21st Sept, 2024

1. <u>Bombay HC Strikes Down Centre's Fact Check Unit</u> GS 2 (Governance)

• Why in News:

The Bombay High Court (HC) struck down a key provision of the amended Information Technology (IT)
 Rules 2021 (under IT Act of 2000), as unconstitutional.
 This provision empowered the government to identify

Bombay HC strikes down

 This provision empowered the government to identify "fake news" on social media platforms through a "Fact Check Unit" (FCU).

Amendment of the IT Rules:

The law in question: The Ministry of Electronics and Information Technology (MEiTY) promulgated the IT (Intermediary Guidelines and Digital Media Ethics Code) Amendment Rules 2023 (2023 Rules), which amended the IT Rules 2021.

The amendment –

- Expanded the general term "fake news": To include "government business".
- MINIMAL

 Road to verdict

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 Court on Friday

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Centre's amended IT rules

- Defines the power of FCU: If the FCU comes across or is informed about any posts that are fake, false, or contain misleading facts pertaining to the business of the government, it would flag it to the social media intermediaries concerned.
- Fix the accountability of the online intermediaries: The online intermediaries would then have to take down such content if they wanted to retain their "safe harbour"/ legal immunity with regard to third-party content published by them.

Concerns regarding these amendments:

- When it came to matters pertaining to itself, the FCUs permitted the government to be the "only arbiter" of truth
- The Rules raised concerns over free speech and the extent to which the government can regulate it.

Timeline of Events which Led to the Striking Down of the FCU:

- o The constitutional validity of the Rules was challenged (in the Bombay HC) on the basis of them being arbitrary, unconstitutional, and in violation of fundamental rights.
- The Centre said
 - The Rules were not against any opinion, criticism, satire, or humour targeting the government
 - They were meant to only prohibit fake, false, and misleading facts on social media related to "government business"
- Given the split verdict of January, as per rules of the Bombay HC, the case was referred to a third judge (Justice Chandurkar) who would hear the matter afresh.
- o Meanwhile, the Centre notified the FCU under the Press Information Bureau (PIB).
- O However, the Supreme Court stayed the operation of the notification until the Bombay HC took a final decision on the petitions challenging the amended Rules

What was the Split Decision of the Bombay HC?

- **Striking down the rule:** The State's decision to classify speech as true or false and compel the non-publication of the latter is nothing but **censorship**.
- Upholding the rule: Right of citizens to participate in the representative and participative democracy of the county is meaningless unless they have access to authentic information and are not misled by misinformation.

The Verdict Given by Justice Chandurkar:

- Violates fundamental rights: The amended Rule [3(1)(b)(v)] was violative of Articles 14 (equality before law), 19(1)(a) (freedom of speech and expression) and 19(1)(g) (right to practice a profession or trade) of the Constitution.
- Imposes non-reasonable restrictions: The impugned Rule curtailed the fundamental rights of citizens beyond the reasonable restrictions prescribed under Article 19(2), which was impermissible through the mode of delegated legislation.
- Using vague expressions: The expressions "fake, false or misleading" in the Rule are vague, and under the right to freedom of speech and expression there is no further "right to the truth".
- Inadequate safeguards: The Centre's claim that decisions given by the FCU can be challenged before a constitutional court cannot be treated as adequate safeguard.
- Chilling effect on the online intermediary: The impugned Rule resulted in a chilling effect on the intermediary due to the threat of losing safe harbour, and was therefore liable to be struck down.

What is the Road Ahead in this Matter Now?

- **Procedural part:**
 - Justice Chandurkar's opinion has settled the matter in favour of the petitioners by a 2-1 majority.
 - His opinion will be placed before a division Bench of two judges, which will formally announce the 2-1 majority against the impugned Rule.

An appeal before the SC:

- This is given that similar issues are pending before the Delhi and Madras HCs too.
- Also, other aspects of the 2021 guidelines, such as the mandates for social media platforms to set up a grievance redressal and compliance mechanism, are also pending before various HCs.

