

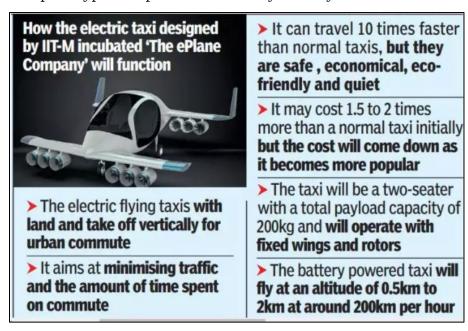


April - 20

TAMIL NADU

E-taxi

- ❖ The IIT-Madras incubated start-up has designed an electric flying taxi for urban commute.
- This can carry people to their destination
 - o 10 times faster,
 - o safer,
 - o economical,
 - o noise free and
 - o eco-friendly.
- ❖ The battery powered taxi will have a capacity of 200kg payload.
- It can to accommodate two passengers
- ❖ The final prototype is expected to be ready in early 2022.



Rare stoneware (Seed crusher) near Uttiramerur

- ❖ A rare stone has been found in Vinnamangalam village near Uttiramerur in Kanchipuram district.
- ❖ Buried in the soil, it dates back to the 15th century.

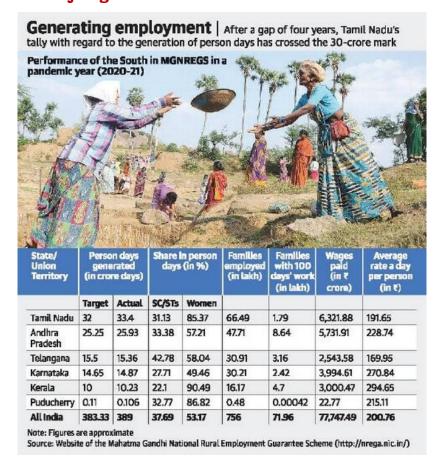




Line 3 had inscriptions on it.



T.N. sets record in job guarantee scheme







- ❖ Tamil Nadu has created a record in the implementation of the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) in the just-concluded financial year (2020-21).
- ❖ After four years, the number of person days generated in the State crossed the 30-crore-mark.
- ❖ It stood at 33.4 crore person days.
- ❖ For 2020-21, the Centre had fixed a target of 27 crore person days for the State.
- ❖ Later, it revised the target to 32 crore person days.
- ❖ Salem was one of those districts that exceeded the target of person days last year, generating about 1.24 crore person days against the approved 1.12 crore person days.
- * Kancheepuram's performance was said to be impressive in natural resources management, water conservation and plantation.

NATIONAL

India Energy Dashboards

- ❖ The Niti Aayog recently launched the India Energy Dashboards Version 2.0.
- ❖ It will provide single window access to the data related to utilisation, pricing, production, distribution of energy in the country.
- ❖ It will also provide data from schemes such as Saubhagya, PRAAPTI, UJALA and Vidyut PRAVAH.
- ❖ It will provide data from Central Electricity Authority, Ministry of Petroleum and Natural Gas and from Coal Controller's Organisation.
- ❖ The India Energy Dashboard Version 1.0 was launched in 2017.



INDIA ENERGY DASHBOARDS



One Stop Destination for India's Energy Data







INTERNATIONAL

Freedom of Navigation Operation

- ❖ The US Navy recently conducted Freedom of Navigation Operation in the Indian Ocean Region near Lakshadweep.
- ❖ During the operation, the US warship entered the Exclusive Economic Zone of India without seeking prior consent from India.
- ❖ According to the United Nations Convention of the Law of the Sea (UNCLOS), countries cannot prevent ships from using Exclusive Economic Zone.
- ❖ However, according to Indian laws, any foreign military must inform before conducting any activity in the Exclusive Economic Zone of India.
- ❖ India, being a developing nation, is yet to explore its EEZ to the fullest.

ECONOMY

Petroleum consumption in India

- ❖ The Ministry of Petroleum recently released a report on petroleum consumption of India.
- ❖ According to the report, fuel consumption of the country reduced by 9.1% in the year 2020-21 as compared to that of the previous year.
- ❖ This is the first time the petroleum consumption contracted to the highest since 1998-99.

India's Debt Ratio

- ❖ The International Monetary Fund recently announced that the debt to GDP ratio of India increased from 74% to 90% due to COVID-19 crisis.
- ❖ This is to increase to 99% in 2021.
- ❖ The international financial organisation has also stated that this is to reduce to 80% after economic recovery.
- ❖ The Debt to GDP ratio is the ratio between the debt of the Government measured in the units of its currency to the GDP measured in the same unit.
- ❖ When the Debt to GDP ratio is low, it means that the country produces and sells goods and services that are sufficient to pay back debts without incurring further debts.
- ❖ The Debt to GDP ratio of India has remained 70% since 1991.

