

# Mars Orbital Mission (MOM)

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## What is MOM?

- The Mars Orbiter Mission (MOM), also **called Mangalyaan** ("Mars-craft", from mangala, Mars and yana, craft) is a space probe orbiting Mars since 24 September 2014. It was launched on 5 November 2013 by the Indian Space Research Organisation (**ISRO**).
- It is **India's first** interplanetary mission and it **made the fourth space agency** to reach Mars, after Roscosmos, NASA, and the European Space Agency.
- It made India the **first Asian nation** to reach Martian orbit and the first nation in the world to do so on its maiden attempt.
- Mars Orbiter Mission was launched with the help of the Polar Satellite Launch Vehicle (**PSLV) C-25**.

## Mars Orbiter Mission – Objective of the Mangalyaan Mission

The **4 Primary Objectives** of the Mars Orbiter Mission are listed below.

- Study of Martian atmosphere
- Study of Martian Surface Features
- Morphology
- Mineralogy.

## Mars Orbiter Mission (MOM) / Mangalyaan – Scientific Payloads

The MOM mission is primarily a technological mission to study various aspects of Mars. Hence the Mangalyaan mission carried **5 different scientific payloads** which are listed below

- Mars Color Camera (MCC)
- Methane Sensor for Mars (MSM)
- Lyman Alpha Photometer (LAP)
- Thermal Infrared Imaging Spectrometer (TIS)

- Mars Exospheric Neutral Composition Analyser (MENCA)