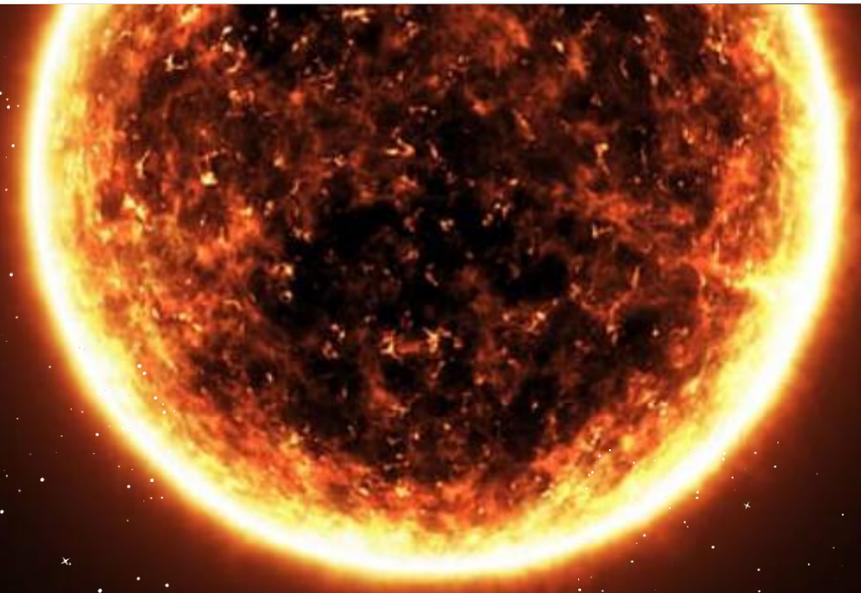
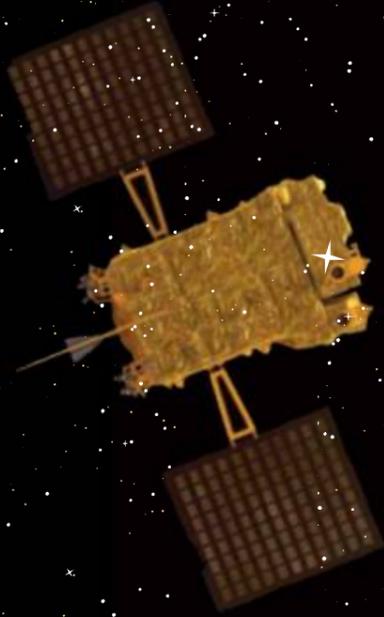


BEYOND EARTH: VOYAGE FROM MOON TO SUN

AUGUST'23



INDIA'S ADITYA-L1 MISSION: A BEACON OF INNOVATION AND ASPIRATION

India's Aditya-L1 Mission: A Beacon of Innovation and Aspiration

In the realm of space exploration, India is emerging as a formidable force, blending ambition, innovation, and resilience. The Indian Space Research Organisation (ISRO) has been nurturing its space dreams meticulously for decades, preparing itself to take a prominent position on the global stage, a domain once dominated by giants like NASA and the European Space Agency. The Aditya-L1 mission stands as a testament to India's growing prowess to carve out its niche in the cosmic theatre. Let's embark on a journey to understand the intricacies of this mission and its potential to reshape India's narrative in the global space community.

A Historic Journey

The Aditya-L1 Mission embarked on a groundbreaking voyage in September 2023, marking India's maiden attempt to study the sun. The spacecraft commenced its journey on September 2, 2023, circling Earth for 16 days as a prelude to its ambitious 1.5 million-kilometer voyage to the L1 point in the Sun-Earth system. Facilitated by the reliable PSLV-C57, the mission reaches a pivotal milestone on September 19, 2023, captivating the global scientific community and space enthusiasts with anticipation and pride.

The Satellite: Engineering Marvel

The Aditya-L1 satellite is a technological marvel, housing state-of-the-art instruments for deep solar exploration. Among its key tools is the Aditya Solar Wind Particle Experiment (ASPEX), capable of detecting directional protons and heavier ions. ASPEX holds the promise of unveiling intricate details about solar winds and their interactions with Earth's magnetosphere, potentially revolutionizing space weather understanding. The satellite also boasts high-resolution cameras and spectrometers for detailed imagery and data, designed to endure the harshness of space, ensuring prolonged operations and valuable data delivery.

India's Cosmic Odyssey: A Journey of Growth and Unity

India has methodically nurtured its space dreams, building knowledge and expertise over decades. The Aditya-L1 mission represents the culmination of years of planning and collaboration, symbolizing India's commitment to a new era of international research and cooperation. It holds a special place in the hearts of Indians, uniting them in a shared cosmic exploration dream.

A Global Challenger: India's Ascendant Space Role

With the Aditya-L1 mission, India asserts itself in the global space arena. By reaching the L1 point, previously the domain of NASA and the European Space Agency, India showcases a narrative of growth, resilience, and innovation. This mission is expected to catalyze further advancements in space technology, fostering international research and placing India firmly on the map as a formidable space player.

Humanizing Space Exploration: A Nation United in Aspiration

The Aditya-L1 mission transcends scientific pursuit; it reflects a nation's dreams and aspirations in the field of space science. Across India, families gather around screens, united in anticipation and pride as they witness the culmination of years of dedication and hard work. It inspires a new generation of thinkers and innovators eager to contribute to India's burgeoning legacy in space exploration. The mission brings together people from all walks of life, forging a shared narrative of hope, ambition, and relentless pursuit of knowledge. As the Aditya-L1 mission unfolds, it stands as a beacon of hope and a testament to human aspiration.

By- Raghav Lakhota

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"Success is not final, failure is not fatal: It is the courage to continue that counts" well said by Winston Churchill.

A failure should never stop one from creating history because that failure might give us insight that was needed the most but couldn't recognize earlier and India's moon mission, Chandrayaan -3 created history by accomplishing a "soft landing" on the moon's south pole surface on 23 August 2023 after the setback of the Chandrayaan-2 mission's landing failed in 2019. The word Chandrayaan is so apt for our spacecraft as the word Chandrayaan in Hindi and Sanskrit means "moon's vehicle".

India became the fourth country to land their lunar space probe and the first country to land it on the South Pole of the moon, a region that has never been explored. India now joins the United States, Russia and China as one of the few countries to land on the lunar surface.

Lessons were taken from Chandrayaan - 2 and were applied to Chandrayaan - 3 focusing on a failure-based approach to foresee and alleviate potential issues, changes were made like strengthening the lander's legs, increasing fuel reserves and enhancing landing site flexibility. Our prime minister, Narendra Modi rightly said, "This moment is unforgettable. It is phenomenal. This is a victory cry of a new India". India is now on the moon, it is a big achievement for our country in the field of science and technology and also a big step towards space exploration. Landing on the south pole of the moon will let our scientists find whether there is water ice on the moon as this is very important for the cumulative data and science on the geology of the moon.

This successful landing for our aircraft has not only created a proud moment for all of us but also gave a boost to space tech start-ups.

India is creating a legacy of success, creating a historic moment for all of us as a citizen of a country which has created an impact around the globe in just two decades is shocking for everyone, developed and to-be-developed countries. More such achievements are about to come shortly and like this, our scientists will leave the mark of achievements on the globe.

By- Mansi Bisht



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