

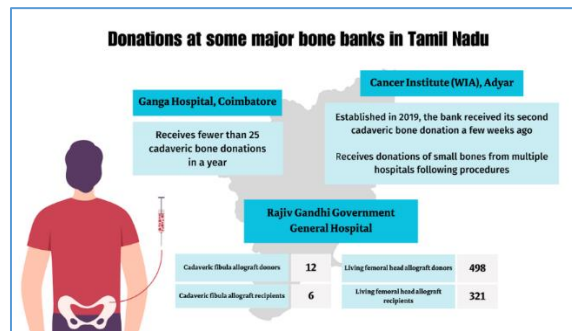
January - 26

TNPSC BITS

- ❖ FIFA President, Gianni Infantino, has been honoured with the prestigious International Sports Personality of the Year award.
- ❖ SpaceX launched private Axiom Mission 3 astronaut mission (Ax3) to the International Space Station with Turkey's first space traveller.

TAMIL NADU

Donations of cadaveric bones in Tamilnadu



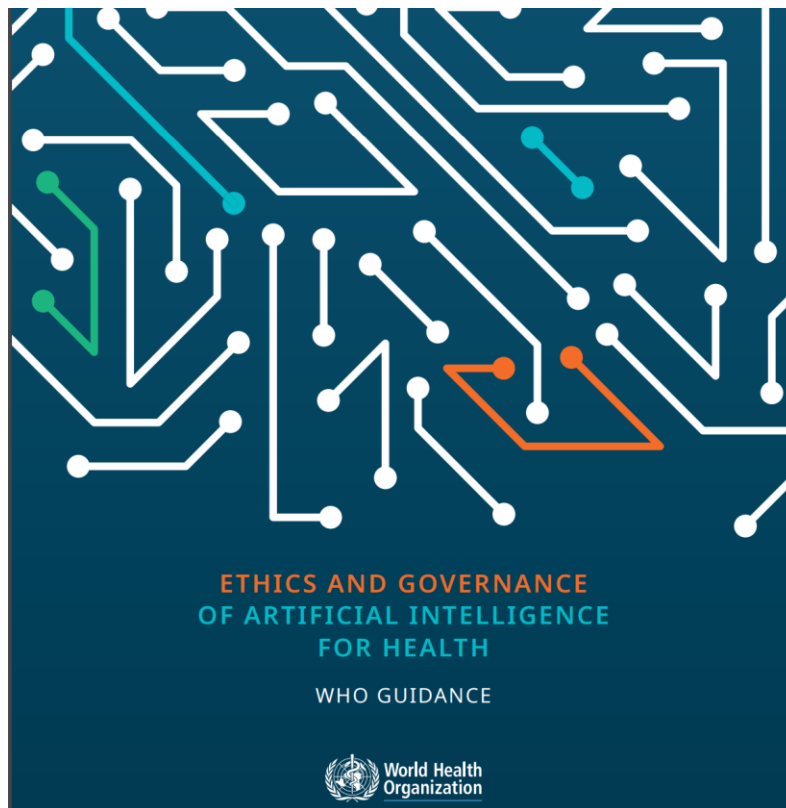
- ❖ Cadaveric bone donations are still slow-paced in Tamil Nadu.
- ❖ While people's overall understanding of cadaveric organ donations has largely improved, this is not the case with bone donation.
- ❖ There were 248 bone donations from 2018 to 2023.
- ❖ Major bone banks have only received a small number of donations over this period.
- ❖ The bone bank at Cancer Institute (WIA), Adyar was set up in 2019.
- ❖ Every year, Coimbatore Ganga Hospital's bone bank receives fewer than 25 cadaveric bone donations.

INTERNATIONAL

Guidance on Healthcare AI Ethics

- ❖ The WHO issues guidelines on ethics and governance of AI for health, specifically multimodal AI like ChatGPT.

- ❖ These guidelines address the ethical quandaries surrounding the rapid advancement of generative AI technology, particularly in its applications within the healthcare domain.
- ❖ The new WHO guidance outlines five broad applications of large multimodal models (LMMs) for health:
 - Diagnosis and clinical care, such as responding to patients' written queries
 - Patient-guided use, such as for investigating symptoms and treatment
 - Clerical and administrative tasks, such as documenting and summarising patient visits within electronic health records
 - Medical and nursing education, including providing trainees with simulated patient encounters
 - Scientific research and drug development, including to identify new compounds.



