

January - 09

TNPSC BITS

- ❖ IIT Bombay has developed an instrument named GolDN (Golden) for melt-mixing of waste thermoplastic polymers and inorganic particulate fillers to manufacture polymer composites.
- ❖ GlobalSpace Technologies Ltd unveiled 'GoRoga,' an anti-stress wearable.
 - It is India's first in this kind.
- ❖ All India Conference of Directors General and Inspectors Generals of Police 2023 was held at Jaipur, Rajasthan.

TAMIL NADU

1 trillion USD economy by 2030



- ❖ Economists Raghuram Rajan and Arvind Subramanian, members of the Tamil Nadu Chief Minister's Economic Advisory Council, speak on 'The Big Bets for Tamil Nadu's Trillion Dollar Economy' at Global Investors Meet 2024.
- ❖ To achieve the goal, the State has to grow 18% for the next seven to eight years.
- ❖ No country at any point of time has done 18% ever.
- ❖ China has grown for 10-11% over 40 years.
- ❖ China's share of global exports in labour intensive sectors is 40%, while India's share is 35%.
- ❖ If China drops to 35% and India can take its share to 12%.



- ❖ Low-cost manufacturing in the state would create more employment opportunities for the unskilled workforce.
- ❖ While Tamil Nadu's debt level is high, it is not a matter of concern when compared to other States.

T.N. Global Investors Meet - first day

- ❖ The Tamil Nadu Global Investors Meet (GIM) 2024 was hosted by the government at the Chennai Trade Centre.
- ❖ The previous two editions of the GIM were held in 2015 and 2019 under the erstwhile AIADMK regime.
- ❖ The GIM, will act as a catalyst for economic and industrial growth.
- ❖ The event has witnessed encouraging response and is expected to bring pride and investment to Tamil Nadu.
- ❖ Multiple policies have been announced by the State.
- ❖ The CM inaugurated First Solar's fully integrated solar manufacturing plant in Sriperumbudur.
- ❖ A slew of MOUs was exchanged through the day.
- ❖ The State government signed a pact with Vietnamese electric vehicle (EV) maker VinFast for setting up its plant in Thoothukudi.
- ❖ Tata Electronics signed an MoU to invest ₹12,082 crore for an enclosure manufacturing and mobile phone assembly unit in Krishnagiri district.
- ❖ Hyundai Motor India has committed additional investments of ₹6,180 crore for setting up a unit to manufacture internal combustion engine (ICE) and EV passenger cars, and EV batteries in Kancheepuram district.
- ❖ It will collaborate with IIT-Madras on "Hydrogen Valley Innovation".
- ❖ Qualcomm announced a significant expansion in Chennai with a new facility for their Design Centre.
- ❖ Apple's supplier Pegatron inked a pact for investing ₹1,000 crore on a computing, communications, and consumer electronics manufacturing unit in Chengalpattu.
- ❖ JSW Energy will invest around ₹10,000 crore for its expansion plans in Thoothukudi and Tirunelveli districts.
- ❖ Godrej Consumer Products Ltd. is investing around ₹515 crore and TVS Group will be investing ₹5,000 crore to provide employment to around 500 persons.
- ❖ Mitsubishi will be investing ₹200 crore for a project in Gummidipoondi near Chennai.

- ❖ AP Moller Maersk has signed an MoU for transport and logistics solutions and Global Capability Centres across Tamil Nadu.
- ❖ Reliance Industries Limited, said the company is committed to making new investments in Tamil Nadu in renewable energy and green hydrogen sectors.
- ❖ Jio has invested over ₹35,000 crore in Tamil Nadu, bringing the fruits of digital revolution to 35 million subscribers in every town and village in the State.
- ❖ Godrej Consumer Products Limited said the company aspires to develop the Chengalpattu facility as a “lighthouse factory”.
- ❖ Here the “best in sustainability, safety and automation is done with an inclusive and gender-balanced workforce”.
- ❖ The government has given incentives on its commitment to employ at least 50% of women and 5% of employees from the LGBTQI community and persons with disabilities.



