



April – 21

TNPSC BITS

- ❖ International Fleet Review (IFR) is a parade of naval ships, aircraft and submarines, and is organized by nations to promote goodwill, strengthen cooperation and showcase their organizational capabilities.
 - Indian Navy warships INS Kolkata and INS Shakti will be participating in IFR 2109, China.
- ❖ Former Cricketer Ravi Shastri is appointed as Ras Al Khaimah Economic Zone (RAKEZ) exclusive Corporate Ambassador to the Indian Business Community.
 - o Ras Al Khaimah (RAK) is one of the seven emirates that make up the United Arab Emirates (UAE).
- United Nations (UN) owes India USD 38 million, the highest it has to pay to any country, for the peacekeeping operations as of March 2019.
- ❖ In a first, heart surgeons in Poland used 3D goggles to help them see inside a patient's chest as they opened up a narrowed heart valve.

TAMIL NADU

Rise in Sea Level

- ❖ According to a study by Geology department of Anna University, 1.5 sq. km of land along the Chennai coastline will be submerged by 2100.
- ❖ The sea would be moving closer to the land by 0.5 metres every year because of the increase in sea level.
- ❖ For the past 50 years, a 3.6mm rise in sea level a year has been reported in the Bay of Bengal.
- ❖ The rise in the Bay of Bengal appears to be higher than in other Asian regions.
- ❖ The increasing sea level would also force the water table along the coastline to move upwards.
- Sea water intrusion would replace the freshwater at the bottom of the aquifer.

Veeranam Lake

❖ Water released from Mettur Dam has reached Veeranam lake and it is brimming with water.





- ❖ Veeranam lake meets more than 35% of water requirement in Chennai city.
- ❖ The total capacity of the lake is 1,465 million cubic feet (mcft) of water.
- Everyday 6 mcft (180 million litres) is being drawn from the lake.
- ❖ The Chennai city's water requirement is 0.5 million cubic feet (mcft) per day.
- ❖ This water reaches the city through pipes passing through Villupuram and Kancheepuram districts.



History

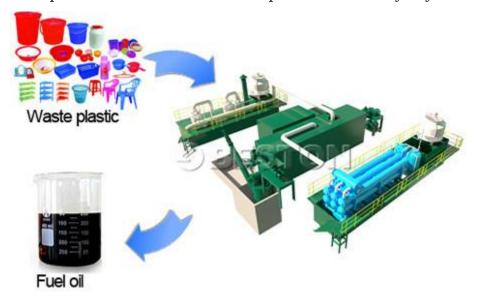
- ❖ Veeranam Lake was built in the Tenth Century during the time of Greater Cholas, from 907–955 AD.
- It was created by Rajaditya Chola.
- ❖ He named it after his father Parantaka I Chola, who had the title "Veeranarayanan".
- Veeranarayanan lake later came to be called as Veeranam Lake.
- ❖ Veeranam lake gets water from Kollidam via Vadavaru River and water released from Mettur Lower Anaicut.





Pyrolysis Plant

- ❖ The Greater Chennai Corporation (GCC) is planning to set up a pyrolysis plant to manage plastic waste and produce fuel from it.
- ❖ The GCC produces about 500 tonnes of plastic waste every day.



- ❖ The pyrolysis process breaks down the organic compounds in plastic under extremely high temperatures in the absence of oxygen and converts them into fuel.
- ❖ The fuel is sold for Rs 25-35 per litre and 2 kg of plastic waste is required to generate one litre of the fuel.
- ❖ The fuel can be used in cement, steel, glass, brick factories and also in boilers.
- ❖ It's also used in trucks, generator sets, steam ships and other vehicles.

NATIONAL

Modi Script

- ❖ A stone inscription in Modi script belonging to the period of the Maratha ruler of Thanjavur has been discovered at the Somanathar temple in Thanjavur district.
- ❖ Modi is a script used to write the Marathi language primarily spoken in Maharashtra.





❖ The inscription recorded the donations made by Prathaba Simhan (A.D. 1753) to the temple.

