

INDIA'S MARS ORBITER MISSION / MANGALYAAN

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GUIDEFORMATHS

Below is all the important information about India's Mars Orbiter Mission ([Mangalyaan](#)). So have a look at it and proud to be an Indian.

1. The Mars Orbiter Mission (MOM), also called as Mangalyaan (Mangalyan is an unofficial name)
2. This program is run by ISRO (Indian Space Research Organization)
3. Manufactured by Indian Space Research Organisation Satellite Centre (ISAC)
4. Launched into Earth orbit on **5th November 2013**.
5. It was launched from Sriharikota in Andhra Pradesh.
6. This project is aimed as a "technology demonstrator". It will showcase and prove the capability for interplanetary missions
7. The launch was made using PSLV-XL C25 rocket
8. The orbiter will have a life of 6 to 10 months in the orbit
9. While orbiting Mars the orbiter will study surface features, minerals and atmosphere on Mars
10. **There are 5 main instruments on the orbiter:**
 - a. Lyman-Alpha Photometer (LAP)
 - b. Methane Sensor For Mars (MSM)
 - c. Mars Exospheric Neutral Composition Analyser (MENCA)
 - d. Thermal Infrared Imaging Spectrometer (TIS)
 - e. Mars Colour Camera (MCC)
11. It was successfully inserted into orbit of Mars on **24 September 2014**.
12. **India the first Asian nation to reach Mars orbit.**
13. The Mars Orbiter Mission was achieved on a budget of **\$74 million**, nearly a tenth of the amount the US space agency NASA spent on sending the Maven spacecraft to Mars.

Team Members Worked on Mars Mission(Mangalyaan)

1. K Radhakrishnan Chairman of ISRO, secretary in department of space. Responsible for leading the mission and overall activities of Isro.
2. M Annadurai Programme director, Mars Orbiter Mission Responsible for budget management, direction for spacecraft configuration, schedule and resources.
3. S Ramakrishnan Director of Vikram Sarabhai Space Centre and Member Launch Authorisation Board. Responsible for realising the rocket (Polar Satellite Launch Vehicle) that would ferry the Mars orbiter.

4. SK Shivakumar Director, Isro Satellite Centre. Responsible for developing satellite technology and implementing satellite systems for scientific, technological and application missions.
5. P Kunhikrishnan Project director, PSLV programme; ninth time as mission director. Responsible for seeing the rocket completes its mission successfully and that the satellite is correctly injected in the designated orbit.
6. Chandradathan Director, Liquid Propulsion system. Made rich contribution to the realisation of solid motors for sounding rockets.
7. AS Kiran Kumar Director, Satellite Application Centre Responsible for designing and building three of the orbiter payloads - Mars Colour Camera, Methane Sensor and Thermal Infrared Imaging Spectrometer.
8. MYS Prasad Director, Satish Dhawan Space Centre, Chairman, Launch Authorisation Board Responsible for range safety and schedules, overall incharge at rocket port.
9. S Arunan Project director, Mars Orbiter Mission. Responsible for leading a team to build the spacecraft.
10. B Jayakumar Associate project director, PSLV project Responsible for the rocket systems, testing till the final lift-off.
11. MS Pannirselvam Chief general manager, range operation director at Sriharikota Rocket port. Responsible for maintaining launch schedules without any slippages.