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**EN-BUZZER**

# Daily News Analysis

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**WEDNESDAY, 14th JANUARY 2026**

## **Table of Contents**

1. PSLV-C62 Mission.....	1
2. Pax Silica Initiative.....	2
3. Nipah Virus.....	3





## 1. PSLV-C62 Mission

### Prelims Perspective: What needs to be learned

- What is PSLV-C62 / EOS-N1 Mission
- What is the Polar Satellite Launch Vehicle (PSLV)?
- Orbits

### What needs to be known?

- **PSLV-C62 / EOS-N1 Mission**
  - **What is PSLV-C62?** It is the 64th flight of India's PSLV aimed at launching the EOS-N1.
  - **What is EOS-N1 Mission:** EOS-N1 is an Earth observation satellite intended for environmental monitoring, resource mapping, and disaster management.
- **Polar Satellite Launch Vehicle (PSLV)**
  - **What is it?** It is a four-stage, medium-lift launch vehicle developed by ISRO to place satellites primarily into polar and sun-synchronous orbits (SSO)
  - **Major Mission**
    - ★ Chandrayaan-1 (2008) – India's first lunar mission
    - ★ Mars Orbiter Mission – Mangalyaan (2013)
    - ★ Cartosat, RISAT, Oceansat series

### Satellite Orbits and Uses

- **Low Earth Orbit (LEO):** Earth observation, Remote sensing, Weather monitoring, and Space stations.
- **Geostationary Orbit (GEO):** Communication, TV broadcasting, Weather satellites.
- **Polar Orbit:** Used for remote sensing & mapping
- **Sun-Synchronous Orbit (SSO):** Ideal for environmental monitoring





## 2. Pax Silica Initiative

### Prelims Perspective: What needs to be learned?

- What is the Pax Silica Initiative?
- Member Countries

### Mains Perspective: Notes need to be prepared

- Groupings & Agreements Involving India (GS II- International Relations)

### What needs to be known?

- **Pax Silica Initiative**
  - **What is it?:** Pax Silica is a US-led strategic initiative to build a secure, prosperous, and innovation-driven silicon supply chain from critical minerals.
  - **Objective:** To reduce coercive dependencies, protect the materials and capabilities foundational to artificial intelligence, and ensure aligned nations can develop and deploy transformative technologies at scale.
  - **Countries:** US, Japan, South Korea, Singapore, Netherlands, United Kingdom, Israel, UAE, Australia, Qatar.



### 3. Nipah Virus

#### Prelims Perspective: What needs to be learned?

- What is the Nipah Virus?
- What are zoonotic diseases?

#### Mains Perspective: Notes need to be prepared

- Health (GS II- Social Justice)
- Diseases (GS III - Science and Technology)

#### What needs to be known?

- Nipah Virus
  - **What is it?**: It is a zoonotic disease hosted by Fruit Bats.
  - **Transmission**
    - ★ **Animal-to-human**: From infected bats or pigs through secretions or contaminated fruit (sap, partially eaten fruits).
    - ★ **Human-to-human**: Through close contact with body fluids of infected persons, especially in hospital settings (nosocomial transmission).
    - ★ **Environment-to-human**: Contaminated surfaces or food items (e.g., raw date palm sap).
  - **Diagnosis Tests**: Real-Time PCR (RT-PCR), ELISA for antibodies (IgM, IgG)
  - **Treatment**
    - ★ No specific antiviral drug or vaccine yet (for humans or animals).
    - ★ Only ensure supportive care.