

DAILY PT POINTERS

24th February, 2024



HEADLINES OF THE DAY



The Hindu: Space(GSIII)-Page 6

ISRO: PAPA detects solar wind impact of coronal mass ejections

The Hindu Bureau
BENGALURU

The Indian Space Research Organisation (ISRO) on Friday said that the Plasma Analyser Package for Aditya (PAPA) payload on board the Aditya-L1 has detected the impact of coronal mass ejections (CMEs).

"Its advanced sensors have successfully detected the impact of CMEs, including those that occurred during February 10-11, 2024," ISRO said.

PAPA is an energy and mass analyser designed for in-situ measurements of solar wind electrons and ions in the low energy range. It has two sensors: the Solar Wind Electron Energy Probe (SWEEP, measuring electrons in the energy range of 10 eV to 3 keV) and the Solar Wind Ion Composition Analyser (SWICAR, measuring ions in the energy range of 10 eV to 25 keV and mass range of 1-60 amu). The sensors are also equipped to measure the direction of arrival of solar wind particles. The payload has been operational since December 12, 2023.

- The PAPA payload is developed by the Space Physics Laboratory and Avionics Entity of the Vikram Sarabhai Space Centre (VSSC)/ISRO.
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HEADLINES OF THE DAY



The Hindu:Governance(GSII)-Page 12

Centre amends surrogacy rules, allows couples to use donor gametes



- The Union government has modified the Surrogacy (Regulation) Rules, 2022 and notified that both gametes need not come from a married couple in case they are certified as suffering from a medical condition.
- As per the latest amendment, the couple can have a child born through surrogacy but must have at least one gamete from the intending couple.
- Also, single women (widow or divorcee) undergoing surrogacy must use self-eggs and donor sperm to avail surrogacy procedures.
- The District Medical Board can certify that either husband or wife constituting the intending couple suffers from a medical condition necessitating the use of donor gamete, then surrogacy using donor gamete is allowed subject to the condition.

HEADLINES OF THE DAY



The Hindu:GS 3/S&T

US achieves first moon landing in half century with private spacecraft Odysseus

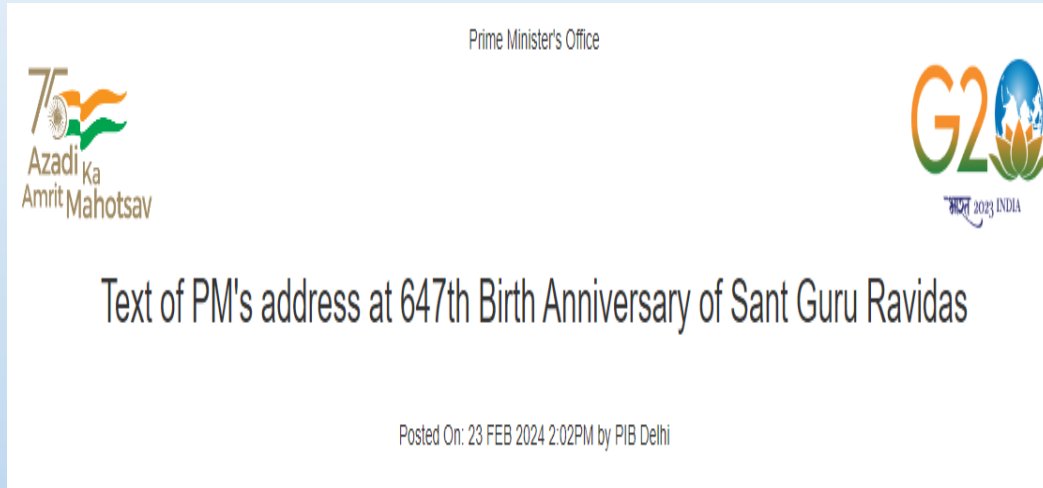
The landing, one day after the spacecraft reached lunar orbit and a week after its launch from Florida, was confirmed by signals beamed back some 239,000 miles (384,000 km) to mission control.

