

September - 19

TNPSC BITS

- ❖ Chief Minister and DMK president M.K. Stalin have unveiled the logo for the 75th anniversary celebrations of the party, which was launched on September 17, 1949.
- ❖ All India Official Language Conference was organized on the occasion of Hindi Diwas at Bharat Mandapam, New Delhi.
- ❖ Rajbhasha Kirti Award was conferred to Department of Administrative Reforms and Public Grievances.
- ❖ Nibe Space (NSPL), a subsidiary of Nibe, announced its vision to establish India's first multi-sensor, all-weather and the high-revisit Earth observation satellite constellation.
- ❖ BRICS Literature Forum 2024 was held in Kazan, Russia under the theme "World Literature in the New Reality: Dialogue of Traditions, National Values, and Cultures."
- ❖ NPCI has raised the UPI transaction limit to ₹5 lakh for sectors like tax payments, healthcare, education, and financial investments, effective September 16, 2024.
- ❖ The World Health Organization it has granted its first authorization for use of a vaccine against mpox in adults.

TAMIL NADU

Radio-collar for Nilgiri Tahr

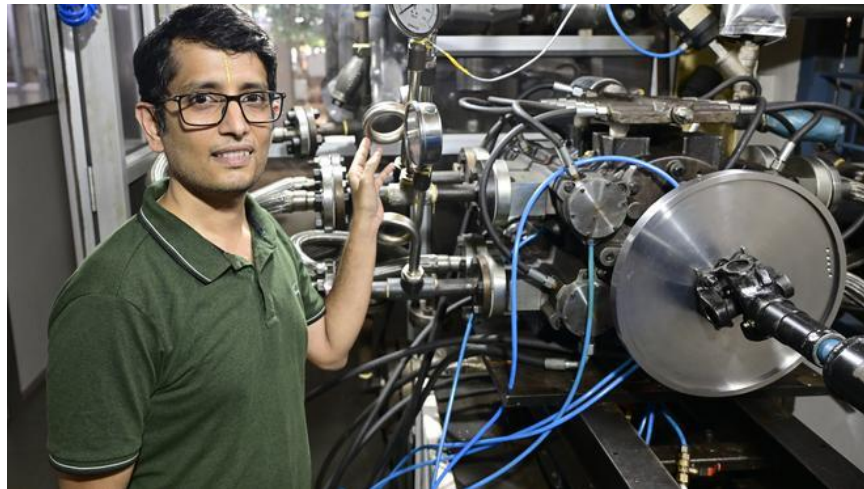


- ❖ The Tamil Nadu Forest Department has fixed a tracking device on Nilgiri tahr in Anamalai Tiger Reserve for study purpose.

- ❖ Earlier, a Nilgiri tahr was radio-collared in the Mukurthi National Park.
- ❖ The tracking device with GPS (global positioning system) emitted signals and showed the location of the radio-collared individual for every 12 hours.
- ❖ The device could generate signals in this frequency for more than two years.
- ❖ The radio-collaring and monitoring is one of the nine components of the Project Nilgiri Tahr.
- ❖ It is monitoring the species with the tracking device will help the project team understand their home range and other behavioural patterns.

1 GT in CO₂ reduction by 2035

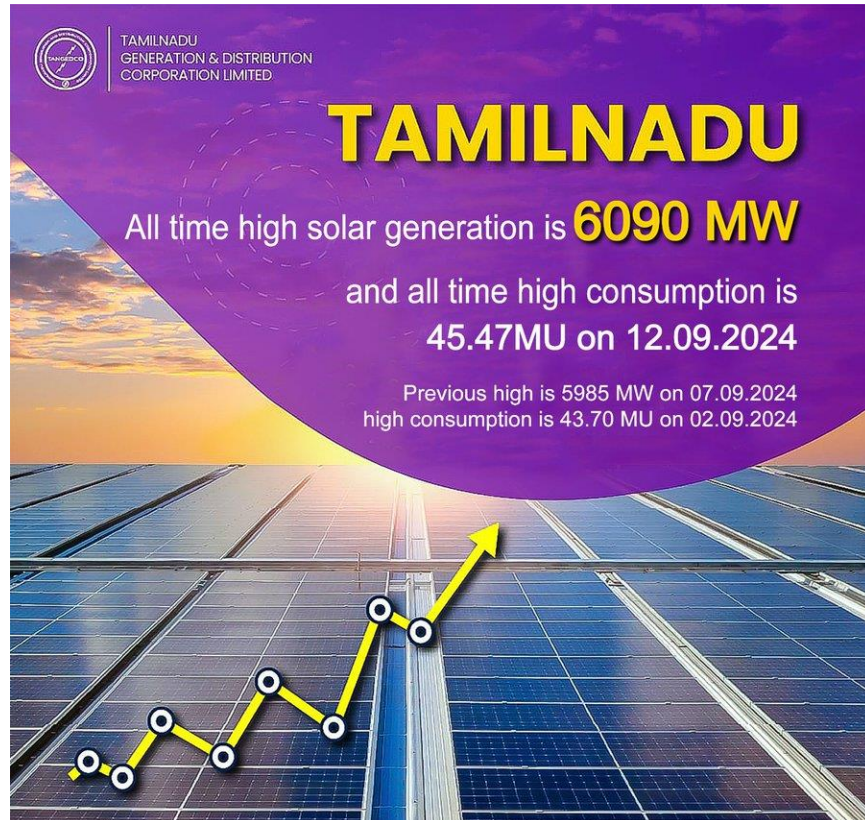
- ❖ IIT Madras has established a research group that is targeting over 1 Giga Ton (GT) in cumulative CO₂ emission reduction by 2035.
- ❖ The Consortium aims to be a critical contributor to India's Net Zero journey by providing valuable R&D assistance to Indian industries in low carbon energy transition pathways.
- ❖ This research group was established at IIT-Madras, with funding from the 'Institute of Eminence' initiative of the Government of India.



