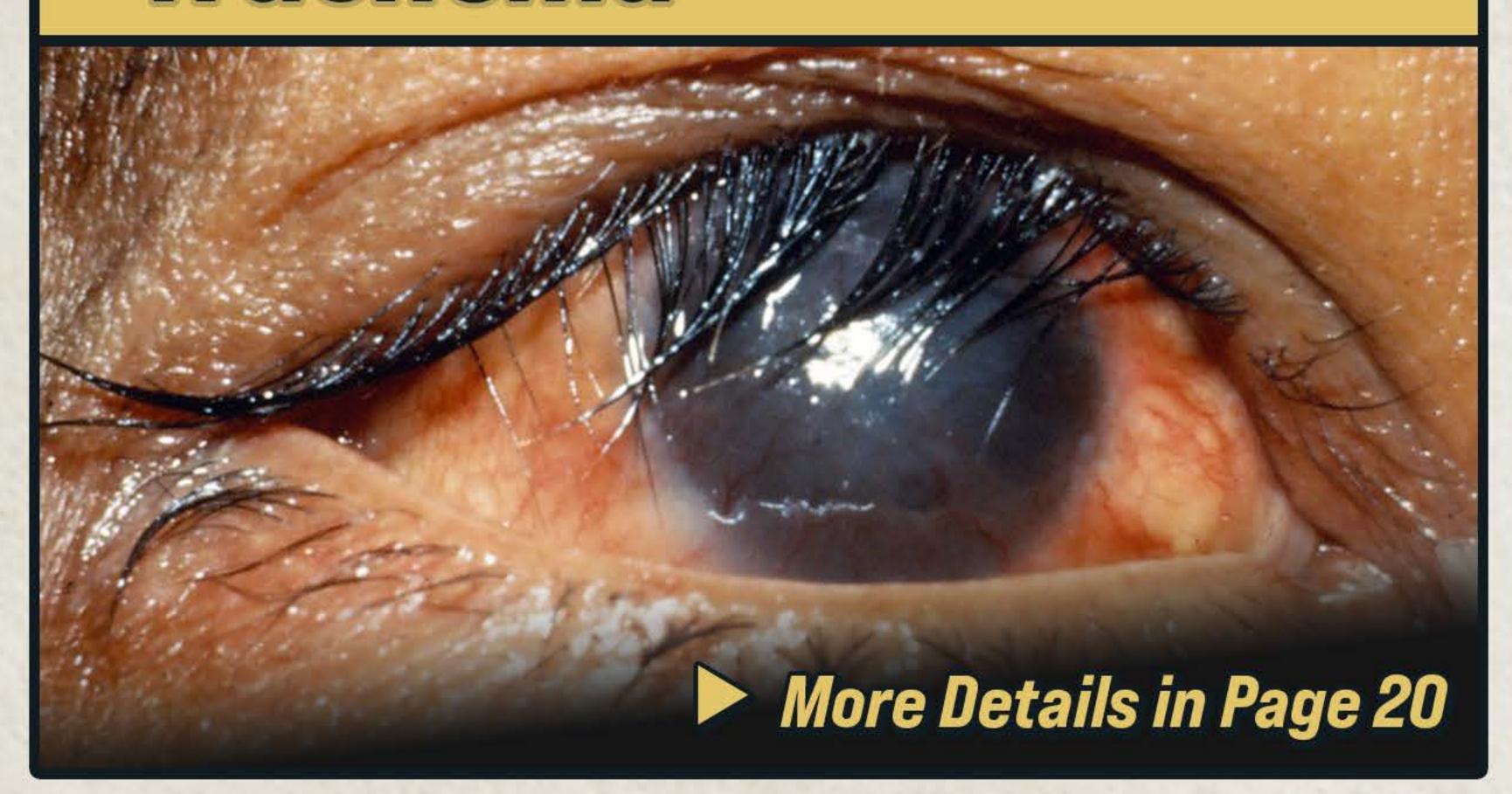
# WHEET STATES

October 06-12, 2024

# Lunar Polar Exploration Mission (LUPEX)



# India Eliminates Trachoma



# HIGHLIGHTS

- MACE
  Observatory
- India-Maldives
   Bilateral Talks

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# Draft National Sports Policy (NSP) 2024

# Why in News?

- The Ministry of Youth Affairs and Sports released the Draft National Sports Policy (NSP) 2024.
- Builds upon earlier initiatives like NSP 2001, Khelo India, and Target Olympic Podium Scheme (TOPS).

#### Need for NSP 2024

- Existing NSP was framed over two decades ago.
- A new comprehensive policy is required to address modern challenges and developments in the sports ecosystem.

