



## Successful Test Firing of Vikram-1 Stage-2

[Source: TH](#)

Skyroot Aerospace, a leading Indian space-tech company, achieved a significant milestone with the **successful test firing of Stage-2 of the Vikram-1 space launch vehicle**, known as Kalam-250, at [Indian Space Research Organisation \(ISRO\)](#)'s propulsion testbed in **Sriharikota, Andhra Pradesh**.

- Stage 2 plays a crucial role in transitioning the launch vehicle from the atmospheric phase to the deep vacuum of outer space, propelling it toward its destination with **precision and efficiency**.
- Kalam-250 utilises a high-strength carbon composite rocket motor with solid fuel and a high-performance **Ethylene-Propylene-Diene terpolymers (EPDM)** Thermal Protection System (TPS). It also features a carbon ablative flex **nozzle for precise thrust vector control**.
- **Vikram-1 marks India's first private orbital rocket launch**, following the suborbital space launch of Vikram-S in November 2022. It demonstrates India's progressing capabilities in space technology and exploration.

**Read more:** [India's First Private Launch Vehicle](#)

PDF Reference URL: <https://www.drishtiias.com/printpdf/successful-test-firing-of-vikram-1-stage-2>