Solar energy generation and consumption 2024

- ❖ Tamil Nadu's solar energy generation and consumption reached a new high recently.
- ❖ Solar energy generation touched 6,090 MW, surpassing the previous high of 5,985 MW achieved on September 7.
- ❖ The solar energy consumption has reached 45.47 million units, surpassing the previous record of 43.70 million units achieved on September 2.

- ❖ Tamil Nadu has an installed solar energy capacity of over 7,800 MW.
- ❖ So far in September this year, the cumulative solar generation in the State stood at 521.73 million units.
- ❖ The State's current peak power demand is around 18,115 MW, and the daily consumption, about 400 million units.
- ❖ So far in 2024-25, the maximum power demand is 20,830 MW.
- ❖ The maximum daily consumption is 454.320 million units.



State Planning Commission report on LEZ


- ❖ Tamil Nadu's State Planning Commission has come out with a report on 'Low Emission Zoning – A Toolkit for Chennai'.
- ❖ It is collaborated with the British Deputy High Commission, Chennai, through the UK Partnering for Accelerated Climate Transitions (UK PACT) program.
- ❖ A LEZ is an area in which use of more polluting vehicles are restricted based on vehicle emission standards and levying charges on non-compliant vehicles.
- ❖ The primary objective of an LEZ should be to bring down ambient pollution concentrations to improve public health and deliver compliance with legal limit values.

- ❖ Chennai is India's fourth largest city, with a population of around 9 million.
- ❖ The city is expanding rapidly, with some of the peripheral areas seeing annual population increases of around 50%.

Green goals



Some of the key highlights of the T.N. State Planning Commission's report, 'Low Emission Zoning – A Toolkit for Chennai'

- Low-Emission Zone (LEZ) is an area where use of more polluting vehicles is restricted by way of having in place vehicle emission standards and levying charges for non-compliance
- Implementing an LEZ is usually the most cost-effective and efficient way to reduce emissions from the most polluting vehicles in areas having a high population density
- Chennai is a rapidly growing city, and action needs to be taken to mitigate air pollution
- In the short-term, in Chennai, promotion and development of alternatives to personal transport should be explored
- A long-term victory would be to introduce LEZs once alternative transport modes become efficient and reliable



NATIONAL

Delhi Declaration on Civil Aviation



2nd Asia Pacific Ministerial Conference on Civil Aviation

- ✈ Proclamation of the Delhi Declaration by Hon'ble Prime Minister Shri Narendra Modi, setting a roadmap for sustainable aviation
- ✈ Election of Union Civil Aviation Minister Shri Ram Mohan Naidu as Chairman, leading the region towards collaborative growth
- ✈ Participation from 29 countries and 8 regional organizations fostering international cooperation
- ✈ Celebration of 80 successful years of ICAO and the Chicago Convention reflecting on decades of progress

- ❖ The Declaration was adopted unanimously after the 2nd Asia Pacific Ministerial Conference in New Delhi.
- ❖ This comprehensive framework is aimed at enhancing the regional cooperation, addressing the emerging challenges and fostering sustainable growth in the civil aviation sector in the Asia-Pacific region.

- ❖ India has emerged as the third-largest domestic aviation market in the world, after the US and China.

SCIENCE AND TECHNOLOGY

Largest genome of animal

- ❖ The South American lungfish is an extraordinary creature and a living fossil.
- ❖ It is inhabiting slow-moving and stagnant waters in Brazil, Argentina, Peru, Colombia, Venezuela, French Guiana and Paraguay.
- ❖ It is the nearest living relative to the first land vertebrates and closely resembles its primordial ancestors dating back more than 400 million years.
- ❖ This freshwater species (*Lepidosiren paradoxa*) also has the largest genome – all the genetic information of an organism – of any animal on the earth.
- ❖ Its genome is to be about 30-times the size of the human genetic blueprint.
- ❖ The length of the DNA in each cell of this lungfish would extend almost 60 metres.
- ❖ The human genome would extend a mere 2 metres.

