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NATIONAL COMPANY LAW APPELLATE TRIBUNAL (NCLAT)

- The NCLAT is a **quasi-judicial body** constituted under **Section 410 of the Companies Act, 2013**. It was established to **hear appeals** against the decisions of the **National Company Law Tribunal (NCLT)**, functioning since **1st June 2016**.
- Its main objective is to **promote timely corporate dispute resolution**, ensure **transparency**, and improve **efficiency in insolvency and corporate governance matters**.
- **Functions of NCLAT include:**
 - Hearing appeals against orders of **NCLT** under **Section 61 of IBC**.
 - Hearing appeals against orders of the **Insolvency and Bankruptcy Board of India (IBBI)** under **Sections 202 and 211 of IBC**.
 - Hearing appeals against orders of the **Competition Commission of India (CCI)**.
 - Hearing appeals related to the **National Financial Reporting Authority (NFRA)**.
 - Giving **advisory opinions** when legal issues are referred by the **President of India**.
- **Headquarters:** Located in **New Delhi**.
- **Composition:** It includes a **Chairperson**, along with **Judicial and Technical Members**, all appointed by the **Central Government** based on expertise in **law, finance, accountancy, and administration**.
- **Powers and Procedure:**
 - NCLAT can **regulate its own procedure** and possesses powers equivalent to a **civil court** under the **Civil Procedure Code, 1908**.
 - It can summon witnesses, receive affidavits, enforce production of documents, and issue commissions.
 - Orders passed by NCLAT are **enforceable like civil court decrees**.

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- Appeals against NCLAT orders can be filed in the **Supreme Court of India**.
- Civil courts have **no jurisdiction** over matters within the purview of NCLAT.
- No court or authority can **grant injunctions** against any action taken by NCLAT under its legal authority.
- **Timely disposal:** NCLAT is required to **dispose of appeals within six months** from the date of receipt to ensure swift resolution.

INTERNATIONAL MARITIME ORGANISATION (IMO)



- The **International Maritime Organisation (IMO)** is a specialised agency of the **United Nations (UN)**, responsible for the **safety and security of international shipping** and the **prevention of marine and atmospheric pollution by ships**.
- It contributes directly to **UN Sustainable Development Goal (SDG) 14**, which focuses on the **conservation and sustainable use of oceans and marine resources**.
- The IMO formulates **regulations on shipping safety, maritime security, and environmental protection**, but **does not enforce** Once a member state adopts a regulation, it becomes part of that country's **domestic law**.
- The organisation also deals with **legal matters** such as **liability, compensation, and facilitation of maritime traffic**.
- It was initially established as the **Inter-Governmental Maritime Consultative Organization (IMCO)** in **1948**, became a **UN specialised agency** in **1959**, and was renamed **IMO** in **1982**.
- The IMO has **174 member states** and is **headquartered in London**.

Organisational Structure of IMO

- The **Assembly** is the **supreme governing body**, comprising all member states. It meets every **two years** to approve the **work programme, budget**, and elect members to the Council.

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- The **Council** acts as the **Executive Organ**, overseeing IMO's work in between Assembly sessions.
- The IMO has **five major Committees**, which are responsible for **policy development and regulation formulation**, including the **Marine Environment Protection Committee (MEPC)**.
- Funding is sourced through **mandatory contributions by member states**, and also from **voluntary donations and commercial revenue**.

MARPOL Convention (International Convention for the Prevention of Pollution from Ships)

- The **MARPOL Convention** is the **primary international treaty** to prevent **pollution of the marine environment** from ships due to **operational or accidental causes**.
- It was **adopted in 1973** under the IMO and supplemented by the **Protocol of 1978**, which was introduced following major **tanker accidents** in the mid-1970s.
- **India is a signatory to MARPOL** and adheres to its annexes through domestic regulations.

STRENGTHENING JUDICIAL ACCOUNTABILITY - SUPREME COURT JUDGES DECLARE ASSETS

- The recent **public declaration of assets by 21 Supreme Court judges**, under the leadership of Chief Justice of India Sanjiv Khanna, marks a significant step towards **transparency and accountability in the judiciary**.
- This move **addresses longstanding concerns about corruption allegations within the judiciary** and **reaffirms public trust** in judicial institutions.