- Spacecraft Odysseus built and flown by Texas-based company Intuitive Machines landed near the south pole of the moon on Thursday, the first US touchdown on the lunar surface in more than half a century and the first ever achieved entirely by the private sector.
- The NASA payload will focus on collecting data on space weather interactions with the moon's surface, radio astronomy and other aspects of the lunar environment for future landers and NASA's planned return of astronauts later in the decade.

HEADLINES OF THE DAY



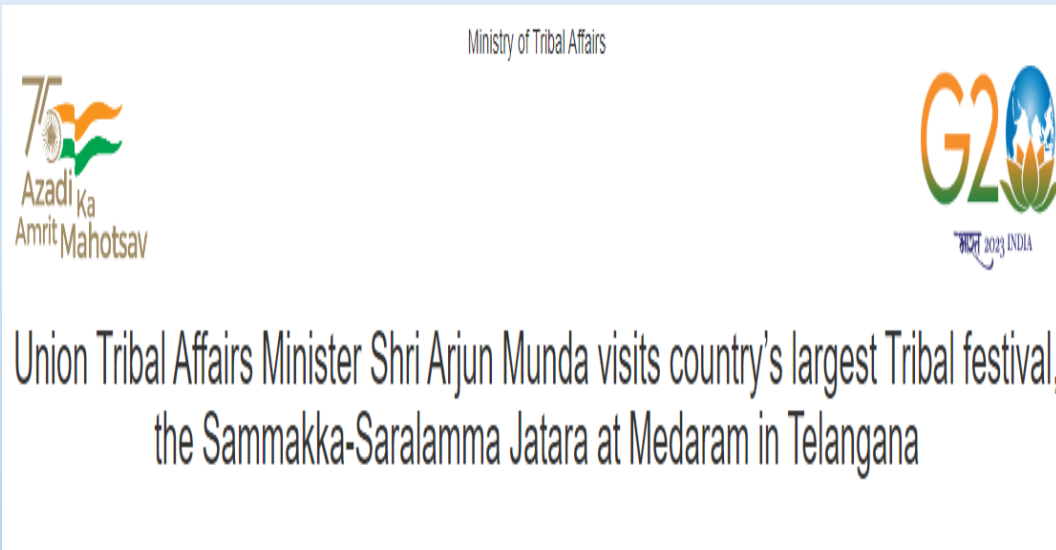
PIB:History(GSI)



- A great Saint, philosopher, poet, and social reformer of the 15th century, Guru Ravidas is well-known for his contributions to the Bhakti Movement.
- Guru Ravidas is popularly known by different names like Raidas, Rohidas, and Ruhidas. He was born in 1377 CE in Seer Govardhanpur in Uttar Pradesh. Since his birth, Guru Ravidas devoted his life to advocating for human rights and equality. He was a revered poet and a renowned philosopher. Notably, a few of his compositions were also included in Guru Granth Sahib Ji. His place of birth is now known as Shri Guru Ravidass Janam Asthan.
- He is one of the most famous personalities of the nirguna sampradaya (sant parampara) and was one of the prominent leaders of the North Indian Bhakti movement. He also became a symbol of opposition to untouchability in society by the higher caste people for lower caste people.

HEADLINES OF THE DAY

PIB:Art and Culture(GSI)



- **Sammakka Saralamma Jatara** or **Medaram Jatara** is a festival of honouring the goddesses celebrated in the state of Telangana, India. This Jatara is known for witnessing one of the largest people gatherings in the world.
- People offer Bangarm (jaggery)
- The rituals related to the Goddesses are entirely conducted by Koya tribe priests, in accordance with Koya customs and traditions.
- Jatara is celebrated during the time the goddesses of the tribals are believed to visit them. It is believed that after Kumbha Mela, the Medaram jatara attracts the largest number of devotees in the country. It is very Asia's largest tribal festival which is celebrated in telangana.
- The Sammakka Saralamma temple in Warangal was built during the 12th century.
- This temple has no mythological background relating to the construction of the temple; instead, it is believed to be built in the memory of two tribal women.