#### Vision

- "Sports for Nation Building Harnessing the Power of Sports for Nation's Holistic Development"
- Aligned with the vision of 'Viksit Bharat' for India's development.

# Key Features

#### **5** Pillars of NSP 2024:

**Excellence on the Global Stage:** Focus on talent identification, infrastructure development, and global competitiveness.

**Sports for Economic Development:** Boost industries like tourism and manufacturing through sports.

**Sports for Social Development:** Promote indigenous games, inclusivity, and health and education through sports.

**Sports - A People's Movement:** Engage communities through a National Fitness Ranking & Indexing System and revamp physical education frameworks.

**Integration with NEP 2020:** Align sports development with educational frameworks under the National Education Policy (NEP) 2020.

# Significance

A comprehensive roadmap for the holistic development of sports, fostering inclusivity and international competitiveness.

1

- NSP 2024 envisions making sports a key tool for nation-building.
- Leverage India's vast youth population (15-29 age group) as a catalyst for development through sports.



# India's First Mission to Venus: Venus Orbiter Mission (VOM)

### Why in News?

- ISRO has announced the launch target for the Venus Orbiter Mission (VOM), marking India's first mission to Venus.
- Union Cabinet approval for the project was recently granted.

#### Launch Details

- Target Launch Date: March 2028
- Journey Duration: 112 days to reach Venus
- Launch Vehicle: LVM-3 (Launch Vehicle Mark-3)

# Mission Objectives

- Atmosphere Study: Examine dust particles in the Venusian atmosphere and analyze airglow emissions.
- Surface Mapping: Map Venus's topography and study sub-surface features.
- Solar X-ray Spectrum: Measure and study the solar X-ray spectrum at Venus.
- Technology Demonstration: Test aerobraking techniques and thermal management systems to withstand harsh Venusian conditions.

# Scientific Payloads & Experiments

- Venus Thermal Camera: For atmospheric and cloud dynamics.
- NAVA (Narrow band oxygen Airglow detection): To detect airglow in the atmosphere.
- > VARTISS: Study ionospheric structure, detect active volcanic sites, and explore buried geological features.
- VODEX: Analyze Interplanetary Dust Particles (IDPs) at Venus.
- Other Payloads:

VISWAS (Venus Ionospheric and Solar Wind Particle AnalySer)

RAVI (Radio Anatomy of Venus Ionosphere)

VIRAL: Developed by Russia, studies atmospheric gases.

Total Payloads: 19 (16 Indian, 2 collaborative, 1 international).

# Comparison with Past and Upcoming Venus Missions

Past Missions:

Pioneer Venus (1978) - NASA

Vega (1985) - USSR

Venus Express (2005) - ESA

Akatsuki (2015) - Japan

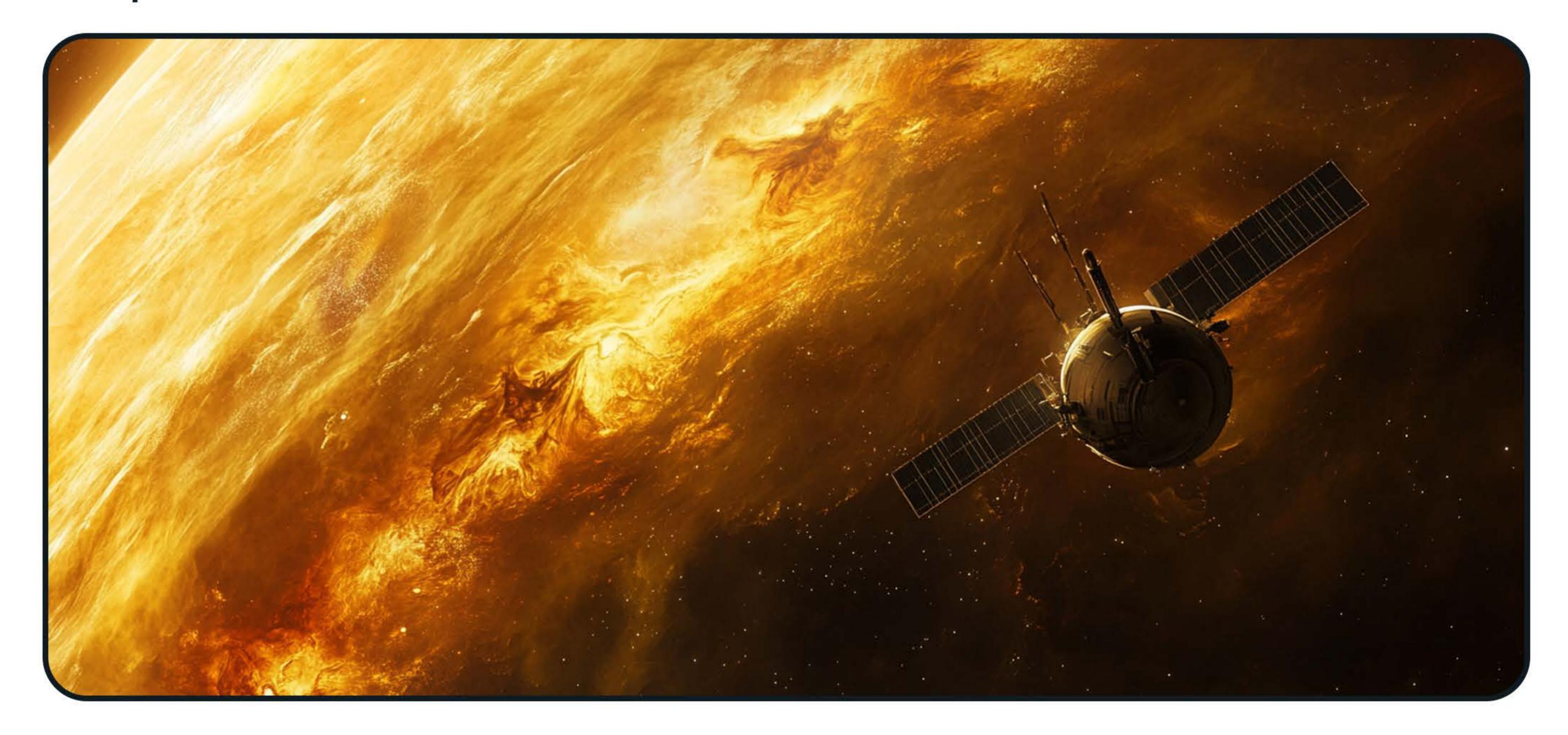
Upcoming Missions:

**DAVINCI (2029)** and **VERITAS (2031)** – NASA

EnVision (2031) - ESA

# Way Forward

- Strengthen International Collaboration: Leverage partnerships for payload development and data exchange.
- Expand Exploration Capabilities: Develop advanced technology to withstand Venus's extreme environment.
- Boost India's Role in Planetary Science: Demonstrate India's capability for deep-space exploration.



# BARC's Participation in IAEA's 'Atoms4Food' Initiative

# Why in News?

- Bhabha Atomic Research Centre (BARC) participated in the International Atomic Energy Agency (IAEA) Scientific Forum under the theme 'Atoms4Food.'
- The initiative was launched by IAEA and FAO during the 2023 World Food Forum held in Rome, Italy.

### About 'Atoms4Food'

#### Objective:

Utilize **nuclear techniques** and advanced technologies to enhance **agriculture** and **livestock productivity**.

Reduce food losses and boost global food security to tackle hunger.

#### **Key Statistics:**

**600 million people** are projected to suffer from chronic undernourishment by **2030** (FAO).

**World population** expected to increase by **one-third by 2050**, mostly in developing countries (UN).



# Nuclear Technologies in Agriculture

- Irradiation Technique: Extends shelf life of food by reducing/eliminating microorganisms and insects.
- Fallout Radionuclide (FRN) Technique: Measures soil erosion patterns by analyzing radionuclide concentrations in soil.
- Cosmic-Ray Neutron Sensor (CRNS) Technology: Detects soil moisture levels across large areas using reflected cosmic-ray neutrons.
- Radioimmunoassay (RIA) Technology: Measures hormone levels in animals to optimize timing for artificial insemination.
- Sterile Insect Technique (SIT): Controls pests by releasing sterilized insects that reduce wild populations.
- Other Technologies:

Nitrogen-15 technique: Measures nitrogen fixation in plant roots.

Isotopic tracing: Enhances crop nutrition and water management strategies.

### India's Initiatives in Nuclear Agriculture

- Food Irradiation Units: Provisions under Pradhan Mantri Kisan SAMPADA Yojana (PMKSY) to support multiproduct irradiation units.
- High-Yield Seed Varieties: BARC developed 42 seed varieties through Gamma irradiation.
- Irradiation Facilities: BARC operates two major irradiation facilities at Vashi and Nashik in Maharashtra.

