

SILVER NOTICE



Recently, the Central Bureau of Investigation (CBI) successfully got India's first 'silver notice' issued by Interpol, which will enable the CBI to trace proceeds of crime related to the French embassy visa 'fraud' case.

- It is the latest addition to **Interpol's suite of colour-coded alerts**, designed to help countries track and retrieve criminally obtained assets.
- It allows **participating nations to request information** on assets linked to criminal activities such as fraud, corruption, drug trafficking, and environmental crimes.
- It aimed at tracing assets **laundered across international borders**.
- It is part of a pilot project **involving 52 countries**, including India, was launched following a request from Italy to locate the assets of a senior mafia member.
- The project will run until at least November 2025, with 500 notices available for distribution among the participating countries.

How does it work?

- Countries can use the Silver Notice to **request information on various assets**, including properties, vehicles, financial accounts, and businesses connected to criminal activities.
- The notice facilitates the **identification and location of these assets**, enabling further legal action, such as seizure or confiscation, subject to national laws.
- India is a participant in this pilot project and stands to benefit significantly.

Benefit to India: With numerous fugitive economic offenders and a substantial amount of unaccounted black money transferred offshore, the Silver Notice could be **instrumental in tracing and recovering these assets**.

AGENTIC AI



Recently, India's first agentic AI, Kruti, was launched by Krutrim start up.

- It is a more **advanced GenAI tool**.
- This intelligent system goes beyond analysis, acting autonomously on behalf of individuals and organisations to manage complex tasks, make decisions, and solve problems.
- It uses **sophisticated reasoning and iterative planning** to autonomously solve complex, multi-step problems.
- This system ingests vast amounts of **data from multiple data** sources and third-party applications to independently analyze challenges, develop strategies and execute tasks.
- **Agentic AI's features include:**
 - **Proactive:** It uses dynamic reasoning to interpret user queries, identify goals, and solve problems as they arise.
 - **Action-driven:** It prioritizes taking actions and is integrated with your backend systems and tools to autonomously carry them out.
 - **Retentive memory:** It has both **short and long-term memory** to help contextualize and personalize interactions with customers.

Key Features about the Kruti Agentic AI

- It can **book cabs, pay bills, generate images and support 13 Indian languages** using a localised LLM.
- The platform also includes features such as **read-aloud responses and free access to premium AI capabilities** like research and image creation.
- Kruti understands **both voice and text input**, remembers past interactions and tailors responses in tone, length and language, including 13 Indian languages.

- It learns user preferences, **adapts to usage over time** and integrates with various apps and services to deliver context-aware assistance with minimal effort.
- Kruti also includes a **fully embeddable software development kit (SDK)**, allowing developers to integrate large language model orchestration, memory handling and tool execution with minimal code.

AIRCRAFT ACCIDENT INVESTIGATION BUREAU



Recently, the Aircraft Accident Investigation Bureau (AAIB) launched a formal investigation to determine what went wrong in Air India flight AI-17, operating a Boeing 787 crash.

- It is a government agency **established in 2012** within the **Ministry of Civil Aviation**.
- Its primary responsibility is to **investigate aircraft accidents** and serious incidents in India's airspace. The purpose is to determine how the accident happened and recommend safety improvements, not to assign blame or punish people.
- Before AAIB, such investigations were handled by the **Directorate General of Civil Aviation (DGCA)**, which also regulated airlines.
- **Mandate**
 - It is responsible for classification of 'Safety Occurrences' involving aircraft operating in the Indian Airspace into Accidents, Serious Incidents and Incidents.
 - All Accidents and Serious Incidents involving aircraft with AUW **more than 2250 Kgs or Turbojet aircraft** are investigated by AAIB.
 - AAIB may investigate serious incidents or incidents to aircraft apart from the ones mentioned above, if it appears expedient to hold an investigation into the circumstances of such serious incident or incident.
 - As per the Rule 3 of Aircraft (Investigation of Accidents and Incidents) Rules, 2017 the sole objective of the investigations carried out by AAIB is **prevention of accidents and incidents and not to apportion blame or liability**.

