Regent Education and Research Foundation Group of Institutions Daily Current Affairs Synopsis

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(Useful for UPSC/WBPSC/SSC Exams.)

Report assesses the growth and impact of India's existing unicorn and startup ecosystem (Unicorn 1.0) and provides a vision for its future (Unicorn 2.0).

Impact of Unicorn 1.0 (2010-23):

Economy: Contribution of 10-15% to GDP growth with 100+ unicorns (3rd highest globally) and 1 lakh startups. Increased inclusivity and sustainability: 20-25% of new employment creation, 50 million plus fintech powered MSMEs, and 40th rank in global innovation index. Democratizing consumption: Greater affordability with 30-40% lower cost of education and healthcare, and improved e-commerce reach.

Description Unicorn 2.0 (2024-35) has the potential to substantially transform India's society and economy with additional contribution of \$1 trillion to GDP and wide-scale democratization of digital services by 2030.

Shifts that will define Unicorn 2.0 will include 15-25 globally leading startups, 25+ innovation led companies, near zero instances of corporate governance lapses and broad-basing of investor ecosystem etc.

B Recommendations for Unicorn 2.0:

Capital: Participation of retail investors, and publicsector institutions in funding.

Re-wired Governance: Defined guidelines and corporate governance framework for startups.

Regulation: Supportive tax environment.

Innovation: Encouraging startups to invest in academic research and monetize resulting IP.

Talent: Development of a deeper talent pool through apprenticeship-based certification/courses.

Report has been developed by Ministry of New and Renewable Energy (MNRE) and Council on Energy, Environment, and Water(CEEW), under the NITI Aayog Action Plan for Circular Economy (CE) – Solar Panels.

NITI Aayog has finalized **10 sectoral CE action plans** for implementation by stakeholder ministries/departments.

> Need for Solar Waste Management:

India's installed **66.7 GW capacity** (FY23), has generated about 100 kilotonnes (kt) of waste, with cumulative waste increasing to **600 kt by 2030.Solar**

waste contains:

- Critical minerals such as silicon, copper, tellurium, and cadmium, whose recycling will reduce import dependency.
- Toxic metals like lead and cadmium, which can contaminate water and soil and impact workforce health.
- Metals like silver and silicon, having high economic value with applications in manufacturing industries.

Recommendations:

Maintain a **comprehensive database of the installed solar capacity** for accurate mapping of waste generation centres.

- Promoting safe recycling of and recovery from solar waste.
- Academia and industry should accelerate module recycling technology innovation.

Initiatives for Circular Economy in India's Solar Energy Sector

- **Report on Circular Economy** in Solar Panels to NITI Aayog
- Solar PV cells made part of Electronic Waste (Management) Rules2022
- Solar PV recycling as priority thrust area under **Renewable Energy Research and Technology Development (RE-RTD) Programme**

Preventive Detention (PD) orders passed mechanically must be nipped in the bud by Advisory Board (AB) : Supreme Court (SC)

SC in Nenavath Bujji etc vs State of Telangana and ors said that AB must play active role in ascertaining whether the detention is justified under the law or not.

About AB

- Article 22(4): Any law pertaining to PD must provide for constitution of an AB
- It comprises any persons who have been or qualified to be appointed as judges of High Court.
- Parliament can lay down procedures to be followed by an AB during an inquiry.
- The detention of a person cannot exceed 3 months unless an AB reports sufficient cause for extended detention.

Preventive detention (PD) means detention of a person without trial and conviction by a court, on a mere reasonable apprehension of him doing an activity dangerous to public

order.

Parliament has exclusive authority to make a law of PD on defence, foreign affairs and security of India.

Both Parliament and state legislatures, can **concurrently** make a law for reasons connected with **Security of a state, Maintenance of public order, etc.**

National Security Act 1980, Unlawful Activities (Prevention) Amendment Act, 2019 provide for PD. SC judgments on PDs:

AK Gopalan vs State of Madras (1950): SC upheld constitutional validity of PD Act of 1950.

Khudiram Das v. State of W.B., (1975): SC observed that power of detention is clearly a preventive measure. It does not partake in any manner of the nature of punishment.

The disputes include:

US's imposition of tariffs on steel and aluminium imports; India's renewable energy subsidies for solar cells and modules etc.

