

Current Affairs search results for tag: national

1. Romania unveils world's most powerful laser (April 6, 2024)

Developed by a research center in Romania as part of the EU Infrastructure Extreme Light Infrastructure (ELI) project.

An Overview of the News

- Operated by French company Thales, this laser claims to have revolutionary potential in a variety of fields, from healthcare to space exploration.
- At the core of this groundbreaking laser technology lies chirped-pulse amplification (CPA), a method developed by Mourou and Strickland.
- CPA facilitates the amplification of laser power while ensuring safe intensity levels by stretching and compressing the ultra-short laser pulse.
- This innovative technology achieves unprecedented levels of intensity, opening the door to myriad applications such as corrective eye surgery and advanced precision instruments in industrial operations.

Nobel Prize Winner Contribution:

- Gerard Mourou and Donna Strickland were awarded the Nobel Prize in Physics in 2018 for their pioneering work in laser technology.
- His inventions have led to revolutionary advancements by enabling precision instruments and applications.

Possible Applications:

- Nuclear waste treatment: Laser technology can reduce the radioactivity period of nuclear waste, increasing the safety and manageability of disposal.
- Space debris removal: Laser technology can be deployed to clear space debris, reducing the risk of collisions with satellites and spacecraft.
- Medical Advances: The precision of lasers promises breakthroughs in medical treatments, including targeted cancer treatments and advanced surgical techniques.

Involvement of the ELI Project and Thales Group:

- Part of the European Union Infrastructure Extreme Light Infrastructure (ELI) project, which aims to push laser technology boundaries.
- Operated by Thales Group, a leading global provider of aerospace, defense and security solutions, headquartered in France.

2. Unprecedented Recognition: Over 60 Products GI Tags (April 5, 2024)

The Geographical Indication (GI) tag has been awarded to over 60 products from different parts of India.

An Overview of the News:

- This is the first time that so many products have been recognized at the same time for Geographical Indication (GI) purposes.
- The prestigious Geographical Indication (GI) label has been awarded to nineteen traditional Assamese items and crafts, thirteen of which are credited to the Bodo community.

Name of the Select 60 Products that Were Awarded GI Tags:

- Assam: Mishing handloom products, Pani Meteka crafts, Sarthebari metal crafts, Jaapi (bamboo headpiece), Asharikandi terracotta crafts, Bodo Eri silk (fabric of peace or ahimsa), Bihu dhol, Bodo Dokhona (traditional attire of Bodo women), and Bodo Sifung (long flute).
- Tripura: Matabari Peda (a sweet delicacy) and Pachra-Rignai (traditional attire worn on auspicious occasions).
- Meghalaya: Chubitchi, Lyrnai Pottery, Garo Textile Weaving.
- Uttar Pradesh: Banaras Lal Bharwan Mirch, Banaras Lal Peda, Banaras Tabla, Banaras Shehnai, Banaras Thandai.

A GI tag: what is it?

- A GI tag is a designation or label that identifies goods as coming from a particular region and highlights their distinctive features.
- Protected by the Geographical Indications of Goods (Registration and Protection) Act, 1999.
- it gives owners of rights the ability to stop unapproved usage by noncompliant third parties

Key fact about GI tag:

- In 2004, the Darjeeling tea from West bengal received the first-ever GI tag in India.

3. Egyptian President Abdel Fattah al-Sisi Sworn in for Third Term (April 4, 2024)

Abdel Fattah el-Sisi was sworn in for his third term as Egypt's president in the country's new capital.

An Overview of the News

- Sisi won the December election by a wide margin, winning 89.6% of the vote without any significant competition.

Economic Reforms and Financial Assistance:

- Egypt allowed its currency to devalue after securing a \$35 billion lifeline from the Emirati Wealth Fund, eliminating chronic currency shortages.
- A commitment to reforms, including reducing state interference in trade, facilitated an expanded \$8 billion deal with the IMF.

Military-led infrastructure projects:

- Since 2014, Egypt has undertaken extensive infrastructure development, primarily led by the military.
- These projects aim to promote economic growth and accommodate population growth, with the \$58 billion New Administrative Capital Project being the largest.