Key functions:

- Investigate all aircraft accidents and serious incidents in Indian airspace
 - Collect evidence (black boxes, flight data, witness statements)
 - Analyze causes and issue safety recommendations
 - Publish final reports for global aviation authorities
- After completion of Investigation and acceptance of the same by the **Director General, AAIB**, the Investigation Reports are made public and published by AAIB on its website.
 - The accepted 'Final Investigation Reports' are also **forwarded to the International Civil Aviation Organisation (ICAO)** and the States participating in the investigation.

GYAN POST SERVICE



- It is a **dedicated postal service** for affordable delivery of **educational, cultural, social and religious books**.
- This initiative **aligns with the objectives of the New Education Policy (NEP)** and aims to bridge the educational divide by making printed **educational material more accessible** and affordable across India, including remote and rural areas.
- It is operational through **all Departmental post offices** and is offering a traceable surface mail service for eligible book packets.
- **Salient Features of 'Gyan Post':**
 - It is available at all Departmental Post Offices w.e.f. 01 May 2025.
 - It will deliver non-commercial printed educational content only.
 - **Minimum rate:** ₹20 for packets up to 300 grams.
 - **Maximum rate:** ₹100 for packets up to 5 kilograms (excluding applicable taxes).
 - A tracking facility will be available to ensure transparency and reliability.
 - **Strict eligibility:** Only **books without commercial ads** or promotional content are accepted. Each item must bear the name of the printer or publisher.

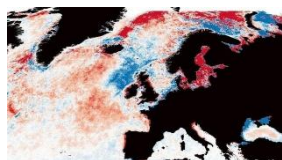
CROSS & CLIMB ROHTAK

Institute of Research Based Learning & Competition

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- Books and printed educational materials sent under 'Gyan Post' will be trackable and transported through surface mode to ensure cost-effective delivery.

WHAT IS OCEAN DARKENING?



- Darkening of the ocean is essentially **shrinking of the photic zones** or those layers of water where sunlight can pass and induce the process of photosynthesis which is key to all biological processes.
 - The photic layers can go **down to about 200 meters** and they also act as a base for nearly 90 per cent of the world's marine life.
 - This layer is responsible for **increasing the productivity** of the ocean which also involves **regulating climate** and even supporting **global fisheries or related activities**.
 - A new study seems to suggest that more than one-fifth of the global ocean has considerably darkened in the last two decades.
- **Why is this happening?**
 - In **coastal zones**, darkening is usually due to **higher runoff of agricultural nutrients**, organic matter, and sediments into the ocean with rain which directly promotes algal blooms that block light.
 - **In the open ocean**, the likely causes are **changes in plankton dynamics**, increase in **sea surface temperature** and changes in **ocean circulation**.
- **Impacts of Ocean Darkening**
 - The contraction of photic zones may **lead to fundamental shifts in marine ecosystems**. Those species that use sunlight and moonlight cues to feed, move, hide, and reproduce will be competing for shallower zones.
 - This **might upset marine food webs** that are already working hard against an ecosystem with minimal fishing activity.

EMPEROR PENGUINS



- Emperor penguins are the **tallest and heaviest** penguin alive today.
 - They evolved about one million years ago, and are highly adapted to life in one of Earth's harshest environments
- **Features:**
- Adults are coloured black and white with areas of orange and yellow on the head, neck, and breast.
 - They gain and **lose weight rapidly during breeding** and feeding seasons. On average, females tend to weigh less than males.
 - They have two layers of **feathers, a good reserve of fat**, and proportionally smaller beaks and flippers than other penguins to prevent heat loss.
 - They also huddle close together in large groups to keep themselves and each other warm.
 - They are **capable of diving to depths** of approximately 550 metres (1,800 feet) in search of food; they are the world's deepest-diving birds.
 - They breed in the winter.
 - **Lifespan:** 15 to 20 years
- **Distribution:** They are found **throughout the Antarctic** continent and sub-Antarctic islands.
- **Breeding:** In breeding months (April to November), emperor penguin colonies are found between 66° and 78° south latitude along the Antarctic coastline.
- **Habitat:** It is the most ice-adapted of any penguin species, **inhabiting pack ice** and surrounding marine areas. They spend their entire lives on Antarctic ice and in its waters.
- **Conservation Status:**
- IUCN Red List: Near Threatened.