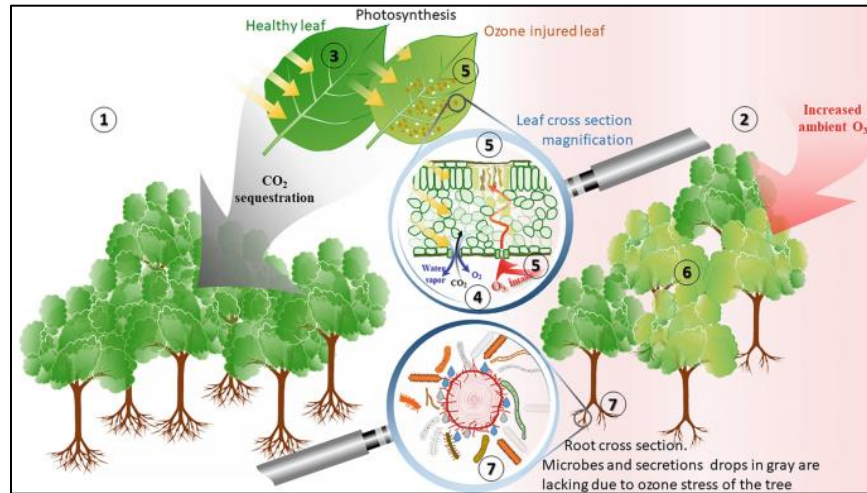


ENVIRONMENT

Ozone Pollution and Tropical Forest Growth

- ❖ The ground-level ozone is significantly hampering the growth of tropical forests.

- ❖ It is resulting in an estimated 290 million tonnes of carbon dioxide remaining uncaptured annually.
- ❖ This low-lying ozone interferes with plants' ability to absorb carbon dioxide and poses health risks to humans.
- ❖ The research indicates that the ground-level ozone reduces new yearly growth in tropical forests by an average of 5.1%.
- ❖ The effect is even more pronounced in certain regions, with Asian tropical forests experiencing a staggering 10.9% loss in new growth.



REPORTS AND INDICES

TIME's World's Best Companies 2024

Rank	Company name	Headquarters	Overall score	Sustainability transparency rank	Employee satisfaction rank	Revenue growth	Industry
1	Apple	United States	97.75	1	4	Very High	IT, Electronics, Hardware & Equipment
2	Accenture	Ireland	97.7	4	21	Very High	Professional Services
3	Microsoft	United States	97.65	112	2	Outstanding	IT, Electronics, Hardware & Equipment
4	BMW Group	Germany	97.41	172	7	Outstanding	Automotive Industry & Suppliers
5	Amazon	United States	96.47	301	3	Outstanding	Technology, Media & Services
6	Electricite de France	France	96.22	181	27	Outstanding	Utilities
7	American Express	United States	96.0	78	26	Outstanding	Banking & Financial Services
8	Meta Platforms	United States	96.0	65	8	Very High	Technology, Media & Services
9	Siemens	Germany	95.96	41	10	Very High	Conglomerate
10	JPMorganChase	United States	95.93	148	18	Outstanding	Banking & Financial Services

- ❖ HCL Tech has been named as the no.1 India-headquartered company in TIME magazine's World's Best Companies 2024 list.
- ❖ HCL Tech is ranked at 112th positions, followed by Infosys at the 119th position, and Wipro at 134 positions.



- ❖ Mahindra Group, Axis Bank, SBI, ICICI Bank, L&T, Kotak Mahindra Bank, ITC Limited, Reliance Industries, and Adani Group are the top Indian firms featured to this list.
- ❖ US-based tech giant Apple has topped the list globally.
- ❖ It is followed by Ireland-based tech major Accenture.
- ❖ Microsoft, BMW Group, and Amazon featured next in line.

IMPORTANT DAYS

International Day for south-south cooperation 2024 - September 12



- ❖ It provides an opportunity for member states to reaffirm the value and benefits of South-South cooperation.
- ❖ “A better tomorrow through South-South Cooperation” is the theme of this year.
- ❖ The South-South cooperation is a manifestation of solidarity among peoples and countries of the South that contributes to their national well-being, their national and collective self-reliance and the attainment of internationally agreed development goals.

World First Aid Day 2024 - September 14

- ❖ The second Saturday of September is observed as the World First Aid Day since 2001.
- ❖ The day aims to educate people about the crucial role first aid plays in tackling medical emergencies and encouraging them to come forward when a situation arises.

- ❖ This year's theme is "First Aid and Sports".



International Day of Science, Technology and Innovation for the South 2024 - September 16



- ❖ This day aims to foster innovation and build scientific capacities in developing nations.
- ❖ The leaders of the G77 and China agreed to designate this day during the Summit on Science, Technology, and Innovation, held in Havana.



- ❖ It aims to bridge the gap between developed and developing countries, encouraging collaboration and knowledge sharing across borders.

