UPSC Daily Current Affairs| Prelimbits 14-07-2025

TALASH (Tribal Aptitude, Life Skills and Self-Esteem Hub)

Prelims: *Current events of national and international Importance*

Why in News?

- It is a ***national- program to support the all-round development*** of students in Eklavya Model Residential Schools (EMRSs).
- **Launched by -** The National Education Society for Tribal Students (NESTS), an autonomous organization under the Ministry of Tribal Affairs, in partnership with UNICEF.
- **Aim -** To improve both the education and personal growth of tribal students across India.
- The name TALASH, reflects a focused search for self-awareness, life skills, and career clarity among tribal youth.
- The first initiative of its kind in India is aimed specifically at tribal students.
- **Coverage -** It is expected to benefit the students enrolled in EMRSs across 28 States and 8 Union Territories.
- **Features** - TALASH is an innovative digital platform designed to equip EMRS students with essential tools for self-discovery and career planning.
- It promotes self-awareness, helps students make informed career choices, and builds essential life skills.
- By focusing on both academic and personal development, TALASH prepares students to face the challenges of a competitive world and aims to create a strong foundation for their future success.
- **The initiative offers - Psychometric Assessments** - Inspired by NCERT's ***'Tamanna' initiative,*** TALASH offers a common aptitude test to help understand each student's strengths and interests.
- Based on the test results, students receive Career Cards that suggest the best career options suited to their skills and abilities.
- **Career Counselling -** The platform guides students toward informed career decisions, helping them align their aspirations with their aptitudes.
- **Life Skills & Self-Esteem Modules** - TALASH has special sections that help students learn important life skills like solving problems, communication skills, and handling emotions. These build confidence and self- value of students.
- **E-Learning for Teachers -** A specialized portal equips educators with resources and training to effectively mentor and support students in their academic and personal journeys.

Reference

PIB | TALASH Initiative

First indigenous diving support vessel – 'NISTAR'

Prelims: *Current events of national and international Importance*

Why in News?

Recently, the Indian Navy decided to commission the first of the class Diving Support Vessel (DSV).

- It is the ***first indigenously designed and constructed*** Diving Support Vessel.
- **Designed and constructed** - By M/s Hindustan Shipyard Limited, Visakhapatnam.
- A total of *120 MSMEs* have participated in the construction of this ambitious, unique, and state-of-the-art vessel, achieving more than 80% indigenous content.
- **Naval command** - The ship will join the *Eastern Naval Command.*
- **Specifications**
  - **Length** -120 meters and
  - **Weight** - More than 10,000 tons.
- **Motto** - **'Surakshita Yatharthta Shauryam',** which means 'Deliverance with Precision and Bravery'.
- **Previous version** – '**ex-NISTAR',** a submarine rescue vessel which was acquired by the Indian Navy from the *erstwhile USSR* in 1969 and commissioned in 1971.
- **Features** - The ship is outfitted with an *Operation Theatre, Intensive Care Unit, Eight Bedded Hospital, and Hyperbaric Medical Facilities.*
- **Dynamic Positioning System** - It has the capacity to maintain its position with extreme accuracy, using *Dynamic Positioning System.*
- It has the Capacity to undertake stages through helicopter operations and a *15-ton subsea crane* makes the ship a very versatile platform.
- **The expansive diving complex** – It consists of both Air and Saturation Diving Systems, along with underwater Remotely Operated Vehicles (ROVs.
- It has inbuilt *Side Scan SONAR*, substantially enhances the operational envelope of the vessel
- **Mother of ships** – It is known as the 'Mother Ship' for the Deep Submergence Rescue Vehicle (DRV),
- **Endurance** - Over 60 days at sea.
- It will enhance India's operational preparedness in the underwater domain.
- It will also reinforce its strategic maritime posture across the Indian Ocean Region.

Reference

PIB| First indigenous diving support vessel – 'NISTAR'

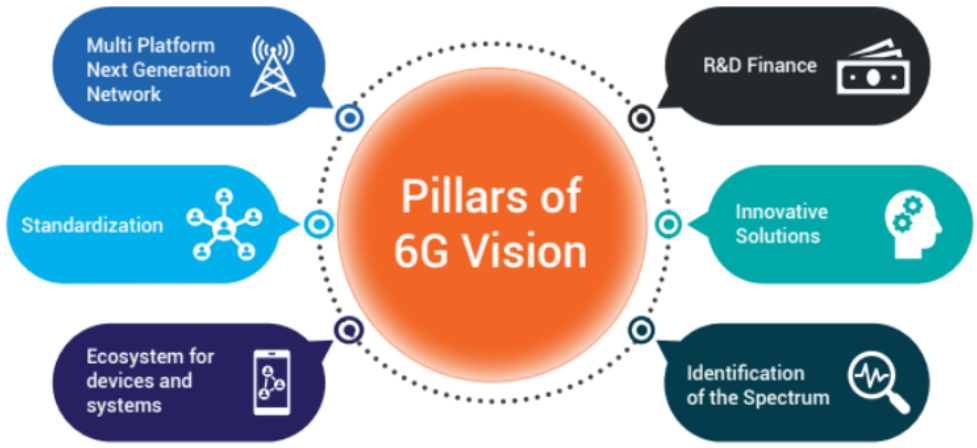
Bharat 6G alliance

Prelims: Science and technology| Current events of national and international importance

Why in news?

