

February - 12

TNPSC BITS

- ❖ Indian Space Research Organisation (ISRO) has decommissioned the INSAT-4B.
 - It is an Indian communications satellite that forms part of the Indian National Satellite System.

NATIONAL

Biomass-based hydrogen plant

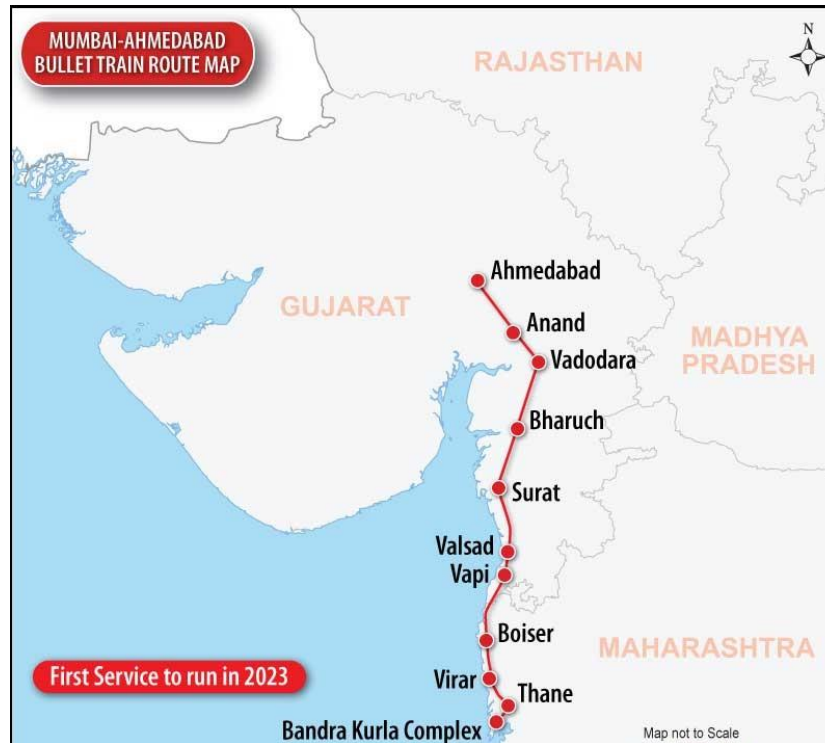
- ❖ India's first commercial-scale biomass-based hydrogen plant will come up in the Khandwa district of Madhya Pradesh.
- ❖ Every day this plant will produce one tonne of hydrogen, from 30 tonnes of biomass feedstock.
- ❖ The plant is being put up by a joint venture of Watomo Energies Ltd and Biezel Green Energy.
- ❖ The company owns the technology for a 'thermally accelerated anaerobic digestion (TAD) reactor' that can produce hydrogen, methane, and biochar from biomass.



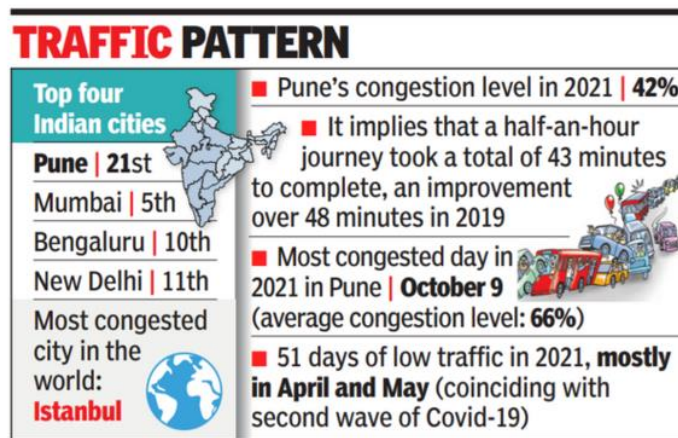
India's first bullet train route

- ❖ The Mumbai-Ahmedabad bullet train project will be India's first bullet train route.

- ❖ While Surat city will get India's first bullet train station.
- ❖ Of the 508.17-kilometer Mumbai-Ahmedabad bullet train project, 155.76 km is in Maharashtra, 384.04 km in Gujarat, and 4.3 km in Dadra and Nagar Haveli.