Judicial Immunity and the Need for Accountability:

- **Legal framework governing judicial immunity:**
 - Judges are granted extensive protection under the -
 - **Judicial Officers Protection Act, 1850:** Grants immunity for judicial acts done in good faith.

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- **Judges (Protection) Act, 1985:** Shields judges from civil/criminal proceedings related to their judicial duties.
 - However, these protections are **not absolute** and do not prevent action against judges for misconduct in their individual capacity.
- **Past initiatives:**
 - **In 2009**, the Supreme Court passed a resolution endorsing the publication of the assets of judges. As it was **voluntary**, the portal for uploading these details has remained dormant ever since.
 - **Recent disclosures** were **prompted by the** discovery of **unaccounted cash at a Delhi High Court judge's residence**.
- **Current concerns:** The **opacity** in judicial conduct and prosecution continues to **erode public confidence**.

Key Challenges and Way Ahead in Ensuring Accountability:

- **High threshold for impeachment:**
 - Rarely used; **no sitting judge in India** has ever been impeached or convicted.
 - **The opaque design** of prosecution mechanisms protects judicial independence but also prevents scrutiny.
- **Lack of clarity under Lokpal Act:**
 - Judges are yet to be explicitly brought under the ambit of the Lokpal.
 - Adds to **ambiguity** in initiating independent investigations.
- **Need for systemic reform:**
 - Asset declarations are a symbolic step.
 - **Broader institutional reforms and legal clarity** are required to establish a robust accountability mechanism.

Conclusion:

- While the **public declaration of assets** by Supreme Court judges is a commendable step towards transparency, it **merely scratches the surface of the deeper issues** plaguing judicial accountability in India.

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INDIA'S RISING E-WASTE, THE NEED TO RECAST ITS MANAGEMENT

- India's digital revolution is redefining its development trajectory, propelling the nation towards its vision of Viksit Bharat, a developed India.
- From smartphones and laptops to sophisticated industrial and medical technologies, digital infrastructure has become the cornerstone of economic growth, social inclusion, and innovation.
- However, this transformation comes with a significant environmental cost: the exponential rise in electronic waste (e-waste).
- As India emerges as one of the world's largest generators of e-waste, effective management of this growing challenge becomes essential to ensure sustainable progress.

The E-Waste Surge: A Looming Challenge and Consequence

- The E-Waste Surge
 - India's e-waste landscape has experienced **alarming growth in recent years**.
 - Between 2017-18 and 2023-24, the country's e-waste volume surged by over **151%**, rising from 7,08,445 metric tonnes to 17,78,400 metric tonnes.
 - This translates to an annual increase of approximately **1,69,283 metric tonnes**.
 - These figures position India alongside global e-waste giants such as China, the United States, Japan, and Germany.
 - As the digital ecosystem deepens, India must balance its technological advancement with robust environmental safeguards.
- Consequences of Mismanaged E-Waste
 - The cost of ineffective e-waste management is **multifaceted** and severe.
 - Environmentally, India suffers losses exceeding **\$10 billion annually** due to pollution from harmful substances such as cyanide, sulphuric acid, and lead.

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- Socially, the **unregulated and often illegal recycling sector**, dominated by informal workers, including women and children, **incurs a human cost, with average lifespans of these workers plummeting below 27 years** due to toxic exposure.
- Moreover, **informal recycling methods are economically inefficient**, resulting in the **loss of critical metals worth over ₹80,000 crore and an estimated \$20 billion in unaccounted tax revenue** each year.

Conclusion

- India's **digital ascent** must be matched by **environmental responsibility**.
- The **explosive growth in electronic waste** demands **systemic interventions** that combine regulation, economic incentives, and innovation.
- **Extended Producer Responsibility** and a **stable floor price for recycling certificates** offer a **transformative solution**.
- As India aspires to become a **global sustainability leader**, these measures will be **critical** in ensuring that the journey toward **Viksit Bharat** is **not only technologically advanced but also environmentally conscious and socially just**.

WHAT IS GERMANIUM?



