

Moon Base Programme

August 13, 2026 • vajiramandravi.com



Moon Base Programme Latest News

NASA has formally invited India to join its Moon Base programme, which aims to establish a sustained human presence near the lunar South Pole.

About Moon Base Programme

- It is one of **NASA's** most ambitious programmes, which aims to **establish a sustained human presence near the lunar South Pole**.
- Moon Base is **humanity's first lunar outpost**, a place where **astronauts will live, work, and explore** near the **Moon's South Pole**, an area that was **first accessed by India's Chandrayaan-3 mission** in August **2023**.
 - The **South Pole** of the Moon is **important because of water ice in permanently shadowed regions**, its scientific value, and potentially useful lunar resources.
- Through a **series of crewed and uncrewed missions**, **NASA and its partners will build the infrastructure** needed to support a sustained human presence on the Moon, unlock new scientific

discoveries, and prepare for future exploration of Mars.

- The Moon Base will be built step by step using a **phased approach**.
- **Phase One (Now-2029): Gain Reliable Access, Experiment, and Learn**
 - **Robotic missions** will explore the lunar South Pole, **demonstrate new technologies**, and **gather the knowledge** needed to guide future development.
 - NASA will **identify promising locations** for future infrastructure, improve mission capabilities, and reduce risk before astronauts arrive.
- **Phase Two (2029-2032): Build and Expand**
 - Building on what is learned during Phase One, NASA will begin **deploying the first infrastructure** needed to support long-term operations on the Moon.
 - **Early power systems, cargo transportation, logistics, and communications** capabilities will expand humanity's footprint on the Moon and enable increasingly complex missions.
- **Phase Three (2032 and Beyond): Live and Work on the Moon**
 - With the Moon Base's foundational infrastructure in place, NASA will begin **assembling a permanent lunar outpost** where **astronauts can live and work** for extended periods.
 - Habitats, power systems, communications, transportation, and other critical capabilities will come together to **support an enduring human presence** near the Moon's South Pole.

News: TP

Source: <https://vajiramandravi.com/current-affairs/moon-base-programme/>

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