SCIENCE AND TECHNOLOGY

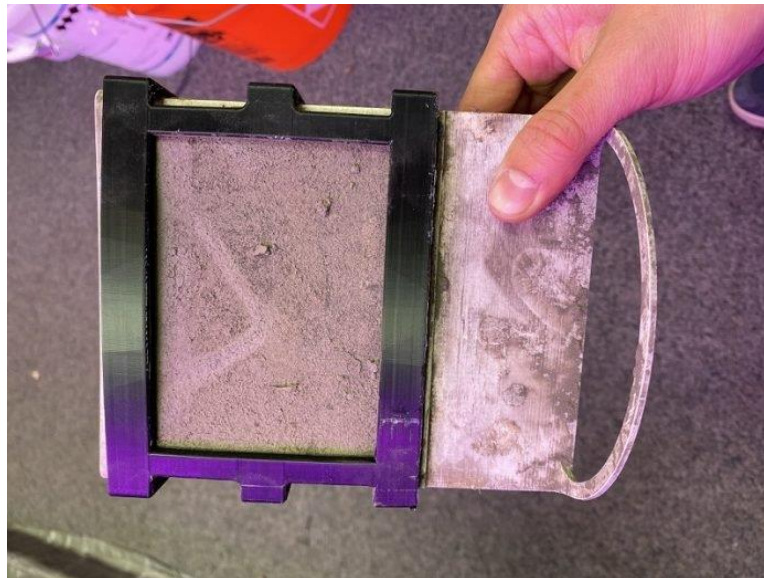
Havisure Vaccine

- ❖ Indian Immunologicals Ltd (IIL), launched India's 'first' indigenously developed Hepatitis A vaccine, Havisure.

- ❖ Hepatitis A is a highly contagious liver viral infection.
- ❖ It poses a significant public health challenge primarily spreads through the fecal-oral route.
- ❖ It is transmitted through the ingestion of contaminated food or water.
- ❖ The vaccine is effective in preventing the disease and is recommended for children in routine immunisation.
- ❖ IIL is a wholly-owned subsidiary of National Dairy Development Board (NDDB).



Soil-Powered Fuel Cell



- ❖ Scientists of Northwestern University in USA have developed a new fuel cell they claim can harvest energy from microbes living in the soil.

- ❖ The fuel is around the size of a book and can potentially be used to fuel underground sensors used in green infrastructure and precision agriculture.
- ❖ It could become a sustainable, renewable alternative to batteries that use toxic and flammable chemicals.
- ❖ Soil-based microbial fuel cells (MFCs) were first created in 1911 and they operate not all that differently from a battery.
- ❖ They have an anode, a cathode and electrolyte.
- ❖ But instead of using chemicals to generate electricity, they harvest electricity from bacteria that naturally give out electrons to nearby conductors.
- ❖ These electrons from anode to cathode to create an electric circuit.

STATES

C4IR – Hyderabad

- ❖ The World Economic Forum has agreed to set up its Centre for Fourth Industrial Revolution (C4IR) in the Telangana State capital.
- ❖ The C4IR will be launched during the Bio Asia- 2025 scheduled in the city in February next year.
- ❖ Setting up of the centre will go a long way in designing the State Health Tech Landscape aimed at improving healthcare in the State.



Kolam tribes

- ❖ The Central government extended basic facilities to the endangered Kolam tribe under the Jan Jati Adivasi Nyay Maha Abhiyan.
- ❖ They are listed as Particularly Vulnerable Tribal Group (PVTG) in the state of Maharashtra and Andhra Pradesh.

- ❖ It will focus on the health and education of these primitive tribal groups living in villages by strengthening local primary healthcare centres (PHCs) and imparting special training to teachers.
- ❖ Under the scheme, road connectivity will be improved to these villages from mandal headquarters.
- ❖ Also focusing improving internal roads, providing potable drinking water, electricity or solar energy, and LPG gas stoves and cylinders.
- ❖ Kolam tribes, also known as Kolamboli, Kulme and Kolmi, occupy a major portion of Madhya Pradesh.
- ❖ These tribal groups are listed as scheduled tribes and also reside in some parts of Maharashtra and Andhra Pradesh.

