

# **Spardhaguru India Private Limited**

**Environmental Science & Other Innovations** 

# **10 Years of Excellence**



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# **Environmental Science & Other Innovations:**

#### **Environmental Science**

NASA-ISRO Satellite Milestone: The joint NASA-ISRO Earth-observing satellite, NISAR (NASA-ISRO Synthetic Aperture Radar), successfully deployed its 12-meter-diameter radar antenna reflector in orbit. This marks a critical step toward the mission's goal of precisely measuring Earth's changing surface, including glacial movement, seismic activity, and ecosystem changes.

Plastic Pollution Treaty Talks: Negotiations for a legally binding global treaty to end plastic pollution have adjourned in Geneva without a final agreement. However, participating countries have expressed a desire to continue discussions at a future date.

Air Quality Warnings: A new study from Indonesia has raised concerns about the public health risks associated with a waste-to-energy plant in East Java. Monitoring revealed that the plant's emissions frequently breached safety limits for fine and coarse particulate matter.

Blue Whale Research: Recent reports of blue whales "falling silent" off the coast of California have been found to be exaggerated. A study revealed that the whales sang less during a marine heatwave but have since resumed their normal vocal patterns.

### Other Innovations

**Robotics in Manufacturing:** At the World Robot Conference in Beijing, Zoomlion Heavy Industry showcased its latest innovations in industrial

and humanoid robotics. The company is using AI-powered robots in its "Smart Industry City" to achieve high-mix, low-volume production.

**Bio-based Electrolytes:** An eco-friendly electrolyte platform made from cellulose, called BioCell Green, won a Gold Award at a recent exhibition. The product, developed at Universiti Teknologi Malaysia, replaces conventional, toxic electrolytes with a bio-derived, non-flammable system.

Circular Economy: A company called Constantia Flexibles announced an investment of over €100 million in its facilities to expand its portfolio of sustainable packaging solutions. This includes fully recyclable materials and the use of low-carbon aluminum.

India's Self-Reliance Push: In his Independence Day speech, Prime Minister Narendra Modi stressed the need for India to become self-reliant in critical minerals like lithium and rare earth elements, which are vital for clean energy technologies like electric vehicles and solar power. He also urged for self-reliance in fertilizer production to reduce import dependence.

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A. It is contaminating local water sources.

B. Its emissions frequently breached safety limits for fine and coarse particulate matter.

C. It is causing an increase in noise pollution.

D. It is disrupting the local ecosystem's biodiversity.

#### Answer: B

The news reports that a study in Indonesia raised concerns because the waste-to-energy plant's "emissions frequently breached safety limits for fine and coarse particulate matter."

# Q3. What is a key objective of India's push for self-reliance in critical minerals?

A. To reduce the cost of traditional fossil fuels.

B. To improve the country's defense capabilities.

C. To support clean energy technologies like electric vehicles and solar power.

D. To boost the import of raw materials.

#### Answer: C

The news highlights that Prime Minister Narendra Modi stressed the need for India to become self-reliant in critical minerals because they are "vital for clean energy technologies like electric vehicles and solar power."

# Q4. What is the name of the eco-friendly electrolyte platform made from cellulose that won a Gold Award?

A. GreenVolt

B. BioCell Green

C. Eco-Electrolyte

D. Cellu-Power

# Answer: B

The news states that an eco-friendly electrolyte platform made from cellulose, called "BioCell Green," won a Gold Award.

# **MCQS**

- Q1. What is the name of the joint NASA-ISRO satellite that successfully deployed its 12meter-diameter radar antenna reflector?
- A. Chandrayaan-3
- B. NISAR
- C. Mangalyaan
- D. Sentinel-6

#### Answer: B

The news states that the joint NASA-ISRO Earthobserving satellite is called "NISAR," which stands for NASA-ISRO Synthetic Aperture Radar.

Q2. According to a study from Indonesia, what is a public health concern related to a waste-toenergy plant in East Java?

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Q5. At the World Robot Conference in Beijing, what specific manufacturing strategy is Zoomlion Heavy Industry using AI-powered robots to achieve in its "Smart Industry City"?

- A. Mass production of a single product.
- B. High-mix, low-volume production.
- C. Manual assembly with robotic assistance.
- D. Outsourcing all manufacturing to other countries.

#### Answer: B

The news states that Zoomlion Heavy Industry is using AI-powered robots in its "Smart Industry City" to "achieve high-mix, low-volume production."



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