

Bihar Special

Bihar's Carbon Emissions

Why in the news?

In Bihar, carbon emissions equivalent to 19.7 crore tons of carbon dioxide are taking place, which is approximately three percent of India's total emissions.

- ❖ In Bihar, the temperature has increased by 0.81 degrees Celsius in the last 50 years.
 - As per estimation, the temperature will increase by 0.8 to 1.35 degrees Celsius by 2030, 1.4 to 1.71 degrees Celsius by 2050 and 1.81 to 2.5 degrees Celsius by 2070.

Net Zero Emission Target of Bihar:

- ❖ Bihar has resolved to make the state carbon-neutral by 2070.

International Relations

MQ-9B drones

Why in the news?

India has signed a defence deal worth \$3.5 billion with the US to acquire 31 MQ-9B drones.

- ❖ **Objective:** To enhance the country's operational readiness and military strength
 - Fifteen drones are meant for the Indian Navy, and eight for the Army and the Air Force.

About the drones:

- ❖ It is a next-generation remotely piloted aircraft capable of conducting a range of intelligence, surveillance, and reconnaissance missions.
- ❖ With an operational altitude above 40 thousand feet and a speed of approximately 400 kilometers per hour, the drone can gather intelligence and carry out strike missions, significantly enhancing India's firepower.



Economy

Artificial Intelligence Centres of Excellence

Why in the news?

Artificial Intelligence Centres of Excellence (AI-COE) focused on Health, Agriculture and Sustainable cities has been announced by Union Education Minister Dharmendra Pradhan.

- ❖ These centres will be established in **AIIMS Delhi, IIT Ropar and IIT Kanpur**.
 - The centre at AIIMS Delhi, along with IIT Delhi, will work in the field of health.
 - The centre at IIT Ropar will work in agriculture and the one at IIT Kanpur will work for a sustainable city.

- ❖ **Objective:** To promote research, innovation, and economy, and ensure public welfare.

About the AI-COE



- ❖ They were announced in the **Budget for 2023-24**, as part of the vision to Make AI in India and Make AI work for India.
- ❖ These three CoEs for Artificial Intelligence will be led by top educational institutions, in consortium with industry partners and startups.
- ❖ They will conduct interdisciplinary research, develop cutting-edge applications, and create scalable solutions in these three areas.

Miscellaneous

India's 2nd 3D printed Post office

Why in the news?

India's second post office using 3D printing technology will be established in Pune, Maharashtra.

- ❖ The first post office in the country to be built using 3D printing technology was inaugurated in Bengaluru last year.

How does the 3D-printing technology of buildings work?

- ❖ 3D-printing technology is said to be a cost-effective and environmentally friendly method of construction.
 - 3D shapes are created using computer programmes which are sent as input to the printer.
 - Cement is commonly used in this type of printing but use of other materials such as polymers have also been explored.
 - The nozzle of the printer then deposits the cement according to the design specifications and desired shape.

Awards and Honors

IAF World Space Award

Why in the news?

Dr. S. Somanath has been awarded the prestigious International Astronautical Federation (IAF) World Space Award.

- ❖ At present, he is the secretary of the Department of Space and Chairman of the Indian Space Research Organisation (ISRO).
- ❖ He was awarded for the remarkable success of the Chandrayaan-3 mission.
 - His leadership was instrumental in guiding the mission to success, overcoming the challenges faced by its predecessor, Chandrayaan-2.
 - Chandrayaan-3's historic landing near the Moon's South Pole on August 23, 2023, marked India as the first nation to achieve this feat, placing it in an elite group of countries capable of lunar landings.

About the Award:

- ❖ It recognises outstanding contributions to space science, technology, and exploration.
- ❖ The award ceremony was held in Milan, Italy,



Sports

ISSF World Cup 2024

Why in the news?

Indian shooter Sonam Uttam Maskar has won the silver medal in the Women's 10m Air Rifle event at the ISSF World Cup 2024.



- ❖ China's Yuting Huang won the gold medal in this event while French shooter Oceanne Muller won the bronze medal.
- ❖ Venue of the tournament: New Delhi.

Persons In News

TV Narendran

Why in the news?

TV Narendran has been elected as the chairperson of the World Steel Association for the year 2024-25.

- ❖ At present, he is the chief executive officer of Tata Steel.
- ❖ He became the 2nd Indian to head the World Steel Association.

- Sajjan Jindal, chairperson of JSW Group was the first Indian elected to head the World Steel Association in 2021.

World Steel Association:



- ❖ It is a non-profit organization with headquarters in Brussels, Belgium.
 - A second office in Beijing, China, opened in April 2006.
- ❖ It was founded as the International Iron and Steel Institute on 10 July 1967.
 - It changed its name to the World Steel Association on 6 October 2008.
- ❖ The member countries account for approximately 85% of the world's steel production.

Important Days/ Dates

World Food Day

Why in the news?

World Food Day is celebrated annually on October 16.

❖ Objective of this day:

- To eradicate hunger, ensure food security, boost agricultural productivity and support a sustainable food system.

❖ History of this day:

- World Food Day came into existence in 1979 when the 20th FAO Conference declared October 16 as World Food Day.
- The first celebration occurred in 1981 with the theme "Food Comes First," and the United Nations General Assembly endorsed it in 1984.

❖ Theme 2024: "Right to Food for a Better Life and a Better Future."

❖ Indian Thali in Global Spotlight:

- It has gained global recognition recently with the WWF Living Planet Report acknowledging it for its remarkable contribution to nutrition and sustainability.
- The report highlights that if the global population adopted India's consumption patterns, we would only require 0.84 of an Earth by 2050 to sustain global food production.

India's Commitment to Food Security

- ❖ **National Food Security Act (NFSA):** This act ensures subsidized food grains for up to 75% of the rural population and 50% of the urban population, benefiting approximately 81 crore individuals, including 16 crore women.
- ❖ **Pradhan Mantri Garib Kalyan Anna Yojana (PMGKAY):** Launched to assist the poor during the COVID-19 pandemic, PMGKAY will continue for an additional five years from 1 January 2024, providing free food grains to around 81.35 crore beneficiaries.
- ❖ **PM POSHAN Scheme:** This scheme, designed to enhance the nutritional status of children in government schools, has a total budget of ₹12,467.39 crores for the fiscal year 2024-25, targeting hunger effectively.
- ❖ **Antyodaya Anna Yojana (AAY):** Focused on the most vulnerable, AAY supports over 8.92 crore individuals, ensuring food security and emphasizing women's empowerment among its beneficiaries.

- ❖ **Rice Fortification:** Between 2019-20 and March 31, 2024, approximately 406 lakh metric tonnes of fortified rice were distributed through the PDS, enhancing the nutritional intake of millions across the country.



News in Short

- ❖ Aishath Azeema has been appointed Maldives' new envoy to India.
- ❖ Parmesh Sivamani has taken over as the 26th Director General of the Indian Coast Guard (ICG).



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