Criticism of mega-projects:

- Critics argue that these projects increase economic challenges by diverting resources and increasing the national debt.
- Projects such as the Suez Canal expansion and new cities have faced scrutiny for their impact on Egypt's financial stability.

Global role amid regional crisis:

- Egypt's involvement in the Gaza crisis has enhanced its global reputation, serving as the primary aid vehicle and mediator for ceasefire talks.
- Sisi came to power in 2013 after ousting Mohammed Morsi, underscoring his background as a former intelligence general.

Human rights concerns and government response:

- Rights groups estimate that thousands of people, including activists and Islamists, have been detained since Morsi's ouster.
- Sisi's administration defends these actions, emphasizing stability and security while promising efforts toward providing social rights such as housing and employment.

4. Senior Congress leader Sonia Gandhi took Oath as Rajya Sabha MP (April 4, 2024)

Prominent Congress leader Sonia Gandhi took oath as Rajya Sabha member on April 4, 2024.

An Overview of the News

- After the completion of the tenure of former Prime Minister Manmohan Singh on April 3, Sonia Gandhi secured her seat from Rajasthan.
- This is Sonia Gandhi's first term in the upper house of Parliament.

- Along with Sonia Gandhi, 13 other members took oath as ministers.
- Notable individuals who took the oath included former Congress and current BJP member RPN Singh, Railway Minister Ashwini Vaishnav, Congress leaders Ajay Maken and Syed Nasir Hussain from Karnataka and BJP member Samik Bhattacharya from West Bengal.
- Besides, YSRCP representatives Gola Babu Rao, Medha Raghunath Reddy and Yerum Venkata Subba Reddy also took oath.
- The oath ceremony was presided over by Rajya Sabha Chairman Jagdeep Dhankhar and was held at the new Parliament House.

About Sonia Gandhi

• Background:

- Sonia Gandhi, born on 9 December 1946, is an Indian politician and the longest-serving president of the Indian National Congress.
- He is from a small village near Vicenza, Italy and was raised in a Roman Catholic family.

• Political Career:

- Gandhi assumed the leadership of the Indian National Congress in 1998 after the assassination of her husband Rajiv Gandhi, the former Prime Minister of India.
- He held the position of party leader for 22 years until 2017, overseeing the Congress during a crucial period in Indian politics.
- After a short hiatus, Gandhi returned to the post of Congress president in 2019 and remained in the position for an additional three years.

5. President dedicates CAR-T cell therapy at IIT Bombay to the nation (April 4, 2024)

President Draupadi Murmu dedicated CAR-T cell therapy at IIT Bombay to the nation.

An Overview of the News

- CAR-T cell therapy, used in treating cancer patients, has been developed by IIT Bombay-incubated company ImmunoAdoptive Cell Therapy (ImmunoACT) in India.
- This therapy is the result of a collaborative effort between IIT Bombay and Tata Memorial Center (TMC).
- It has been designed and developed at IIT Bombay, with integrated process development and manufacturing conducted at ImmunoACT.
- Clinical investigations and translational studies were conducted by teams at TMH.
- It is expected that the CAR-T cell therapy product has the potential to save many lives at a much lower cost than similar products available outside India.

CAR T-cell therapy:

- It is a treatment method where a patient's T cells, a type of immune system cell, are modified in a laboratory setting to target cancer cells.
- T cells are extracted from the patient's blood, and in the lab, a gene for a specific receptor called a chimeric antigen receptor (CAR) is introduced into these T cells.
- The CAR enables the modified T cells to bind to a particular protein found on the patient's cancer cells.
- Following this modification, large quantities of CAR T cells are cultured in the laboratory and subsequently administered to the patient through infusion.
- This therapy is primarily employed in treating certain types of blood cancers, and ongoing research is exploring its potential for treating other forms of cancer.
- CAR T-cell therapy is also referred to as chimeric antigen receptor T-cell therapy.

