



KAMARAJ IAS ACADEMY
Only IAS Academy by Grandson of "Perunthalaivar Kamarajar"

Mangalyaan

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Why is in news? With drained battery and no fuel, Mangalyaan bids adieu

The Mars Orbiter Mission (MOM), also called Mangalyaan was a space probe orbiting Mars since 24 September 2014.

It was launched on **5 November 2013** by the Indian Space Research Organisation (ISRO) aimed at **studying Martian atmosphere**.

It is **India's first interplanetary mission** and it made it the **fourth space agency to achieve Mars orbit**, 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**.

MOM was launched aboard **PSLV C-25** (an XL version of the PSLV), one of the world's best and reliable launch vehicles.

The mission's primary objective is to develop technologies required in planning, designing, management and operations of an interplanetary mission.

The secondary objective is to explore Martian surface features, mineralogy, morphology and atmosphere using indigenous scientific instruments.

Learnings: Helped India's space agency **prepare a Martian Atlas** based on the images provided by the orbiter, **Dust storms on the Martian** can rise up to hundreds of kilometres. The MOM is the **only Martian artificial satellite that could image the full disc of Mars** in one view frame and also image the far side of Deimos. The data from MOM has helped produced 23 publications in peer-reviewed journals.

Right now, **there is no fuel left. The satellite battery has drained**," a source in the Indian Space Research Organisation (ISRO) said. "The link has been lost." There was, however, no official word from the country's national space agency.

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