



## India's First Private Launch Vehicle

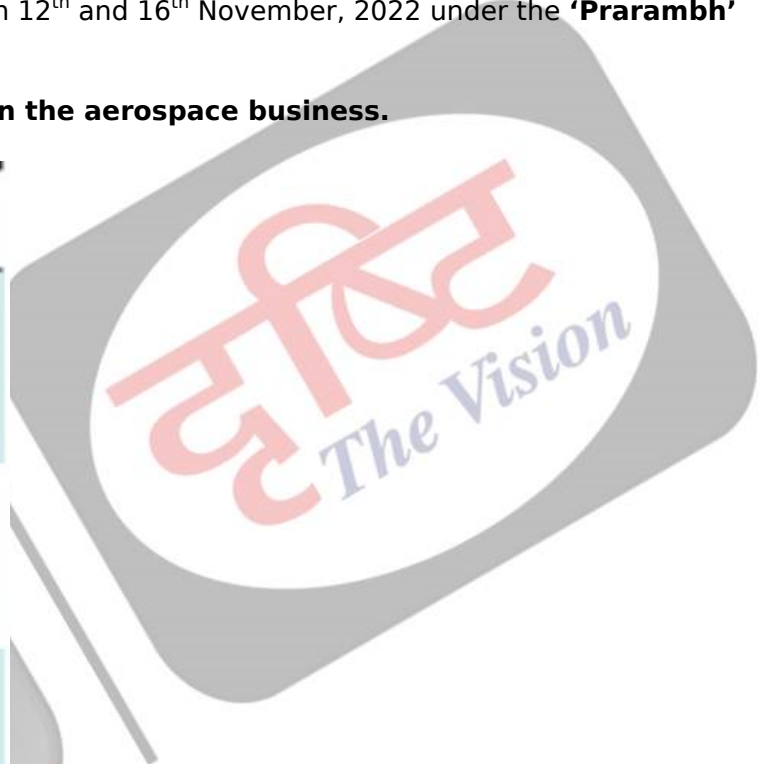
### Why in News?

Space technology startup Skyroot Aerospace is set to **make history by sending India's first privately developed rocket Vikram-S** into space between 12<sup>th</sup> and 16<sup>th</sup> November, 2022 under the '**Prarambh**' Mission.

- Skyroot Aerospace is an **Indian startup in the aerospace business.**

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- Skyroot Aerospace will launch Vikram-S between Nov 12 & 16 from Sriharikota
- It will carry three sats, including one **made by students of Space Kidz India**
- Rocket has got **technical launch nod** from IN-SPACE



### What is Vikram-S?

- The **Vikram-S rocket is a single-stage sub-orbital launch vehicle** which would carry three customer payloads.
  - Sub-orbital flight are those vehicles which are travelling slower than the orbital velocity - meaning it is fast enough to reach outer space but not fast enough to stay in an orbit around the Earth.
- It would **help test and validate the majority of the technologies in the Vikram series** of space launch vehicles.
  - Skyroot has been **working on three different Vikram rocket versions.**
  - The Vikram-I can launch with 480 kilograms of payload, whereas the Vikram-II is designed to do so with 595 kilos and Vikram-III has a 500 km Low Inclination Orbit launch capability with 815 kg.

### What is the Prarambh Mission?

- The Prarambh mission is **aimed at carrying three payloads into space**, including a

2.5-kilogram payload that has been developed by students from several countries.

- The Prarambh mission and the Vikram-S rocket were developed by the Hyderabad-based startup with extensive support from [Indian Space Research Organisation \(ISRO\)](#) and [IN-SPACe \(Indian National Space Promotion and Authorisation Centre\)](#).

[Source: IE](#)

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