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Chandrayaan 3

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Why is in news? Union Minister Dr. Jitendra Singh says, Chandrayaan 3 scheduled to be launched in July

- India's coveted Moon Mission Chandrayaan 3 is scheduled to be launched in July, most likely in the second half of the month.
- Chandrayaan-3 is **India's third moon mission** and is a follow-up of Chandrayaan-2 of July 2019, which **aimed to land a rover on the lunar South Pole.**
- Chandrayaan-3 is a **follow up mission to Chandrayaan-2 to demonstrate end-to-end capability in safe landing and roving on the lunar surface.**
- It consists of Lander and Rover configuration. It will be launched by LVM3 from Satish Dhawan Space Centre, Sriharikota.
- The subsequent failure of the Vikram lander led to the pursuit of another mission to demonstrate the landing capabilities needed for the Lunar Polar Exploration Mission proposed in partnership with Japan for 2024.

Objectives of Chandrayaan-3:

- To demonstrate Safe and Soft Landing on Lunar Surface
- To demonstrate Rover roving on the moon and
- To conduct in-situ scientific experiments.

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A look at the major differences between the two missions

CHANDRAYAAN - 1

CHANDRAYAAN - 2

Mission

- > India's first mission to moon
- > India's first deep-space mission, aims to devise a three-dimensional atlas

- > Follow-up mission to Chandrayaan-1
- > ISRO's first inter-planetary mission to land rover on any celestial body

Goals

Involves orbiting around moon

Involves orbiter, lander, and rover

Approx cost (Rs cr)

380

960

Launch vehicle

PSLV-C11

GSLV Mk-III

Operational for

312 Days

Approx 365 days

Net weight

1380 kgs

3290 kgs

Payloads (or study devices)

11
(built in India, USA, UK, Germany, Sweden & Bulgaria)

14
(13 Indian, 1 from NASA)

Major

To conduct scientific experiments using instruments on the spacecraft

Test new technology and conduct experiments on the moon



India is the 4th country to soft land rover on the surface of moon after Russia, US & China