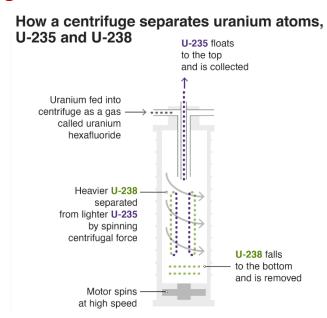




❖ The Public Debt in India is the total liability of the Union Government that must be paid from the Consolidated Fund of India.

SCIENCE AND TECHNOLOGY

Iran Nuclear Program



- ❖ Iran recently launched Advanced Nuclear Centrifuges at the Natanz Nuclear Plant to mark its National Nuclear Technology Day.
- ❖ Iran has started enriching its uranium supply to 60 percent purity.
- ❖ Iran has ever come to this level for the first time.
- It is the closest level needed for a weapon.
- Under the Joint comprehensive Plan of Action (JCPOA), also known as the 2015 Nuclear Agreement, Iran is restricted to use only certain number of Uranium enrichment centrifuges.
- ❖ However, in May 2018, the US Government under Donald Trump abandoned the agreement and reimposed sanctions on Iran.
- The current US Government under Joe Biden has pledged to return to JCPOA.

Centrifuge

- ❖ It is used to separate particles suspended in a medium.
- ❖ In a Nuclear Centrifuge, Uranium-235 is separated from Uranium-238.
- ❖ The Nuclear Fuel used in nuclear reactor must have higher concentration of Uranium-235 isotope than that of its natural form, that is, Uranium-238.





❖ The Uranium-235 is more radioactive than Uranium-238.

NanoSniffer

- ❖ The Union Education Minister recently launched the world's first Microsensor based Explosive Trace Detector called the "NanoSniffer".
- ❖ It was developed by an IIT Bombay incubated startup called NanoSniff Technologies.
- ❖ The NanoSniffer can detect explosives in less than ten seconds.
- ❖ It can detect all class of military, homemade and conventional explosives.
- ❖ It can detect even nano gram quantities of explosives.
- ❖ The Explosive Trace Detection is the technology used to detect explosives of small magnitude.
- ❖ The three main characteristics of Explosive Trace Detection are sensitivity, light weight, and size.

IMPORTANT DAYS

International Haiku Poetry Day - April 17

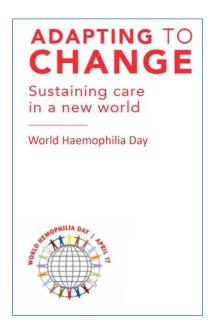
- ❖ It is an initiative of The Haiku Foundation.
- ❖ A haiku is an ancient form of Japanese poetry.

World Hemophilia Day - April 17

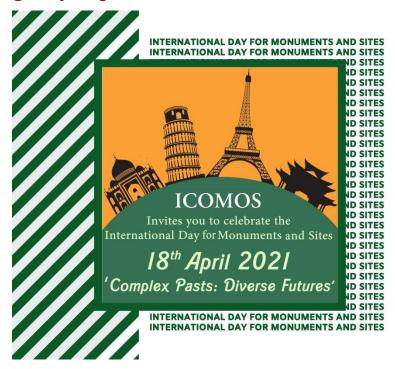
- ❖ The theme of the event this year is "Adapting to change: sustaining care in a new world".
- It is an initiative of 'World Federation of Haemophilia'.
- ❖ April 17 was chosen in honour of Frank Schnabel's birthday.







World Heritage Day - April 18



- It is also known the International Day for Monuments and Sites.
- ❖ It was proposed by the International Council on Monuments and Sites (ICOMOS) on 18 April 1982 and approved by the General Assembly of UNESCO in 1983.
- ❖ The 2021 theme is "Complex Pasts: Diverse Futures".





- ❖ Presently, there are 38 World Heritage Sites located in India that include 30 Cultural properties, 7 Natural properties and 1 mixed site.
- ❖ The Mixed site is Khangchendzonga National Park.
- ❖ In 2019, 'Jaipur City' became the 38th addition of India to the list under Culture.
- ❖ India has the sixth largest number of sites in the world.
- ❖ So far, only China, Italy, Spain, Germany, and France have more locations on the list than India.

