

Prelim Bits 01-09-2023 | UPSC Daily Current Affairs

Project TAMARA

Technology Development Board (TDB) of Ministry of Science & Technology supports the Waterbody Management Project "TAMARA" with 89 Lakhs out of 150 lakhs.

- **Project Title** - Development and Commercialization of Intelligent Water Body Management System (IWMS)-TAMARA.
- It is a smart aeration system enhanced with sensors and IoT-based technology to manage water quality.
- This modern approach not only improves existing methods of treating water and wastewater but also ensures that water bodies and aquaculture ponds stay clean and healthy for everyone.
- **Agency** - M/s Bariflo Labs Private Limited, Odisha.
- This project is in line with other successful initiatives of the Govt. like Namami Gange and Jal Shakti Abhiyan that focus on revitalizing and protecting India's waterbodies.

AMRUT 2.0 mission

- It is a step towards AatmaNirbhar Bharat with aim of making the cities 'water secure' and providing functional water tap connections to all households.
- This Mission will be run as people's program i.e. Jan Aandolan.
- Mission also targets to provide 100% sewage/ septage management in 500 AMRUT cities.
- The Mission will co-opt women and youth for concurrent feedbacks about its progress to ensure community participation
- Mission will be paperless and monitored on a robust technology-based monitoring & evaluation platform.

Reference

1. [PIB | Project "TAMARA"](#)
2. [AMRUT 0](#)

Radio Anatomy of Moon Bound Hypersensitive ionosphere and Atmosphere - Langmuir Probe (RAMBHA-LP)

RAMBHA-LP payload on board Chandrayaan-3's lander Vikram has completed the first in-situ measurements of surface-bound lunar plasma environment recently.

- **About** - The RAMBHA Langmuir probe is an instrument that measures properties of plasmas, a state of matter.
- **Developed by** - Space Physics Laboratory (SPL) at ISRO's Vikram Sarabhai Space

Centre (VSSC).

- **Payload** - It is one of the 3 Indian payloads on the Chandrayaan-3 lander (Vikram).
- **Features** - It is a 5 cm metallic spherical probe mounted on a 1-meter boom attached to the Chandrayaan-3 Lander's upper deck.
- It is named after American chemist and physicist ***Irving Langmuir***, who was awarded the Nobel Prize in Chemistry.

Plasma is often called “the fourth state of matter,” along with solid, liquid and gas.

- **Findings of Langmuir Probe** - The initial assessment indicates that the plasma encompassing the lunar surface is relatively sparse (thin).
- The thinness of lunar plasma is important because *it affects the way radio waves propagate through space.*

Radio waves are affected by the presence of plasma—the denser the plasma, the more the radio waves are scattered.

- The sparseness of lunar plasma means that radio waves can propagate through space with less attenuation, which is important for communication between lunar missions.