- Both submitted notification to WTO's Dispute Settlement Body (DSB) of mutually agreed solution in dispute titled DS430 Concerning Importation of Certain Agricultural Products.
- WTO Dispute Settlement Method: There are two main ways to settle a dispute once a complaint has been filed in the WTO.

Mutually Agreed Solution

- At any stage during dispute settlement process, parties can settle dispute by a "mutually agreed solution".
- The solutions must be consistent with relevant WTO agreement.
- Parties are **required to notify DSB** and relevant committees of mutually agreed solution.

Dispute Settlement Process

- Consultation (60 days): Members try to reach a mutually agreeable solution through direct talks.
- Adjudication (if consultations fail): A panel of experts is established by DSB to examine the case and deliver a report.
- It can be appealed to **Appellate Body**.
- **Implementation:** DSB adopts Appellate Body report, making it binding on parties.

Appellate Body (AB)

- AB was established in 1995. It has 7 members and its seatis in Geneva, Switzerland.
- Decision to appoint persons to AB is taken by consensus among all WTO Members.
- It has been dysfunctional since 2019, because US has blocked appointment of appellate body members.
- The term of the last sitting Appellate Body member expiredon 30 November 2020.

It examines the **challenge of youth employment** in Indiaand changes over the past two decades.

Key findings:

- Employment growth remained stagnant up to 2019 and then moved upward, dominated by poor-quality employment in informal sector (nearly 82% in informal sector).
- Slow and steady transition of the workforce to non-farm employment has reversed due to the covid pandemic.
- Women largely account for increase in self-employmentand unpaid family work.

Wages has remained low and are stagnant or declining.Labour productivity consistently increased alongsidecapital deepening, indicating association of growth with technological progress and productivity gains rather than employment.

Challenges in youth employment:

India is at an inflexion point, as youth population, at 27% in 2021, is expected to decline to 23% by 2036.

Education participation of youths who are out of labour force drive the low youth labour force participation rate. Probability of any kind of employment is lower as education rises but higher for youths having technical education.

Youth unemployment increased nearly threefold, from 5.7% in 2000 to 17.5% in 2019.

Five Key policy areas for action:

Make production and growth more employment-intensive.

- **phprove job quality** through investing in emerging sectors, creating inclusive migration policy and ensuring basic rights.
- Overcome labour market inequalities boosting participation of women and youth.
- Make systems for skills training and active labour market policies more effective.
- **Bridge knowledge deficits on labour market patterns** with reliable statistics.

Government of India submits two applications for approval of plans of work for seabed exploration in the Indian Ocean

India has applied with International Seabed Authority for rights to explore two vast tracts in Indian Ocean seabed.
These rights are specific to areas that are part of open ocean, where no countries can claim sovereignty.

> Applied regions are:

● For exploration of **polymetallic sulfides** in **Indian Ocean Ridge** (**Carlsberg Ridge**), located in Central Indian Ocean. ● For exploration of cobalt-rich ferromanganese crusts of **Afanasy-Nikitin**(**AN**) **Seamount in** Central Indian Ocean. **Currently, India**

> holds two contracts for exploration in Indian Ocean. These are

For exploration for **polymetallic nodules** in Central Indian Ocean Basin.

• Polymetallic nodules contain manganese, iron, nickel, copper, cobalt, and lead. These metals are of economic and strategic importance.

For exploration of **polymetallic sulphides** in Indian Ocean Ridge.

- Seabed exploration outside of territorial limits are decided by United Nations Convention on Law of Sea(UNCLOS).
- UNCLOS (adopted in 1982) lays down comprehensiveregime of law and order in world's oceans and seas.
- Bodies established under UNCLOS are: International

Seabed Authority,

International Tribunal for Law of the Sea and Commission on Limits of the Continental Shelf.

International Seabed Authority

Headquarter: Kingston, Jamaica

Autonomous international organization established under UNCLOS.

Members: 169 Members, including 168 Member States and European Union.

Functions:

Organize and control all mineral-resources-related activities in sea for benefit of humankind.

Protection of marine environment from harmful effects arising from deep-seabed-related activities.

Global Trade Update report

Report was released by United Nations Conference onTrade and Development (UNCTAD).

Key Findings:

Services exports from India rose by 14% in 2023, while goods export declined by 6%.

International trade is expected to rebound in 2024. Logistical challenges such as shipping disruptions inRed Sea, Black Sea etc. can raise costs and disrupt supply chains.