Cabinet Decisions

29th Nov 2023



Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (JANMAN)

Elevating PVTG* socio-economically
in 18 States & Andaman-Nicobar

Benefits to more than 28L+ people
in 22.5K+ habitations
across 220 districts

11 critical interventions
for essential amenities -
pucca house,
road connectivity,
piped water supply etc



*Particularly Vulnerable Tribal Groups

Financial Outlay: ₹24,104 crore

Ayodhya's Ties to Korean Queen

- ❖ Queen Heo, also known as Suriratna, was the cherished princess of Ayodhya.
- ❖ Historical records suggest that she journeyed to Korea and married King Suro.
- ❖ The event is believed to have occurred in 48 AD and is acknowledged in South Korea and India.

- ❖ King Suro, who established the Karak dynasty in 42 AD, was Queen Heo's spouse.
- ❖ In 2001, the Uttar Pradesh government, in partnership with Gimhae City in South Korea, established the Queen Huh Memorial Park in Ayodhya.



PERSONALITIES, AWARDS, AND EVENTS

Bharat Ratna - Karpoori Thakur

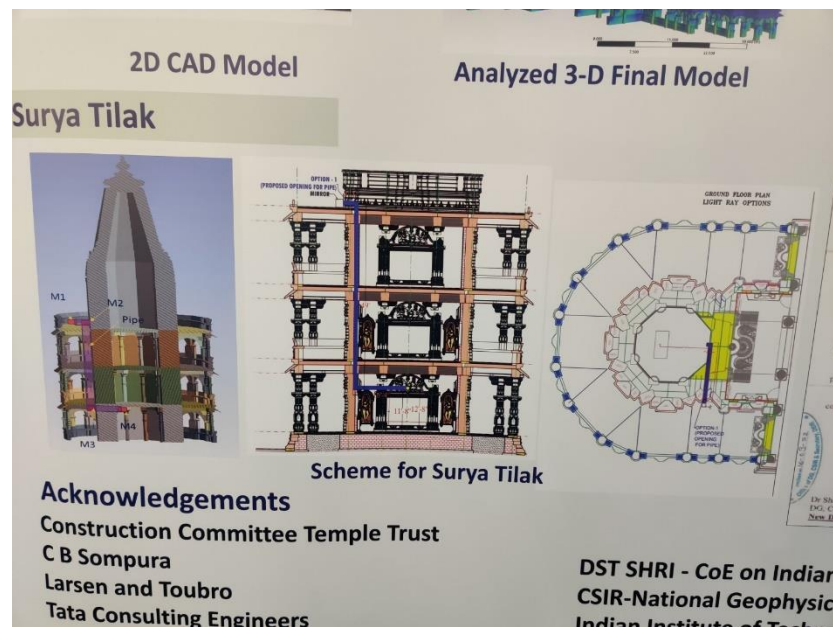
- ❖ Karpoori Thakur, the former Chief Minister of Bihar, was chosen for the country's highest civilian award Bharat Ratna (posthumously).
- ❖ He participated in the freedom struggle and was also jailed for it.
- ❖ In independent India, he was voted in as an MLA in 1952.
- ❖ When he first became an MLA in 1952, he was selected for an official delegation to Austria.
- ❖ He remained an MLA till his death in 1988, except when he became an MP in 1977 and when he lost an Assembly election in 1984.
- ❖ Thakur was education minister of Bihar from March 5 1967 to January 28, 1968.
- ❖ He became the state's chief minister in December 1970 with the Samyukta Socialist Party, but his government fell after six months.
- ❖ He came to the post again in June 1977, but could not finish a full term, losing power in about two years.
- ❖ In June 1970, the Bihar government appointed the Mungeri Lal Commission.
- ❖ Its report of February 1976 named 128 "backward" communities, 94 of which were identified as "most backward".

- ❖ Thakur government implemented the recommendations of the Commission.
- ❖ The 'Karpoori Thakur Formula' provided 26% reservation.
- ❖ Of which OBCs got a 12% share, the economically backward classes among the OBCs got 8%, women got 3%, and the poor from the "upper castes" got 3%.
- ❖ Due to this his government fell, and he witnessed major opposition from upper castes.



MISCELLANEOUS

Surya Tilak



- ❖ Scientists from top government institution (Indian Institute of Astrophysics in Bengaluru) have designed a special mirror- and lens-based apparatus.



- ❖ It will ensure that every Ram Navami Day at noon, there is a ray of sunlight that falls directly on the forehead of the 'achal Ram Lalla' idol at Ayodhya.
- ❖ It is officially called the 'Surya Tilak mechanism'.
- ❖ The Surya Tilak mechanism would be fully operational when the full temple is constructed.