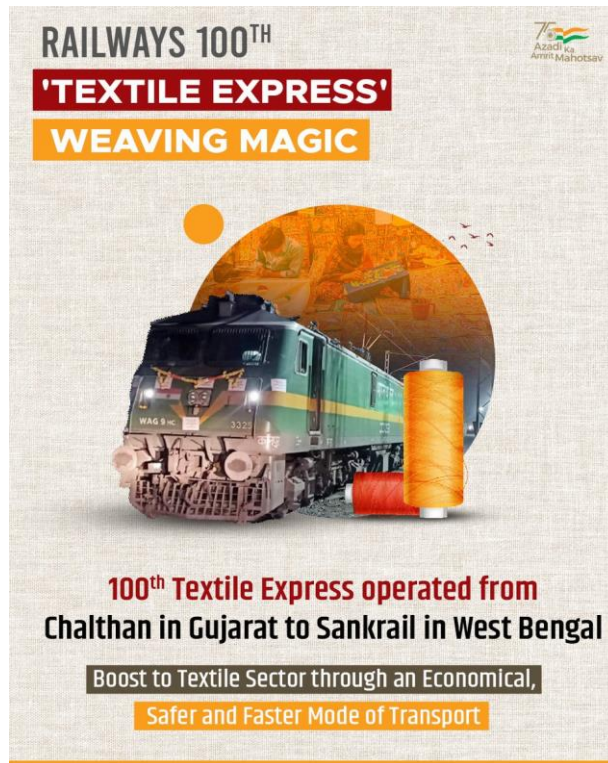
TomTom Traffic Index Ranking 2021



- ❖ As per the ranking, Mumbai has been ranked at 5th, Bengaluru at 10th in terms of the most congested cities in the world in 2021.
- ❖ Delhi and Pune ranked 11th and 21st among 404 cities across 58 countries.

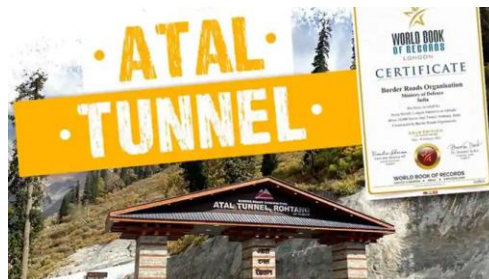
- ❖ Istanbul, Turkey has been declared as the most congested city in the world as per the ranking.

100th textile express



- ❖ Mumbai Central Division of Western Railway achieved a milestone of loading the “100th textile train” from Chalthan in the Surat area to Sankrail in Kharagpur Division, South East Railways.
- ❖ The first train was flagged off on September 1, 2021, by Minister of State for Railways and Textiles, Darshana Jardosh.
- ❖ It was flagged off from Udhna.

Atal Tunnel



- ❖ Atal Tunnel has officially been certified by the World Book of Records, as the 'World's Longest Highway Tunnel above 10,000 Feet.
- ❖ It connects Manali to the Lahaul - Spiti Valley.
- ❖ It is 9.02 km long, strategically significant, and runs under the 'Rohtang Pass'.

National Crime Records Bureau data



- ❖ As per National Crime Records Bureau (NCRB) data, the first pandemic year, 2020, witnessed the highest number of suicides among the unemployed in the recent past.
- ❖ The suicide toll has crossed 3,000-mark for the first time.
- ❖ 3548 people died by suicide.
- ❖ As per NCRB data, in 2020, the highest number of suicides among the unemployed was reported from Karnataka.
- ❖ It is followed by Maharashtra, Tamil Nadu (336), Assam, and Uttar Pradesh.
- ❖ While in suicides due to indebtedness or bankruptcy, Maharashtra topped the list with 1341 deaths.
- ❖ It is followed by Karnataka, Telangana, Andhra Pradesh, and Tamil Nadu (524).
- ❖ Except for Tamil Nadu, other states usually account for most farmer suicides.

ECONOMY

2nd largest gold buyer - RBI

- ❖ The largest buyer, the Central Bank of Thailand, bought 90 metric tonnes of gold in 2021.
- ❖ RBI is the second-largest buyer of gold in 2021 (77.5 metric tonnes).

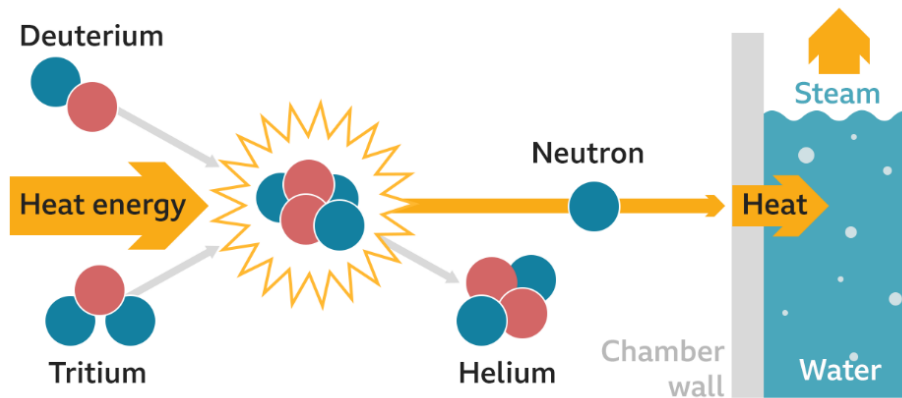
- ❖ This took the total gold reserve to 754.1 tonnes
- ❖ As per Goldhub, India's official gold reserves is the ninth-largest in the world.
- ❖ Goldhub is the official website of the World Gold Council.
- ❖ It maintains all the data regarding precious metals.