6. Successful flight test of Agni-Prime missile (April 4, 2024)

Agni-Prime missile successfully flight tested in Odisha.

An Overview of the News

- The test was conducted jointly by the Strategic Force Command (SFC) and Defense Research and Development Organization (DRDO) from Dr APJ Abdul Kalam Island.
- The Defense Ministry said that the Agni-Prime missile met all the test objectives, demonstrating its reliable performance.

Introduction of Agni-P (Agni-Prime):

- Agni-P, also known as Agni-Prime, is a medium-range ballistic missile under development by India's Defence Research and Development Organisation (DRDO).
- It is the sixth missile in the Agni series and is designed to be a two-stage, surface-to-surface, canister-launched, and road-mobile system.

Purpose and Deployment:

- Agni-P is intended to be deployed within the Strategic Forces Command for operational use.
- Its development aims to enhance India's ballistic missile capabilities, particularly in the medium-range segment.

Key Features and Upgrades:

- The missile incorporates significant upgrades compared to its predecessors.
- These upgrades include advancements in the composite motor casing, navigation systems, and guidance systems.

Maneuverable Reentry Vehicle (MaRV):

- Agni-P is equipped with a maneuverable reentry vehicle (MaRV), enhancing its effectiveness in penetrating enemy defenses and accurately hitting targets.

Solid-Fueled Design:

- Agni-P utilizes solid fuel propulsion, ensuring reliability, mobility, and ease of deployment.

Canister Launch Capability:

- Its canister-launch system adds to its mobility and readiness, allowing for rapid deployment and launch from various platforms.

Strategic Significance:

- The development and deployment of Agni-P mark a significant advancement in India's strategic missile program.
- It strengthens India's deterrence capability and provides a credible response to evolving security challenges in the region.

7. Judith Suminwa Tuluka becomes the first female Prime Minister of the Democratic Republic of the Congo (April 4, 2024)

Judith Suminwa Tuluka has been appointed as Congo's first female Prime Minister under President Félix Tshisekedi on April 1, 2024, amid a political realignment following the resignation of Jean-Michel Sama Lukonde.

An Overview of the News:

- In January 2024, President Tshisekedi was sworn in for a second five-year term. After this Prime Minister Tuluka was appointed.

Constitutional Mobility:

- According to the Constitution of the DRC, the President cooperates with the Prime Minister, who is elected from the largest legislative party.

Challenges in the Democratic Republic of the Congo (DRC):

- The DRC, which is endowed with abundant natural resources such as copper, uranium, cobalt and diamonds, is struggling with ongoing violence and instability, particularly in its eastern provinces.
- The situation is worsened by tensions with neighboring Rwanda, which is accused of providing support to militia groups such as the March 23 Movement, which has led to mass displacement of civilians.

About the Democratic Republic of Congo:

- Central Africa is the second largest country in Africa after Algeria. Known as the Republic of Zaire until 1971, it gained independence from Belgium in 1960.
- Kinshasa, the capital, is located next to the Congo River, the second longest river in Africa after the Nile River.
- Congo is the only river in the world that crosses the equator twice.
- Its currency is the Congolese franc.

8. NHAI Implements 'One Vehicle, One FASTag' Norm (April 3, 2024)

The National Highways Authority of India (NHA) has initiated the 'One Vehicle, One FASTag' norm to address misuse of FASTags.

An Overview of the News

- This norm discourages the practice of using a single FASTag for multiple vehicles or linking multiple FASTags to a single vehicle.

Compliance Deadline Extension:

- NHAI extended the compliance deadline for the initiative until the end of March due to issues faced by Paytm FASTag users.

Effective Enforcement Date:

- Starting April 1st, 2024, multiple FASTags for a single vehicle will cease to function, and users with such setups won't be able to utilize them.

Objectives of the Initiative:

- NHAI aims to enhance the efficiency of electronic toll collection and ensure smooth traffic flow at toll plazas through the 'One Vehicle, One FASTag' initiative.