- It is a **chemical element** between silicon and tin in **Group 14 (IVa)** of the periodic table.
- It has the chemical **symbol Ge** and the **atomic number 32**.
- It is a **silvery-gray metalloid**, intermediate in properties between the metals and the nonmetals.
- It has a **diamondlike crystalline structure**, and it is similar in chemical and physical properties to silicon.
- Germanium is **stable in air and water** and is **unaffected by alkalis and acids, except nitric acid**.

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- Although germanium was not **discovered** until 1886 by **Clemens Winkler**, a German chemist, its existence, properties, and position in the periodic system had been **predicted** in 1871 by the **Russian chemist Dmitry Ivanovich Mendeleyev**, who called the hypothetical element **ekasilicon**.
- Germanium did not **become economically significant** until after 1945, when its **properties as a semiconductor were recognized** as being of value in electronics.
 - It remains of primary **importance in the manufacture of transistors** and of components for devices such as **rectifiers and photocells**.
- It is widely distributed in nature but is **too reactive to occur free**.
- Germanium **ores are rare**. They are found in small quantities as the minerals **germanite and argyrodite**.
- Today, germanium is **extracted as a by-product of zinc production** and from coal fly ash.
- It is estimated that **75% of worldwide production** of germanium is **sourced from zinc ores**, mainly the zinc sulfide mineral sphalerite, and 25% from coal.
- **Major Producers:**
 - The major worldwide producer of germanium is **China**, responsible for around **60% of total production**.
 - The remaining production of germanium comes from **Canada, Finland, Russia**, and the United States.

FERROELECTRICITY



- **Ferroelectricity** is a property of certain **non-conducting crystals or dielectrics** that exhibit **spontaneous electric polarisation**, where the centres of **positive and negative charges separate**, making one side of the crystal positive and the other negative.
- This **electric polarisation** can be **reversed** by applying an appropriate **external electric field**.

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- The term **ferroelectric** is derived from **ferromagnetism**, where magnetic domains align spontaneously; similarly, in ferroelectrics, **electric dipoles align** spontaneously in domains.
- **Ferroelectric domains** are clusters where dipoles are aligned. These domains can be reoriented by strong electric fields.
- Ferroelectricity vanishes above a critical temperature called the **Curie Temperature**, where thermal agitation disrupts dipole alignment.

Domain Walls in Ferroelectrics

- **Domain walls** are the **boundaries between differently polarised regions** in a ferroelectric material.
- These walls often exhibit **electrical or magnetic properties** different from the surrounding domains.
- Some **domain walls** may become **electrically conductive** even when the bulk of the material is non-conductive, or **magnetically active** even if the domain itself is nonmagnetic.
- These unique properties make domain walls potential candidates for **nanoelectronic components** for **memory, sensing, and signal processing** in **low-power devices**.

New Visualisation Technique by ORNL

- This method, called **Scanning Oscillator Piezoresponse Force Microscopy (SO-PFM)**, is capable of detecting both **slow and abrupt movements** of domain walls under **rapidly fluctuating electric fields**.
- Traditional methods offered only static snapshots, like a photo before and after a football play, missing the **intermediate dynamics**.
- The new method creates **dynamic visualisations**, helping researchers understand how domain walls **evolve** and how much **energy is required** to move them.
- It uses **precision-timed control electronics** with **atomic force microscopy (AFM)** to monitor real-time changes, a capability not previously possible.

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RAIKA TRIBE



- The Raika tribe is an indigenous pastoralist community primarily inhabiting the arid and semi-arid regions of Rajasthan, notably around Kumbhalgarh in Rajsamand district.
 - Also known as Rabaris, they have a distinct socio-cultural relationship with camels.
 - The Raikas have historically been the principal breeders of Rajasthan's indigenous camel breeds, especially the Marwari camel, known for its strength, endurance, and desert adaptability.
 - For the Raikas, camel herding is not just a livelihood but a cultural identity, woven into rituals, oral traditions, and seasonal migrations.
 - The Raikas possess traditional knowledge of pasture cycles, animal health, and biodiversity, which has historically sustained the fragile ecology of Rajasthan's arid landscapes.
 - Their age-old migratory grazing routes allowed camels to feed on medicinal desert shrubs, enhancing both animal health and ecosystem balance.
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