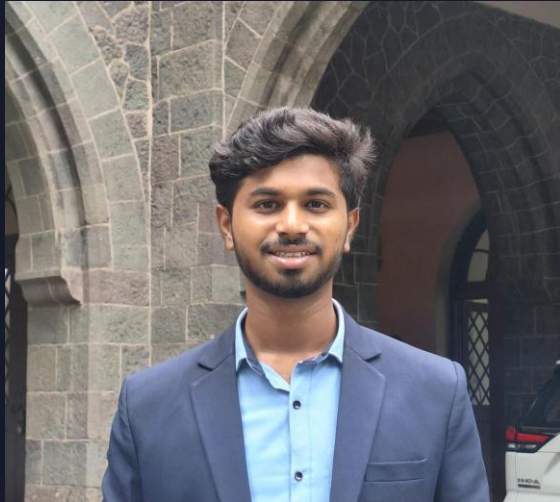


*Image for reference only





Team Leaders and Faculty Advisors



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