2. Supreme Court Seeks Government's Response on Delayed Judicial Appointments GS 2 (Judiciary)

Why in News:

- The Supreme Court, led by Chief Justice D.Y. Chandrachud, asked the government to provide a detailed report on the status of judicial appointments that had been reiterated by the Collegium but not yet cleared by the government.
- The court emphasized that the Collegium is not a "search committee" and holds a critical role in the constitutional framework, implying that government should not have absolute discretion in accepting or rejecting recommendations.
- The court was hearing a Public Interest Litigation (PIL) seeking a fixed timeline for the government to notify judicial appointments recommended by the Collegium. Additionally, a contempt plea was brought by the Jharkhand government, alleging delays in clearing the transfer of Himachal Pradesh High Court Chief Justice M.S. Ramachandra Rao to the Jharkhand High Court.

Collegium System

Background Article 124 and 217 of Indian constitution and controversy over word "Consultation"

SC asks govt. to explain delay in the appointment of judges

Bench says the Collegium cannot be treated like a 'search committee' whose reiterations can be

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- Article 124(2) of Indian Constitution deals with the appointment of Judges of Supreme Court. As per this article:
 - Every judge of SC is to be appointed by the President.
 - President will consult such judges of the SC and of the HCs in the States as the President may deem necessary.
 - CJI shall always be consulted in case of the appointment of judge other than the Chief Justice of SC.
- Article 217 of Indian Constitution covers the appointment and conditions of a High Court Judge.
 - It says that every Judge of a High Court shall be **appointed by the President** after consultation with the Chief Justice of India, the Governor of the State.
- The constitutional provision gave the CJI and other judges the status of consultant and left the decision of appointment to the executives.
- This has been interpreted by the SC in a different way ultimately leading to the evolution of Collegium system.
- Evolution The current collegium system has evolved over a period of time through the judicial pronouncements. These cases have been mentioned as below:
 - First Judges Case (1982)
 - SC held that consultation does not mean concurrence
 - Gave Primacy to Executive.
 - Second Judges Case (1993)
 - Court reversed its earlier ruling by changing the meaning of consultation to concurrence.
 - Advice tendered by CJI is binding.
 - CJI would take into account the views of two of his senior most colleagues.
 - Third Judges Case (1998)
 - Court gave primacy to the opinion of CJI in the matter of appointment of Judges
 - However, Chief Justice must consult four senior most judges of SC.
 - Opinion of all members of the collegium should be in writing.
 - If the majority of the collegium is against the appointment of a particular person that person shall **not be appointed**.
- Role & responsibilities of Collegium System
 - Appointment of Judges
 - Supreme Court Judges: The Collegium for appointing SC judges consists of the Chief Justice of India (CJI) and the four senior-most judges of the Supreme Court.
 - **High Court Judges**: For High Court appointments, the Collegium consists of the CJI and two senior-most judges of the Supreme Court.
 - The names recommended by the Collegium are sent to the government for approval. The government can either accept or return the recommendations for reconsideration
 - As per convention, the government is obliged to accept the collegium's recommendation for appointment of judges if the decision has been reiterated.
 - Transfer of Judges
 - The Collegium also plays a key role in the transfer of judges between different High Courts.
 - This ensures the independence of the judiciary and prevents judges from developing local biases.
 - Role in Maintaining Judicial Independence
 - The primary goal of the Collegium system is to ensure that judicial appointments remain independent of political or executive influence.
 - By vesting the power of appointment within the judiciary itself, it seeks to maintain the independence and integrity of the courts.

• Collegium system: a tug of war

- The judiciary and the executive keep clashing over the collegium system for appointment of judges in higher judiciary.
- The Centre terms this system to be opaque and non-transparent, however retired and current chief justices and judges of the SC holds it as the best system.
- The delays in appointments and transfers, particularly when recommendations are pending approval from the government, have caused friction between the judiciary and the executive.

3. <u>India's Next Dairy Milestone - Current Status and Future Aspirations</u> GS 2 (Governance)

Why in News: Operation Flood, launched in 1970, ushered in the White Revolution and transformed the dairy sector in India. In order to give further boost to this sector, the government has announced plans for "White Revolution 2.0".
 A new White Revolution: where India stands, where it aims to be

White Revolution 2.0

About

White Revolution 2.0
aims to boost milk
procurement by dairy
cooperatives from 660
lakh kg per day in
 2023-24 to 1.007 lakh kg

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2023-24 to 1,007 lakh kg by 20<mark>28-29.</mark>

- The Ministry of Cooperation's strategy focuses on expanding cooperative reach to new areas and increasing their share in the organized dairy sector.
- This initiative, building on the legacy of Operation Flood, will enhance market access for dairy farmers, generate employment, and empower women.