Recently, The Union Minister of Communications, reviewed the progress of Bharat 6G Alliance (B6GA) along with various stakeholders

- The B6GA is a ***collaborative platform*** established to drive India's leadership in 6G technology.
- **Stakeholders** - It is an alliance of public and private enterprises, academic institutions, research organizations, and standardization bodies.
- **Launched in** - July 2023.
- **Launched by**- Ministry of Communications.
- **Objectives -** To enable India to become a leading global supplier of IP, products, and solutions of *affordable 5G* and 6G and other future telecom solutions
- To deploy 6G technologies to act as a powerful force multiplier for India by 2030.
- To support and energise *Indian participation* in standard development organizations.
- To *build coalitions with similar 6G Global Alliances* and other global technology alliances and associations.
- To address India's priorities for contribution to 6G and other *future technology-related global standards*, products, operations, and services.
- To promote the ecosystem for research, design, prototyping, development.



Six task forces formed under the Technology Innovations Group

- To study and recommend national requirements and enable their inclusion in Indian and international standardization bodies.
- To develop recommendations for Bharat 6G Vision implementation readiness in India.
- **Operational phases**
  - **Phase 1 (2023-2025)** - Exploratory research, Proof-of-concept testing, and Risky and innovative pathways
  - **Phase 2 (2025-2030)** - Intellectual property (IP) creation and Deployment of testbeds.
- **Reports**
  - Bharat 6G Vision Document
  - Bharat 6G Mission Task Force Reports

    - Working Group Report
    - Whitepapers

- **Working groups**
    - Spectrum
    - Devices, Components, Sensors, and Manufacturing ecosystem
    - Technology
    - Applications
    - Outreach
    - Green and Sustainability
    - 6G Use cases and Revenue Stream
- **Advantages** - Development of Indigenous RAN technology, Intelligent and inclusive networks for rural connectivity, Cross-sectoral 6G applications in domains like agriculture, healthcare, smart and sustainable deployment.
- The Alliance has now expanded to a robust network of *80 member organizations, including over 30 startups,* reflecting the growing national momentum for indigenous 6G innovation.

Reference

PIB| Bharat 6G alliance

e-Truck Incentive Scheme

Prelims: Current Events of National and International Importance

Why in the news?

Recently Ministry of Heavy Industries rolled out the first-ever e-Truck incentive scheme under the green mobility vision.

- **Launched by** - Ministry of Heavy Industries (MHI).
- **Vision** - Sustainable freight mobility, a cleaner future, and the realization of Viksit Bharat by 2047, in alignment with our net-zero emissions goal by 2070
- **Objective** - To accelerate the country's transition to clean, efficient, and sustainable freight mobility.
- **Under** - PM E-DRIVE initiative.
- **Features** - Under the scheme, demand incentives will be extended to N2 and N3 category electric trucks as defined under the Central Motor Vehicle Rules (CMVR).
    - **N2 category** - trucks with a Gross Vehicle Weight (GVW) above 3.5 tonnes and up to 12 tonnes.
    - **The N3 category** - trucks with GVW exceeding 12 tonnes and up to 55 tonnes.
    - In the case of articulated vehicles, incentives will apply only to the puller tractor of the N3 category.
- **Manufacturer-backed warranties** – to ensure reliability and performance, the scheme mandates
    - battery must be having warranty for five years or 5 lakh kilometres, whichever is

earlier.
    - The vehicle and motor must have a warranty of five years or 2.5 lakh kilometers, whichever is earlier.
- **Incentives** - Incentive amount will depend on the GVW of the electric truck, maximum incentive set at Rs 9.6 lakh per vehicle.
    - Incentives offered as reduction in the purchase price and reimbursed to OEMs via the PM E-DRIVE portal on a first-come, first-served basis.
    - An original equipment manufacturer (OEM) is a company whose goods are used as components in the products of another company
- **Benefits** – Other key sectors include the cement industry, ports, steel, and the logistics sector get benefitted.
- **Participation** – Sign of Public Sector Enterprise (PSE) leadership, the Steel Authority of India Limited (SAIL) has committed to procure 150 e-trucks over the next two years for deployment across multiple locations.
- **Significance** - India's first dedicated support for electric trucks, though trucks contribute 3% vehicle population, contributing 42% of greenhouse gas emissions.

Reference

PIB |e-Truck Incentive Scheme

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