Dial 112

- ❖ Twenty states and Union territories have joined in a pan-India network of single emergency helpline number 112.
- ❖ The Emergency Response Support System (ERSS) envisages a single pan-India emergency number '112', to target all types of emergencies.
- ❖ The '112' helpline is an integration of police (100), fire (101) and women (1090) helpline numbers

Women Safety

- ❖ To ensure safety of women, an exclusive feature called SHOUT feature has been introduced in '112 India' mobile app.
- ❖ Using SHOUT, women can get immediate assistance from
 - o Registered volunteers in the vicinity





- o Emergency Response Centre (ERCs).
- ❖ The project is being implemented under Nirbhaya Fund
- ❖ Nirbhaya fund is exclusively set up for projects designed to improve the safety and security of women.

INS Imphal

- ❖ The Indian Navy launched guided missile destroyer Imphal at Mazagon Dock Shipbuilders in Mumbai.
- ❖ It is the first warship to be christened after a city in the north-east.
- ❖ Imphal is the third ship after Visakhapatnam and Mormugao to be launched under a 'Project-15B'.
- ❖ It has been designed indigenously by the Navy's Directorate of Naval Design and is built at Mazagon Dock Shipbuilders.
- The naming tradition of Indian Naval ships

Type of Ship	Named After	Example
Destroyers	State Capital or Big City	INS Delhi, INS Chennai
Smaller Frigates	Mountain ranges, Rivers or Weapons	INS Shivalik, INS Trishul
Corvettes	Small personal weapons	INS Kirpan, INS Khanjar

Sky Track

- ❖ The Airports Authority of India (AAI) has tied up with American company Aireon which provides space-based global air traffic surveillance system.
- ❖ Indian air traffic controllers (ATC) get only a rough idea of position of aircraft when it flies over the oceans.
- * The tie up will enable India to track exact location of the planes even over ocean.





ECONOMY

TCS - India Post

- Tata Consultancy Services (TCS) has partnered with India Posts in a multi-year deal to make post offices a multi-service digital hub
- ❖ TCS will integrate the network of over 150,000 post offices and create the largest distributed ePostal network in the world.

SCIENCE AND TECHNOLOGY

Genome Sequencing

- Two labs of Council of Scientific and Industrial Research (CSIR) have initiated a genome sequencing project.
- They are
 - o Centre for Cellular and Molecular Biology (CCMB)
 - o Institute of Genomics and Integrative Biology (IGIB)
- ❖ They have planned to sequence at least 10,000 Indian genomes.
- Genomes will be sequenced based on a blood sample.
- The project serves two purposes
 - o Educating students on the "usefulness" of genomics
 - To determine unique genetic traits of the citizens and their susceptibility (and resilience) to disease.

ENVIRONMENT

Invasive Bull Frog

- ❖ The Indian bull frog (Hoplobatrachus tigerinus) which is native to the Indian mainland, has recently invaded the Andaman archipelago.
- It has grown into a widespread invasive species.
- ❖ It threatens Andaman's local economy and ecosystem by eating native wildlife including fish, lizards and even poultry.



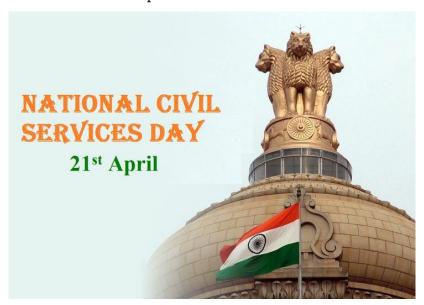




IMPORTANT DAYS

National Civil Service Day

- ❖ National Civil Services Day is observed on April 21 across India.
- ❖ The first civil service day was observed in 2006.
- On this day civil servants rededicate themselves to cause of the citizens and renew their commitment to public service.







- ❖ This day coincides with the date on which Sardar Vallabh Bhai Patel had addressed the first batch of civil service probationers at Metcalfe House, New Delhi in 1947.
- ❖ In this famous speech, Sardar Patel had referred to bureaucrats as "steel frame of India".
- ❖ The Civil Services Day 2019 was NOT observed on this year due to Lok Sabha elections.