Target

- White Revolution 2.0 will increase milk procurement of dairy cooperatives by 50%, over the next five years.
- It will do so by providing market access to dairy farmers in uncovered areas and increasing the share of dairy cooperatives in the organised sector.

NDDB's Action Plan for White Revolution 2.0

- To drive the White Revolution 2.0, the National Dairy Development Board (NDDB) plans to establish 56,000 new multipurpose dairy cooperative societies (DCSs) over the next five years and strengthen 46,000 existing ones.
- The strengthening will be done by providing more advanced milk procurement and testing infrastructure.
- Key states for new DCSs include Uttar Pradesh, Odisha, Rajasthan, and Andhra Pradesh.

Funding

- The National Programme for Dairy Development (NPDD) 2.0 will provide the bulk of the funding for White Revolution 2.0.
- The scheme will offer financial aid to set up milk procurement systems, chilling facilities, and capacity-building programs at the village level.
- Additionally, Rs 40,000 will be provided to 1,000 Multipurpose Primary Agricultural Credit Cooperative Societies (MPACSs) to support the infrastructure of dairy cooperatives.

Pilot project

- In February 2023, NDDB launched a Rs 3.8 crore pilot project to set up dairy cooperatives in uncovered gram panchayats in Haryana, Madhya Pradesh, and Karnataka.
- The 79 DCSs established through this pilot now procure 15,000 liters of milk per day from around 2,500 farmers.

• Status of Dairy Cooperatives in India

- Since its creation, in 2021, the Ministry of Cooperation has focused on expanding the network of cooperatives, in particular dairy cooperatives.
- Currently, dairy cooperatives cover around 70% of India's districts, with about 1.7 lakh cooperative societies operating in 2 lakh villages (30% of the total number of villages in the country).
- These cooperative societies procure about 10% of the country's milk production and 16% of the marketable surplus.
- o However, **regional disparities exist**, with higher coverage in states like Gujarat, Kerala, and Sikkim, while regions such as West Bengal and the Northeast lag behind with less than 10% coverage.
- o The government aims to bridge these gaps to expand dairy cooperative networks across India.

• Milk scenario in India

World's top milk producer

- India is the world's top milk producer, with production having reached 230.58 million tonnes during 2022-23.
 - Total milk production increased from 187.75 million tonnes in 2018-19 to 230.58 million tonnes in 2022-23.
 - However, the annual growth rate of production came down from 6.47% to 3.83% during this period.
- About 63% of the total milk production comes to the market; the remaining is kept by producers for their own consumption.
- About two-thirds of the marketable milk is in the unorganised sector.
 - In the organised sector, cooperatives account for the major share.

Average yield

- The average yield is, only 8.55 kg per animal per day for exotic/ crossbred animals, and 3.44 kg/animal/day for indigenous/ nondescript animals.
- The yield in Punjab is 13.49 kg/animal/day (exotic/crossbreed), but only 6.30 kg/animal/day in West Bengal.

Per capita availability of milk

- The national per capita availability of milk is 459 grams/ day, which is higher than the global average of 323 g/ day.
- This number, however, varies from 329 gm in Maharashtra to 1,283 gm in Punjab.

The top five milk producing states

The top five milk producing states are UP (15.72%), Rajasthan (14.44%), Madhya Pradesh (8.73%), Gujarat (7.49%), and Andhra Pradesh (6.70%), which together contribute 53.08% of the country's total milk production.

Contribution of milk group in the agriculture, livestock, forestry, and fishing sector

- The milk group contributed almost 40% (Rs 11.16 lakh crore) of the value of output from the agriculture, livestock, forestry, and fishing sector in 2022-23 much higher than cereals.
- Milk group comprises milk consumed or sold in liquid form, ghee, butter, and lassi produced by producer households.
- The dairy sector provides livelihoods to more than 8.5 crore people directly or indirectly, of whom the majority are women.

4. Blast Furnace

Recent events of importance

• Why in News: Tata Steel Ltd. recently said it had commissioned 'India's largest blast furnace' at Kalinganagar, Odisha, as part of the Phase II expansion of its plant.

