



## India's First 3D-Printed Rocket Launched

[Source: TH](#)

Recently Chennai-based start-up **Agnikul Cosmos** has launched the world's first rocket, **Agnibaan Sub Orbital Technology Demonstrator (SOrTeD)**, powered by a fully 3D-printed engine.

- It aims to **conduct a test flight** to showcase the company's internally developed technologies and **gather important flight data**.
- This has achieved several firsts for the Indian space ecosystem i.e. launch from a private pad (**Dhanush**), homegrown **semi-cryo engine-powered rocket launch and the world's 1<sup>st</sup> single-piece 3D printed engine**.
  - It uses **liquid oxygen and kerosene as propellant**.
- Launch was supported by the [Indian Space Research Organisation \(ISRO\)](#) and the [Indian National Space Promotion and Authorisation Centre \(IN-SPACe\)](#).

### 3D Printing:

- 3D printing is also known as **additive manufacturing** which uses materials such as plastics and metals to **convert products envisaged on computer-aided design** to real three-dimensional items.
  - It is the **opposite of subtractive manufacturing** which is cutting out/hollowing out a piece of metal or plastic with, for instance, a milling machine.



**Read more:** [Agnibaan SubOrbital Technological Demonstrator \(SOrTeD\)](#)

PDF Refernece URL: <https://www.drishtias.com/printpdf/india-s-first-3d-printed-rocket-launched>