IAEA'S NON-COMPLIANCE RESOLUTION: IMPLICATIONS FOR IRAN AND GLOBAL SECURITY

International Atomic Energy Agency (IAEA) Board of Governors passed a resolution declaring Iran in breach of its 1974 Safeguards Agreement, citing concerns over unexplained uranium traces at multiple sites. The vote saw opposition from China, Russia, and Venezuela, with 11 abstentions.

A day later, Israel launched "preliminary strikes" on Iranian nuclear facilities and declared a domestic state of emergency.

IAEA Safeguards agreements

- IAEA Safeguards are embedded in legally binding agreements.
- In line with the IAEA's Statute, States accept these Safeguards through the conclusion of such agreements with the Agency.
- As of May 2023, the IAEA has concluded comprehensive safeguards agreements with 182 countries, primarily non-nuclear-weapon states under the NPT.
- These agreements are the most common type and are designed to ensure the peaceful use of nuclear material.
- **1974 Safeguards Agreement**
 - The 1974 Safeguards Agreement refers to a legally binding accord between Iran and the IAEA, concluded under the framework of the Treaty on the Non-Proliferation of Nuclear Weapons (NPT).
 - **Inventory and Reporting Obligations**
 - Iran is required to:
 - Declare and maintain a detailed inventory of all nuclear materials.
 - Provide design information of any nuclear facility handling such materials.
 - Notify the IAEA before constructing or modifying any nuclear facility.

- **Inspections**

- The IAEA is authorized to conduct routine, ad hoc, and special inspections.
- Iran must allow access to facilities, materials, and relevant documents to verify compliance. Surveillance equipment like cameras and seals may be installed at key locations.

- **Verification Mandate**

- The IAEA must be able to verify that there is no diversion of declared nuclear material to weapons-related programs.

- **Non-Compliance Consequences**

- If Iran fails to meet its obligations, the IAEA can:
 - Report the breach to its Board of Governors.
 - Notify all IAEA member states.
 - Refer the matter to the U.N. Security Council, which can impose sanctions or take other measures.

IAEA Resolution Marks a Turning Point

- For the first time, the IAEA Board of Governors formally declared Iran non-compliant with its 1974 Safeguards Agreement, paving the way for potential escalation to the U.N. Security Council.
- **IAEA Invokes Rare Article XII.C Powers**
 - The IAEA Board of Governors, empowered by Article XII C of its 1957 statute, has formally cited Iran for non-compliance.
 - Thus far, this Article has been invoked only six times: against Iraq (1991), Romania (1992), North Korea (1993), Iran (2006), Libya (2004), and Syria (2011).
 - This provision enables the Board to demand corrective measures, suspend technical aid, and escalate the issue to the U.N. Security Council if Iran fails to respond satisfactorily.

TOTAPURI MANGOES



- Totapuri mangoes are **primarily grown** in Chittoor district in Andhra Pradesh and in parts of border districts in Karnataka and Tamil Nadu.
- It is known for its **elongated shape and distinct parrot beak-like tip** (hence “Totapuri”), the variety is valued for its juice and pulp.
- It is indigenous to South India and also known by other names such as **Ginimoothi, Sandersha, Banglora**.
- Totapuri mangoes are used aplenty in mango **drinks manufactured and distributed across the country**.
- These mangoes are largely supplied to processing units that extract mango pulp for commercial use, both domestically and internationally.

Climatic conditions

- **Soil:** Thrives in **well-drained, loamy soils** with a neutral to slightly acidic pH.
- **Climate:** Best suited for tropical climates with **moderate to high temperatures**.

Nutritional Value:

- **Vitamins:** Rich in Vitamin C and Vitamin A, supporting immune function and eye health.
- **Minerals:** Contains calcium, potassium, and magnesium, which are vital for **bone health and muscle function**.
- **Antioxidants:** Provides antioxidants that protect cells from damage and support skin health.