• About Blast Furnace:

o It is a **vertical shaft furnace** that **produces liquid metals** by the **reaction of a flow of air** introduced under pressure into the bottom of the furnace **with a mixture of metallic ore, coke**, **and flux** fed into the top.

- o The blast furnace itself is a steel shaft lined with fire resistant, refractory materials.
- The hottest part of the furnace where the walls reach a temperature >300°C is water-cooled.
- The whole structure is **supported from** the **outside by a steel frame.**
- Blast furnaces are **used to produce pig iron from iron ore for** subsequent **processing into steel**, and they are also employed in processing lead, copper, and other metals.
 - The process is continuous, with raw materials being regularly charged to the top of the furnace and molten metal and slag being tapped from the bottom of the furnace at regular intervals.
 - Once a blast furnace is started, it will continuously run for four to ten years with only short stops to perform planned maintenance.
- o Rapid combustionis maintained by the current of air under pressure.
- o Blast furnaces are the largest consumers of materials and energy in the iron and steel-making process.

What is Pig Iron?

- Pig iron is an intermediate product and first product of Iron making reduced from Iron ore.
- Pig iron has a very high carbon content, typically 3.5–4.5%, along with silica, Manganese, Sulphur, Phosphorus, Titanium and other trace elements.
- o It is obtained directly from the blast furnaceand cast in molds.

5. Advocate-on-Record (AoR) GS 2 (Judiciary)

- Why in News: The Supreme Court (SC) recently said that Advocates-on-Record (AoR) in a given case must mark the appearance of only those lawyers who are authorized to appear and argue that case on the particular day
- About Advocate-on-Record (AoR):
 - o The concept of AoR was introduced by the SC with the power given to it under Article 145(1) of the Indian Constitution, which states that the SC may, from time to time, make rules for regulating the practices and procedures in the court.
 - An AoR is a legal professional who is entitled to represent clients and plead for them in the SC.
 - It is a specific category of advocates with rights of audience in the SC.
 - An AoR has the exclusive right to file and conduct cases in the SC.
 - All the procedural aspects need to be completed by AOR with the assistance of a registered clerk.
 - This includes drafting and filing petitions, applications, and other legal documents
 - o Any notice or order/correspondence by the SC is sent to the AoR.
 - They **specialize** in the practice and **procedure** of the SC. They are familiar with the rules and regulations governing the court and play a crucial role in navigating legal matters through the highest court of the country.
 - No other High Court in India has a similar provision.
 - Order IV rule 5 of the Supreme Court Rules, 2013 lays down the requirements to be fulfilled to become an AoR. They are as follows:
 - The Advocate is required to be enrolled with any State Bar Council.
 - The Advocate is required to have a prior experience of at least 4 years.
 - The Advocate has undergone a training of 1 year under a senior AoR.
 - The Advocate has appeared for the examination conducted by the SC.
 - The Advocate is required to have an office in Delhi within a radius of 10 miles from the SC houseand give an undertaking to employ a clerk, who shall be a registered clerk, within one month of being registered as an advocate on record.
 - Once registered, an AOR is **issued a unique identification number**that must be used on all documents filed in the SC.

6. Criticality in a Nuclear Reactor

GS 3 (Science and Tech)

• Why in News: India's third home-built 700 MWe nuclear power reactor has achieved criticality and is expected to start commercial electricity generation soon.

• About Criticality in a Nuclear Reactor:

- Nuclear reactors use uranium fuel rods—long, slender, zirconium metal tubes containing pellets of fissionable material to create energy through fission.
- Fission is the process of splitting the nuclei of uranium atoms to release neutrons that in turn split more atoms, releasing more neutrons.
 - Fission produces a great deal of energy in the form of very high heat and radiation.
 - That's why reactors are housed in structures sealed under thick metal-reinforced concrete domes.
 - Power plants harness this energy and heat to produce steam to drive generators that produce electricity.
- Criticality means that a reactor is controlling a sustained fission chain reaction, where each fission event releases a sufficient number of neutrons to maintain an ongoing series of reactions.
- This is the **normal state of nuclear power generation**.
- Fuel rods inside a nuclear reactor are producing and losing a constant number of neutrons, and the nuclear energy system is stable.
- O Nuclear power technicians have procedures in place, some of them automated, in case a situation arises in which more or fewer neutrons are produced and lost.
- Controlling Criticality:
 - When a reactor is starting up, the number of neutrons is increased slowly in a controlled manner.
 - Neutron-absorbing control rods in the reactor core are used to calibrate neutron production.
 - The control rods are made from neutron-absorbing elements such as cadmium, boron, or hafnium.
 - The deeper the rods are lowered into the reactor core, the more neutrons the rods absorb and the less fission occurs.
 - Technicians pull up or lower down the control rods into the reactor core depending on whether more or less fission, neutron production, and power are desired.
 - Should a malfunction occur, technicians can remotely plunge control rods into the reactor core to quickly soak up neutrons and shut down the nuclear reaction.