SCIENCE AND TECHNOLOGY

New Record in Nuclear Fusion energy

How nuclear fusion works

1	2	3	4
Hydrogen atoms are heated	Fusion reaction	Helium, neutron and energy released	Neutron energy heats water



- ❖ The UK-based JET laboratory recently produced 59 megajoules of energy from a fusion reaction.
- ❖ The reaction was conducted for five seconds.
- ❖ With this, the company has smashed its own world record.
- ❖ With this, the company has become capable of creating a mini star and holding it there for five seconds.

STATES

Majhi Vasundhara' Campaign

- ❖ The United Nation Environment Programme has signed an MoU with the Maharashtra government to support its 'Majhi Vasundhara' campaign.

- ❖ It is an initiative towards sustainable use of energy and environmental development.
- ❖ The literal meaning of 'Majhi Vasundhara' is 'My Earth'.
- ❖ It is an initiative of the Environment and Climate Change Department, Government of Maharashtra.



PERSONALITIES, AWARDS, AND EVENTS

18th Late Madhavrao Limaye Award



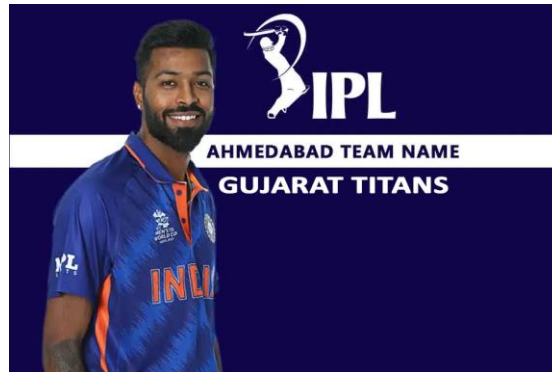
- ❖ Union Minister of Road Transport and Highways, Nitin Gadkari will be facilitated for the first time with the 18th late Madhavrao Limaye award in the category of Karyakram Khaasdar (Efficient Member of Parliament) for the year 2020-21.
- ❖ This award will be facilitated by Nashik Public Library, Sarvajanik Vachanalay.

- ❖ Earlier, the award was given to Karyaksham Aamdaar, an efficient Member of the Legislative Assembly (MLA) from Maharashtra.

SPORTS

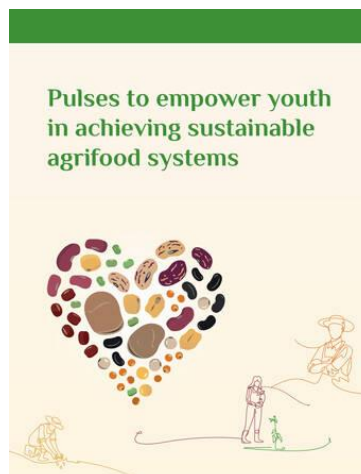
Gujarat Titans

- ❖ Gujarat Titans is the official name of the new Ahmedabad franchise owned by CVC Capital.
- ❖ Hardik Pandya is all set to lead the franchise in the Indian Premier League (IPL) 2022.
- ❖ The naming of the Ahmedabad franchise comes days after Lucknow, owned by RPSG Group, announced its official name as Lucknow Super Giants.
- ❖ The Lucknow team will be led by KL Rahul.



IMPORTANT DAYS

World Pulses Day - February 10



- ❖ The day has been established by the Food and Agriculture Organization of the United Nations to recognize the importance of pulses (dry beans, lentils, dry peas, chickpeas, lupins) as a global food.
- ❖ This year World Pulses Day's theme is "Pulses to empower youth in achieving sustainable agri-food systems".

National Deworming Day - February 10



- ❖ The day was started as an initiative under the Union Ministry of Health and Family Welfare.
- ❖ It aims to make every child between the ages of one and 19 years across the country free from intestinal worms.
- ❖ These intestinal worms are also referred to as Soil-Transmitted Helminths (STH).
- ❖ According to the World Health Organisation (WHO), there are about 241 million children in India who are at risk of intestinal worms.

International Day of Women and Girls in Science - February 11



- ❖ It is the 7th International Day of Women and Girls in Science Assembly, taking place this year.

- ❖ The Day is implemented by UNESCO and UN-Women in collaboration with institutions and civil society partners that aim to promote women and girls in science.
- ❖ The 2022 theme of the Day is “Equity, Diversity, and Inclusion: Water Unites Us”.

World Unani Day - February 11



- ❖ The day is observed every year to mark the birth anniversary of “Hakim Ajmal Khan”.
- ❖ He is an eminent Indian Unani physician.
- ❖ The first Unani Day was celebrated in 2017 at the Central Research Institute of Unani Medicine (CRIUM), Hyderabad.
- ❖ The main objective is to spread the awareness in masses and action about healthcare delivery through the Unani system of medicine worldwide through its preventive and curative philosophy.

