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# Daily Current Affairs Encyclopedia

# 10 April 2024

# **National and International News**

#### TSAT-1A



#### Context:

- Tata Advanced Systems Ltd (TASL) in Partnership with Satellogic Launches India's First Privately-Built Sub-Metre Resolution Surveillance Satellite.
- TASL, in collaboration with **Satellogic**, has successfully launched TSAT-1A, India's first privately-built sub-metre resolution surveillance satellite. This marks a significant achievement in India's space capabilities.

#### Launch Details:

- TSAT-1A was launched from the **Kennedy Space** Center, Florida, aboard SpaceX Falcon 9 rocket on April 7.
- It was assembled at TASL's Vemagal facility in Karnataka.

### **Technical Specifications:**

- TSAT-1A offers high-resolution optical satellite **imagery** with multispectral and hyperspectral capabilities.
- It boasts a **sub-metre resolution** (0.5-0.8 meters natively) which can be enhanced to 0.5 to 0.6-meter super resolution using software.
- Weighing less than 50 kg, it is positioned in low-earth orbit, enabling increased collection capacity and low-latency delivery of satellite images.

## **Key points:**

- TSAT-1A aims to cater primarily to government agencies, including the Indian armed forces, with plans to extend services to commercial clients.
- Its inclined orbit allows for frequent revisits to areas of interest, enhancing surveillance capabilities.
- TASL aims to expand its capabilities in the space sector by focusing on assembly, integration, and testing of satellites, data processing, and satellite control centers.
- Collaboration with ISRO for future launches is also envisioned.





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Right against adverse effect of climate change part of right to life, equality

#### Context:

 The Supreme Court has broadened the scope of Articles 14 and 21 to encompass the "right against the adverse effects of climate change."

### **Background of the Case:**

- A plea was filed to protect the Great Indian Bustard (GIB) from habitat loss due to power transmission lines.
- On April 19, 2021, the Supreme Court ordered restrictions on overhead transmission lines and suggested their conversion to underground lines.
- Ministries of Environment, Forests, Power, and New and Renewable Energy sought modifications citing international commitments on renewable energy and technical challenges.

#### **Court's Decision:**

- Acknowledged practical difficulties in implementing the order due to technical challenges, land acquisition, and costs.
- Emphasized the importance of renewable energy, particularly solar power, and the need to balance GIB conservation with overall environmental preservation.

# Formation of Expert Committee:

- Established a nine-member committee to assess the feasibility of undergrounding power lines in specific areas, considering factors like terrain, population density, and infrastructure.
- The committee was instructed to submit a report by July 31, 2024, through the Union Government.

#### Lack of Specific Legislation:

- Despite various governmental policies recognizing climate change, there's no comprehensive legislation in India addressing it.
- People still have a right against the adverse effects of climate change.

#### Impact on Right to Life and Health:

- A clean environment is crucial for fully realizing the right to life.
- Climate change affects health through factors like air pollution, diseases, droughts, and food shortages.
- Inability to cope with climate change violates both the right to life and the right to equality for underserved communities.

## **Ruling by the Supreme Court:**

Expanded the scope of Articles 14 and 21 to include the





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"right against the adverse	effects of climate change."
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# **Constitutional Provisions:**

- Article 48A emphasizes the State's responsibility to protect and improve the environment.
- Article 51A(g) mandates citizens to protect and improve the natural environment.
- While not directly enforceable, these provisions indicate the Constitution's recognition of the importance of the natural world.

### **Interpretation of Articles 14 and 21:**

- Article 21 recognizes the right to life and personal liberty.
- Article 14 ensures equality before the law.
- These articles are seen as sources of the right to a clean environment and protection against climate change effects.

#### **ANTI DUMPING**

#### Context:

The Directorate General of Trade Remedies (DGTR)
has recommended imposing anti-dumping duty on
sodium cyanide (NaCN) imports from China, the
European Union, Japan, and Korea.

## **Key points:**

- Anti-dumping duty is imposed on imported goods when they are sold at a lower price than their normal value, causing injury to producers of competing products in the importing country.
- The purpose of this duty is to rectify the trade distortions caused by dumping and to re-establish fair trade.

## **DGTR:**

- The DGTR is an Indian government organization that handles trade issues, including unfair trade practices and subsidies that harm Indian businesses.
- It was formed in 2018 by merging several trade-related directorates.
- The DGTR operates under the Department of Commerce, Ministry of Commerce & Industry, and is responsible for dealing with anti-dumping and countervailing duty (CVD) cases, safeguard measures, and providing trade defense support to domestic industries and exporters.

#### NaCN:

- Sodium cyanide (NaCN) is a toxic compound used in various industries.
- It is a white, water-soluble solid with a high affinity



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	for metals, making it highly toxic.  Its main application is in gold mining, where its reactivity toward metals is exploited.
Glycaemic Index	Context:  • A recent international study suggests that adhering to diets with a low glycaemic index (GI) and low glycaemic load (GL) may help prevent the onset of type 2 diabetes.
	<ul> <li>About: Glycaemic Index (GI): <ul> <li>GI ranks carbohydrate-containing foods based on their post-meal blood glucose response.</li> <li>Foods are ranked on a scale of 0 to 100, with pure glucose having a value of 100.</li> <li>The lower a food's GI, the slower it raises blood sugar levels.</li> <li>Foods high in fiber or fat typically have a lower GI, while processed foods tend to have a higher GI.</li> </ul> </li> </ul>
	<ul> <li>Glycaemic Load (GL):         <ul> <li>GL considers both the quality and quantity of carbohydrates in a specific food.</li> <li>It is the product of the GI and the amount of carbohydrate in a serving.</li> </ul> </li> </ul>
	<ul> <li>Types of Diabetes:         <ul> <li>Diabetes is a chronic disease caused by either the pancreas not producing enough insulin or the body not effectively using the insulin it produces.</li> <li>Type 1 Diabetes: This autoimmune condition involves the immune system attacking insulin-producing beta cells in the pancreas, resulting in little to no insulin production. It is often diagnosed in children and young adults.</li> <li>Type 2 Diabetes: This type is primarily caused by the body's ineffective use of the insulin it produces, often due to excess body weight and physical inactivity.</li> </ul> </li> </ul>







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