What Is Supercriticality?

- At start-up, the nuclear reactor is briefly put into a state that produces more neutrons than are lost.
- This condition is called the supercritical state, which allows the neutron population to increase and more power to be produced.
- When the desired power production is reached, adjustments are made to place the reactor into the critical state that sustains neutron balance and power production.

7. Global Cybersecurity Index

GS 3 (Science and Tech)

- Why in News: India has marked a significant milestone in its cybersecurity efforts by achieving top Tier i.e. Tier 1 status in the Global Cybersecurity Index (GCI) 2024.
- About Global Cybersecurity Index:
 - o It is a trusted reference that measures the commitment of countries to cybersecurity at a global level.
 - o It is to raise awareness of the importance and different dimensions of the issue.
 - Each country's level of development or engagement is assessed along five pillars namely, Legal Measures,
 Technical Measures, Organizational Measures, Capacity Development, and Cooperation and then aggregated into an overall score.

It is published by the International Telecommunication Union (ITU).

• Key highlights of GCI 2024

- The report places 46 countries in Tier 1, the highest of the five tiers, reserved for "role modelling" countries that demonstrate a strong commitment in all five cybersecurity pillars.
- With a remarkable score of 98.49 out of 100, India joins the ranks of 'role-modelling' countries, demonstrating a strong commitment to cybersecurity practices across the globe.
- Most countries are either "establishing" (Tier 3) or "evolving" (Tier 4) in terms of cybersecurity.

• Key facts about International Telecommunication Union

- o It is the **United Nations specialized agency** for information and communication technologies. It was established in 1865 as International Telegraph Union.
- In 1947 the ITU became a specialized agency of the United Nations. It is an intergovernmental organization that coordinates between governments and private sector bodies with respect to global telecommunication and information communication technology (ICT) services.
- Member countries: It has a membership of 193 countries and more than 1000 companies, universities
 and international and regional organizations.
- o Functions:
 - allocate global radio spectrum and satellite orbits;
 - coordination and setting of technical standards related to telecommunication/ICT;
 - work to improve access to ICTs in underserved communities worldwide;
- o India and ITU:India has been an active member of the ITU since 1869 and has been a regular member of the ITU Council since 1952.



MCQ Current Affairs 21st Sept, 2024

1. Which one of the following is the primary goal of the Europa Clipper Mission, recently seen in the news?

- a) To study Mars' atmosphere
- b) To explore Saturn's rings
- c) To study Jupiter's icy moon
- d) To land a probe on the surface of Mercury
- 2. Valmiki Tiger Reserve is located in which one of the following states?
- a) Madhya Pradesh
- b) Karnataka
- c) Maharashtra
- d) Bihar

3. Consider the following statements regarding Blast Furnace:

- A. It is a vertical shaft furnace used primarily to produce pig iron from iron ore.
- B. Blast furnaces are the largest consumers of materials and energy in the steel-making process.

Which of the statements given above is/are correct?

- a) A only
- b) Bonly
- c) A and B
- d) Neither of two

4. What is 'Criticality' in the context of a nuclear reactor?

- a) A reactor condition where fission stops completely.
- b) A condition where the reactor overheats and shuts down automatically.
- c) The maximum temperature a reactor can reach.
- d) None of the above

5. Global Cybersecurity Index, recently in the news, is published by:

- a) World Bank
- b) World Trade Organization
- c) Asian Development Bank
- d) International Telecommunication Union

MCQ Current Affairs 21st Sept, 2024

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- 2. d
- 3. С
- 4. d
- 5. d