NATIONAL

Rashtriya Khel Protsahan Puruskar 2023

- ❖ The Ministry of Youth Affairs & Sports announced ‘Rashtriya Khel Protsahan Puruskar’ 2023.

- ❖ It is given to corporate entities (both in private and public), Sports Control Boards, NGOs, including sports bodies at the State and National level, who have played a visible role in the area of sports promotion and development.
- ❖ The winners are
 - Identification and nurturing of budding / young talent - Jain Deemed to be University, Bengaluru.
 - Encouragement to sports through Corporate Social Responsibility - Odisha Mining Corporate Limited.



SCIENCE AND TECHNOLOGY

Plant cells to produce cancer drug



- ❖ Researchers at the Indian Institutes of Technology Madras and Mandi have metabolically engineered plant cells to increase production of anti-cancer drug camptothecin (CPT).

- ❖ The allopathic medicine is produced using *Nathapodytes nimmoniana*, a native, endangered plant.
- ❖ It requires nearly 1,000 tonnes of plant material to extract 1 tonne of CPT.
- ❖ The International Union for Conservation of Nature has red-listed the plant.
- ❖ In the past decade alone there has been a 20% decline in the plant's population.

ENVIRONMENT

Status of Northeast African Cheetah

- ❖ The experts have appealed to the International Union for Conservation of Nature (IUCN) to reclassify the status of the Northeast African Cheetah to 'endangered' from 'vulnerable'.
- ❖ They are primarily found in the Horn of Africa.
- ❖ Its last wild count was 260–590 mature individuals.



REPORTS AND INDICES

Counting the Cost 2023: A Year of Climate Breakdown Report

- ❖ Floods and storms accounted for 85 per cent of the world's top 20 most expensive disasters (17) linked to climate change in 2023.
- ❖ The 20 disasters analysed by the report occurred in 14 countries spread across six continents (excluding Antarctica).
- ❖ The researchers calculated the economic costs of disasters per capita.
- ❖ The disasters ranged from wildfires, drought (climatological disasters) to floods and storms (hydrological and meteorological disasters).

- ❖ 74 per cent of economic losses in the United States (worth \$76.4 billion) were insured.
- ❖ Compare this with the Asia-Pacific region, where just 13 per cent of economic losses (\$22.2 billion) were insured.

Country	Event	Cost per person \$
Hawaii/ USA	Wildfire	4,161
Guam	Storm	1,455
Vanuatu	Storm	947
New Zealand	Storm	468
New Zealand	Flood	371
Italy	Flood	164
Libya	Flood	105
Peru	Flood	66
Spain	Drought	50
Myanmar	Storm	41
Chile	Flood	39
Haiti	Flood	36
Mexico	Storm	35
Chile	Wildfire	30
USA	Storm	25
China	Flood	23
Peru	Storm	20
Malawi	Storm	17
USA	Storm	16
Peru	Flood	9

PERSONALITIES, AWARDS, AND EVENTS

Winners Under NIAC Program



- ❖ NASA announced the winners of Phase 1 of the 2024 NIAC (NASA Innovative Advanced Concepts) programme.
- ❖ This programme fosters pioneering ideas by funding early-stage technology concept studies for future consideration and potential commercialization.

- ❖ In phase 1, NASA is funding 13 concepts it has chosen from among companies and institutions across the United States.

IMPORTANT DAYS

African National Congress Foundation Day 2024 - January 08

- ❖ The African National Congress (ANC) was first established in 1912 as a national liberation movement.
- ❖ On this day, all the African people united across the world for their rights.
- ❖ The aim of this organisation was to unite and bring all the black South Africans together to achieve their rights and freedoms.
- ❖ The African National Congress has consistently been in power since the transition to democracy in April 1994.

