

## CHANDRAYAAN-2 SUCCESSFULLY ENTERS LUNAR TRANSFER TRAJECTORY

**Prelims:** Science & Technology- Space Technology

**Mains:** GS-III- Awareness in the fields of IT, Space, Computers, robotics, nano-technology, bio-technology and issues relating to intellectual property rights.

### Why in News?

- ▶▶ Chandrayaan-2 has successfully carried out the significant process of trans-lunar injection, moving from earth's orbit towards the moon.

### Highlights:

- ▶▶ Chandrayaan-2 is another step closer to the Moon and headed onwards on its path to the Moon. Chandrayaan-2 will approach the Moon on August 20 and finally land near the south pole of the Moon on September 7, 2019.
- ▶▶ Chandrayaan-2 will be entered into the Moon's orbit on August 20, 2019.
- ▶▶ After that, the spacecraft's liquid engine will be fired again to insert the Chandrayaan-2 into the lunar orbit.
- ▶▶ Once Chandrayaan-2 will enter into the Moon's orbit it will conduct four-orbit manoeuvres so that spacecraft could enter into the final orbit passing over the lunar poles at a distance of about 100 km from the Moon's surface.
- ▶▶ Following this, the spacecraft's lander, Vikram, is expected to soft-land on the south pole of the moon and unleash the rover to explore the surface on September 7.
- ▶▶ SRO released a statement that the health of the spacecraft is being continuously monitored from the Mission Operations Complex (MOX) at ISRO Telemetry, Tracking and Command Network (ISTRAC) in Bengaluru with support from Indian Deep Space Network (IDSN) antennas at Byalalu, near Bengaluru.
- ▶▶ The present health of the spacecraft is good and all systems onboard Chandrayaan-2 spacecraft are performing normally.