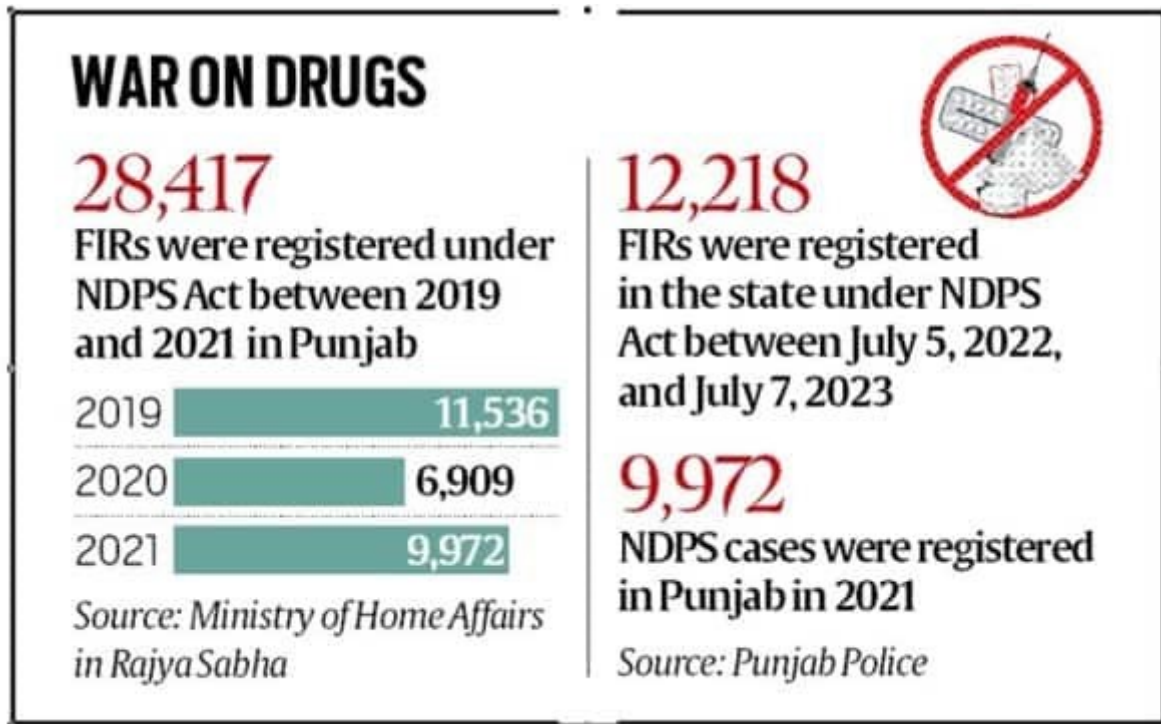
References

1. [The Hindu | RAMBHA completes first in-situ measurements](#)
2. [ISRO | RAMBHA-LP](#)
3. [The Times of India | Vikram's RAMBHA](#)

Nasha Roko Committee

A vigilant wave is sweeping through villages in Punjab to tackle the decade-old drug problem.

- **About** - It is an informal committee to stop the use and sale of drugs.
- **Against** - It act against the drugs Chitta and the prescription-only pharma drug, pregabalin.
- **Campaign** - '*Nasha roko, rozgaar do*' (stop addiction, provide employment) campaign was started to end the drugs.



Only 250 gm or above of heroin is considered a commercial quantity under the Narcotic Drugs and Psychotropic Substances Act.

