

# Daily Current Affairs Encyclopedia



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# 10 April 2024

# **National & 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, collaborating 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 the 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 the 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 the adverse effect of climate change is part of the right to life, and 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 through** the Union Government by July 31, 2024.

### 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 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 "right against the adverse effects of climate change."



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Const	titutional	Provisi	ons

- **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 for metals, making it highly toxic.
- Its main application is in **gold mining**, where its reactivity toward metals is exploited.



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# 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.

### About:

### Glycaemic Index (GI):

- GI ranks carbohydrate-containing foods based on their post-meal blood glucose response.
- Foods are ranked on a scale of 0 to 100, with pure glucose having a value of 100.
- The lower a food's GI, the slower it raises blood sugar levels.
- Foods high in fiber or fat typically have a lower GI, while processed foods tend to have a higher GI.

### Glycaemic Load (GL):

- GL considers both the quality and quantity carbohydrates in a specific food.
- It is the product of the GI and the amount of carbohydrate in a serving.

## Types of Diabetes:

- Diabetes is a chronic disease caused by either the pancreas not producing enough insulin or the body not effectively using the insulin it produces.
- 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.
- 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.

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