▶ UNCTAD: Established in 1964 as permanent intergovernmental body, it is main authority of UN General Assembly in sphere of trade and development.

PSLV Orbital Experimental Module-3 (POEM-3)

- POEM-3, successfully concluded its mission by re-entering Earth's atmosphere and disintegrating.
- Achievement: It virtually left no debris in orbit, demonstratinga commitment to minimizing space clutter.
- **About POEM-3:**
 - It used spent PS4 stage of the PSLV-C58 rocket that launched XPoSat.
- POEM initiative utilizes fourth stage of PSLV as platform to conduct scientific experiments in orbit converting it into a functioning laboratory for space-based research.

Hepatitis B

Public knowledge about Hepatitis B is dismal in India, according to study.

Viral hepatitis is an **inflammation of liver** caused by avirus.

Main hepatitis viruses are:

Hepatitis A: Effective vaccine available; Outbreaks related to contaminated food or to person-to-person transmission. Hepatitis B: Effective vaccine available; is a leading cause of liver cancer.

Hepatitis C: It is spread when a person who is not immune comes in contact with body fluids from an infected person. There's **no vaccine** to prevent it.

Operation SANKALP

Launched by Indian navy in December 2023, it completed 100 days.

- It operates across three key areas: Gulf of Aden and adjoining regions, Arabian Sea, and off East Coast of Somalia.
- Objective: safeguarding India's maritime interests, countering maritime threats, thwarting resurgence of piracy and significantly denting narcotics trade in Indian Ocean Region.



Statio Shiv Shakti

- International Astronomical Union (IAU) has approved the name 'Statio Shiv Shakti' for the landing site of Chandrayaan-3's Vikram lander.
- Name was included in Gazetteer of Planetary Nomenclature, which documents planetary names approved by IAU.
- **IAU** was founded in 1919 with its Secretariat in Paris, France.

Its mission is to promote and safeguard the science of astronomy in all its aspects.

92 member countries including India.

It serves as international authority for assigning designations to celestial bodies and surface features on them.

Shinkun La Pass

- Border Road Organisation has connected strategically important road from Manali (Himachal Pradesh) to Leh (Ladakh) through Darcha and Nimmu on Kargil–Leh Highway.
- Road is not only shorter, but crosses only one pass— Shinkun La (16,558 feet).

Shinku La Pass **connects Lahaul and Spiti** in Himachal Pradesh with **Zanskar Valley in Kargil, Ladakh.**

This will result in road having all weather connectivity to Ladakh region.



Mekong River

- Vietnam faces crop losses as saltwater seeps into the Mekong Delta region, known as "Vietnam's rice bowl".
 - The Mekong delta, one of the largest and most fertile deltas in Asia, is situated in Cambodia and Vietnam.
- Mekong River is longest river in Southeast Asia. O Origin: Tibetan Plateau.

It passes through China, Myanmar, Thailand, Laos, Cambodia and Vietnam.

It forms part of international border between Myanmarand Laos, and Laos and Thailand.

It drains into **South China Sea.**

Cities on its banks include Phnom Penh, Ho Chi Minh City and Vientiane.

Bahá'í Community

The faith of Bahá'í community is not recognised by the Iran's Constitution.

Bahá'í faith is a **relatively young monotheistic religion** with spiritual roots dating back to **early 19th century in Iran**.

Founder of Bahá'í faith is Bahá'u'lláh.

Holy shrine of Bahá'u'lláh and Holy shrine of the Báb (Haifa), as the most holy places of the Bahá'í faith, are located in Israel.

Bahai core beliefs are "the unity of religion", "the unity of God", and "the unity of humanity".

New Delhi's Lotus Temple is a Bahá'í House of Worship.

Mauritania (Capital: Nouakchott)

- India and Mauritania held their first Foreign Office Consultations (FOC) in Nouakchott.
- Political features:

Located in Northwest Africa, on the Atlantic coast.

Bordering Countries/Territories: Western Sahara territory (most of which is occupied by Morocco), Algeria, Mali, and Senegal. **Bordering water bodies:** Atlantic Ocean

Geographical Features:

Much of Mauritania encompasses part of the Sahara Desert.

• Major river: Senegal River (forms its border with Senegal).

- Topography include Inselbergs (isolated steep sided rock hills or small mountains), of which the highest is Mount Ijill.
- Vegetation includes regions of Savanna and Sahel.