

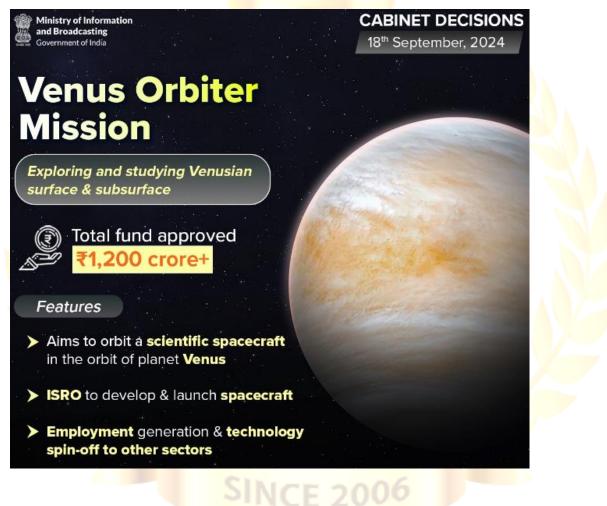
# **VENUS ORBITER MISSION : SCIENCE & TECHNOLOGY**

NEWS : After Moon and Mars, India sights science goals on Venus

## WHAT'S IN THE NEWS ?

Cabinet approves mission to Venus for scientific exploration and for better understanding of Venusian atmosphere, geology and generate large amount of science data probing into its thick atmosphere

India's Venus Orbiter Mission (VOM): Key Highlights



### **Mission Overview**:

- ISRO's Venus Orbiter Mission (VOM) will send a spacecraft to orbit Venus for in-depth scientific research.
- Launch Date: Planned for March 2028.
- **Cost**: Rs. 1236 crore; Rs. 824 crore for spacecraft, payloads, ground support, and launch vehicle.

## **Objectives**:

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- Study Venus's surface and subsurface.
- Analyze its atmosphere and solar activity effects.
- Understand Venus's evolution, including potential past habitability.

#### **Benefits**:

- Scientific: Insights into Venus's geology and atmosphere.
- **Technological**: Enhances India's space technology.
- Economic: Boosts job creation and tech development.
- Educational: Engages academic institutions, offering training for students.

Future: Prepares for advanced planetary missions.

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