Overview of FASTag System:

- FASTag, operated by NHAI, is an electronic toll collection system widely adopted in India with over 8 crore users and a penetration rate of around 98%.
- It utilizes Radio Frequency Identification (RFID) technology for toll payments directly from linked prepaid or savings accounts or directly to the toll owner.

9. Romania and Bulgaria's Schengen Accession (April 1, 2024)

On March 31, Romania and Bulgaria formally joined, at least partially, Europe's visa-free Schengen travel area.

An Overview of the News

Statements from political leaders:

- Bulgarian Prime Minister Nikolay Denkov called the event a "big victory" for Bulgaria, emphasizing its historical significance.
- Despite his resignation, Denkov remains in office, highlighting the achievement as Bulgaria's "greatest success" since joining the EU.
- Deputy Prime Minister Maria Gabriel echoed this sentiment, calling it a "historic moment" with benefits for various sectors.
- Romanian Prime Minister Marcel Ciolacu qualified the achievement with plans for full Schengen accession by the end of the year.

European Commission Perspective

- European Commission President Ursula von der Leyen praised the development as a "great success" for both countries and a historic moment for the Schengen area.
- They emphasized the shared goal of building a stronger, more united Europe.

Implications and Challenges

- Free movement for flights and boats is allowed, land routes are restricted due to Austrian objections.
- Both countries aim to open land borders by the end of 2024, awaiting the opportune political moment for full integration.
- The Schengen area, established in 1985, covers 29 European countries and allows more than 400 million people to travel freely without internal border controls.

Reactions and Concerns

- While welcome, ongoing border checks on the roads have caused frustration among truck drivers, leading to calls for urgent measures for full Schengen integration.
- Long wait times at the border have caused significant financial losses to Romanian carriers, leading to calls for faster progress.
- Bulgarian businesses also express disappointment at the slow progress, especially concerning land transport.

Romania:

- Southeastern European country.
- Known for the forests of Transylvania and the Carpathian Mountains.
- It includes well-preserved medieval cities such as Sighisoara.
- Famous for fortified churches and castles, including Bran Castle associated with Dracula.

- Capital: Bucharest, home of the communist-era Palatul Parlamentului government building.

Bulgaria:

- The Balkan nation with diverse geography.
- It includes the Black Sea coast, the mountainous interior and rivers such as the Danube.
- Cultural diversity with influences from Greek, Slavic, Ottoman and Persian civilizations.
- Capital city: Sofia, located at the base of Mount Vitosha, dates back to the 5th century BC.

10. Thailand Legalizes Same-Sex Marriage, Promotes Equality and Tourism (March 28, 2024)

Thailand's lower house of parliament approved a landmark bill legalizing gay marriage, making the country a leader in Southeast Asia in promoting equal rights.

An Overview of the News

- The bill, amending the Civil and Commercial Code, received overwhelming support in the House of Representatives.

Major Provisions of the Bill:

- The "Marriage Equality" bill has received overwhelming majority approval from the 500-member House of Representatives.
- 400 MPs voted in favour, while 10 opposed it, and after three hours of debate, five MPs abstained.
- The law allows same-sex partners aged 18 and over to register their marriages, giving them inheritance, tax benefits and child adoption rights.
- It modifies the legal definition of marriage from "one man and one woman" to "two persons" and changes the status from "husband and wife" to "married couple".

Impact and Importance:

- Prime Minister Srettha Thavisin's administration is leading the bill, which aims to strengthen Thailand's reputation as an LGBTQ-friendly destination.
- Thailand joins Taiwan and Nepal as one of the few Asian regions to recognize same-sex marriage, joining around 40 other countries globally.
- Despite previous obstacles, such as a 2021 Constitutional Court decision and failed attempts at civil partnership recognition, LGBTQ activists have persisted in their quest for equality.

Tourism Promotion and Economic Implications:

- Legalizing same-sex marriage is expected to have a positive impact on tourism, which contributes significantly to Thailand's economy.
- Before the pandemic, LGBTQ tourism in Thailand generated approximately \$6.5 billion, underscoring the potential economic benefits of this progressive legislation.