



India Adopts CubeSat Standard

[Source: LM](#)

Recently, India adopted the **global CubeSat standard**, marking a significant step in its ambition to enhance its footprint in the [global space economy](#).

- **CubeSat:**
 - **CubeSat standards** define a modular satellite framework (**1 unit (U) = 10 cm³, ≤1.33 kg**) compatible with standard deployers, requiring uniform dimensions, low-outgassing materials, kill switches, and rigorous testing.
 - The standard CubeSat size uses a “**one unit**” or “**1U**” measuring **10x10x10 cms** and is extendable to larger sizes like **1.5, 2, 3, 6, and even 12U**.
- The [Bureau of Indian Standards](#) (an arm of the [Department of Consumer Affairs](#)), helps educational and research organisations **develop CubeSats with commercial components**, offering a cost-effective satellite alternative.
 - **Examples:** Indian universities, with [ISRO support](#), have launched several student-built satellites. Notable examples like [JUGNU \(IIT Kanpur\)](#) and [KalamSAT](#) (Space Kidz India).
- **India's Space Sector:**
 - India's **space economy**, currently at **USD 8 billion**, aims to reach **USD 100 billion by 2040**
 - The government is opening the space sector to private companies and has earmarked a **Rs 1,000 crore [venture capital fund](#)** to stimulate growth and innovation.
 - Under the [amended FDI policy](#), **100% FDI is allowed** in the space sector.

Read More: [INSPIRESAT-1 Cubesat Satellite](#)

PDF Reference URL: <https://www.drishtiias.com/printpdf/india-adopts-cubesat-standard>