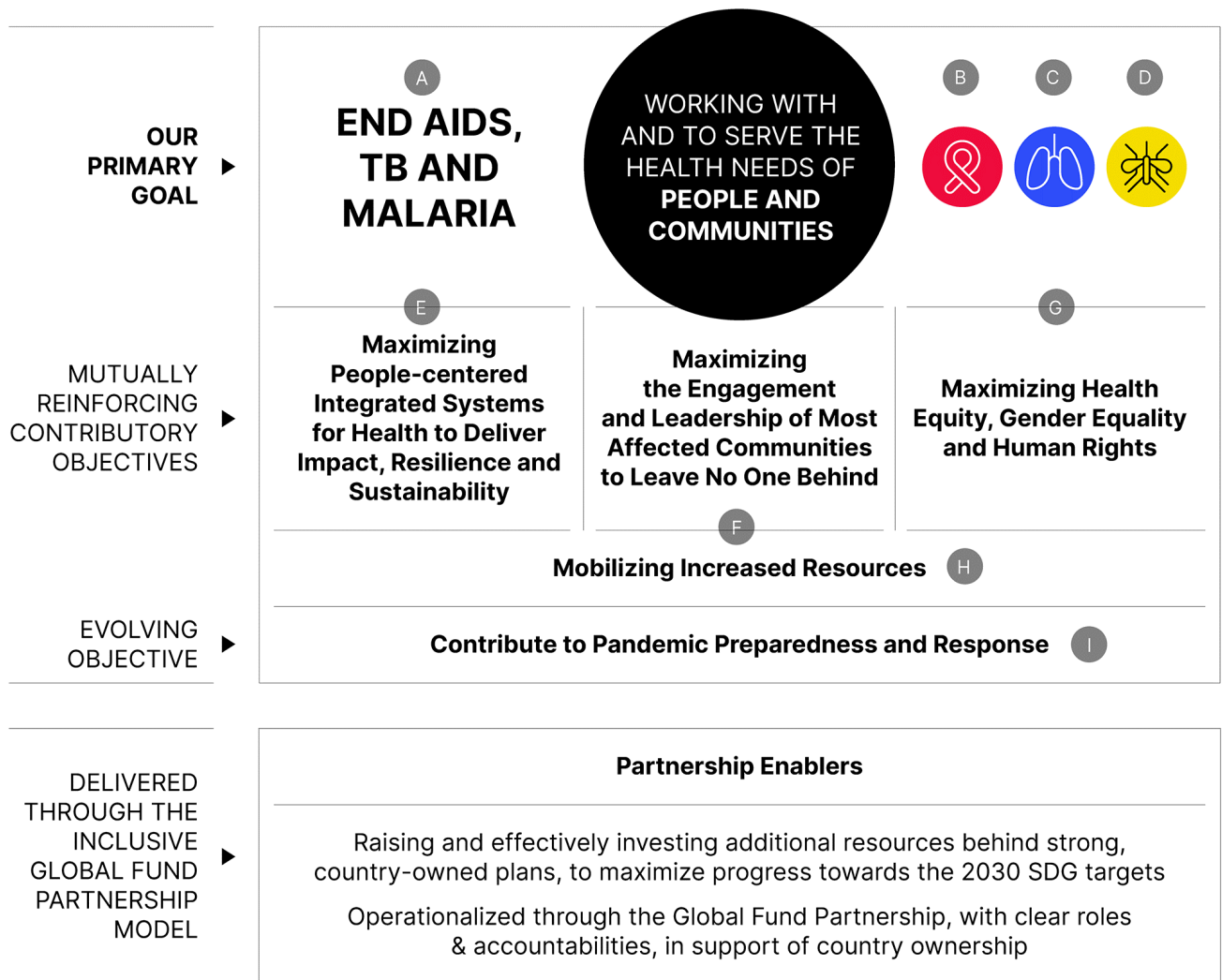
References

1. [The Hindu | Nasha Roko Committees](#)
2. [The Indian Express | Local committees declare war on drugs](#)

Global Fund

The Global Fund recently announced a deal with generic pharmaceutical manufacturers to significantly slash the price of a cutting-edge HIV drug.

- **About** - It is a worldwide movement to defeat [HIV](#), [TB](#) and Malaria and ensure a healthier, safer, more equitable future for all.
- **Partners**- Governments, civil society, technical agencies, the private sector and people affected by the diseases.
- **Year** - It was set up in 2002.
- **Funding** - The Fund pools the world's resources to invest strategically in programs to end AIDS, TB and malaria as public health threats.
- The financing is primarily from the public sector, with 92% of total funding coming from donor governments.
- **Strategy** - To accelerate impact towards the 2030 horizon as set out in Sustainable Development Goal 3.



- **Recent Initiative** - It envisages to provide the advanced pill known as TLD for under **\$45 per person per year**.
- **TLD** - The three-in-one pill bands together the drugs *Tenofovir disoproxil fumarate*, *Lamivudine* and *Dolutegravir*.
- It is recommended by the World Health Organization for first-line treatment of HIV.
- This improved pricing is a 25% reduction, will allow governments in resource-limited settings to expand access to critical HIV services.

References

1. [The Hindu | Global Fund secures deal to slash HIV treatment price](#)
2. [The Global Fund | About](#)

Cauvery Water Management Authority

- **Origin** - In exercise of the powers conferred by section 6A of the Inter-State River Water Disputes Act, 1956, Cauvery Water Management Scheme is introduced on 1st June, 2018.
- The 'Cauvery Water Management Authority' (CWMA) is constituted under this scheme.
- **Ministry** - Ministry of Jalshakti.
- **Composition**
 - Chairman (5 years or till 65 years of age whichever is earlier).

- 2 whole time members (3 years extendable upto 5 years)
- 2 part time members from centre's side,
- 4 part time members from party states.
- **Functions** - The Authority shall exercise such power and shall discharge such duty as modified by the Hon'ble Supreme Court vide Order in relation to storage, appointment, regulation and control of [Cauvery river](#).
- It also envisages the planning, construction and maintenance of the projects will be carried out by each State or Union territory administration through its own agencies.
- The authority has also been tasked to advise the states to take suitable measures to improve water use efficiency, by way of
 - Promoting micro-irrigation (drip and sprinkler),
 - Change in cropping pattern,
 - Improved agronomic practices,
 - System deficiency correction and
 - Command area development.
- It has to also prepare an annual report covering the activities of the authority for the preceding year.
- **Meetings of the Committee** - The Committee shall meet once in ten days during the months of June and October.
- In case of any exigency, a minimum of 48 hours notice shall be given for holding a meeting.

Reference

[Ministry of Jalshakti | Cauvery Water Management Authorit](#)