# Way Forward

- Expand Use of Nuclear Techniques: Promote wider adoption of technologies like SIT and RIA for pest control and livestock productivity.
- Strengthen Irradiation Infrastructure: Increase the number of food irradiation units to reduce post-harvest losses.
- International Collaboration: Enhance partnerships with organizations like IAEA and FAO to gain access to cutting-edge technologies.
- Public Awareness Campaigns: Educate farmers and consumers about the benefits of nuclear techniques in food production and safety.



# 'Benchmarking Infrastructure Development' Report

# Why in News?

- World Bank Group released the 'Benchmarking Infrastructure Development' report.
- The report analyzes Public-Private Partnership (PPP) regulatory frameworks across 140 economies.
- It highlights the correlation between PPP regulatory reforms and infrastructure investments.

#### What is PPP?

Public-Private Partnership (PPP): A model where private sector organizations (both for-profit and non-profit) deliver public services, while the government remains responsible for providing essential resources.

# Key Highlights of the Report

Public Fiscal Management System (PFMS):

Only 19 economies have adopted budgeting, reporting, and accounting provisions for PPPs.

Only 18 economies disclose PPP liabilities publicly.

Importance: A robust PFMS ensures financial sustainability and mitigates risks related to distressed or cancelled PPP projects.

#### Monitoring and Evaluation:

Only 37% of economies link payments to project performance through monitoring mechanisms.

#### Renegotiation of PPP Contracts:

90% of surveyed economies have express regulations for renegotiation.

However, only 19% explicitly address changes in risk allocation during renegotiation.

# Challenges to PPP in India

#### Financial Issues:

Aggressive bidding and project underpricing lead to unsustainable outcomes.

Frequent project delays result in cost overruns.

#### Capacity and Procedural Challenges:

Public sector lacks adequate management capacity for handling PPPs effectively.

Delays in environmental clearances and other approvals impede progress.

#### Regulatory and Institutional Gaps:

No comprehensive National PPP policy to guide investments and operations.

**Information asymmetry** and lack of reliable data on private sector providers pose challenges.

# Existing PPP Framework in India

#### Department of Economic Affairs (DEA):

A **Private Investment Unit** within the DEA, under the **Ministry of Finance**, handles **policy-level matters** on PPPs.

#### NITI Aayog's PPP Vertical:

Provides policy recommendations and standardizes PPP documents.

Focuses on recycling and monetization of core infrastructure assets to enable creative destruction.

### Kelkar Committee (2015) Recommendations

**Establish Independent Sectoral Regulators:** To harmonize performance across PPP sectors.

**Discourage Unsolicited Proposals (Swiss Challenge):** To promote transparency and address information asymmetry.

Create a National Facilitation Committee: To ensure time-bound resolutions for approvals and clearances.

- Policy Reforms: Formulate a comprehensive National PPP policy to guide public and private collaboration.
- Capacity Building: Enhance public sector capacity for PPP project management.
- Robust Monitoring: Implement mechanisms linking payments to performance to ensure project accountability.
- Strengthen Information Systems: Improve data reliability and access to information on private sector providers.

# India-Maldives Bilateral Talks

# Why in News?

- The Prime Minister of India held bilateral talks with Maldives President during the latter's visit to New Delhi.
- We Key agreements and initiatives were announced to enhance economic, maritime, and strategic cooperation between the two countries.

# Key Outcomes of the Bilateral Talks

- Comprehensive Economic and Maritime Security Partnership Both sides adopted a joint vision for economic and maritime cooperation, covering multiple areas.
- Development Cooperation: Agreed on timely completion of the Greater Malé Connectivity Project.
- Trade and Economic Cooperation
  - Initiated discussions on a Bilateral Free Trade Agreement (FTA).
  - Decided to operationalize trade in local currencies, reducing dependency on foreign currencies.
- Digital and Financial Initiatives: RuPay card launch in Maldives to facilitate easier payments for Indian tourists.
- Health Cooperation: Maldives to recognize Indian pharmacopoeia, paving the way for India-Maldives Jan Aushadhi Kendras across the country.
- Currency Swap Agreement (CSA)
  - Signed a Currency Swap Agreement (CSA) of USD 400 million and INR 30 billion to support Maldives' foreign exchange reserves.
  - Signed under the SAARC Currency Swap Framework (2024-27).

# What is a Currency Swap Agreement (CSA)?

- A CSA is a contract between two countries to exchange currencies at a pre-determined rate, with a future re-exchange at a set date.
- India has previously signed CSA agreements with countries like Sri Lanka and Japan.



# Importance of Maldives for India

#### Strategic Positioning

Maldives acts as a 'toll gate' between critical Indian Ocean chokepoints:

Gulf of Aden and Strait of Hormuz (Western Indian Ocean).

Strait of Malacca (Eastern Indian Ocean).

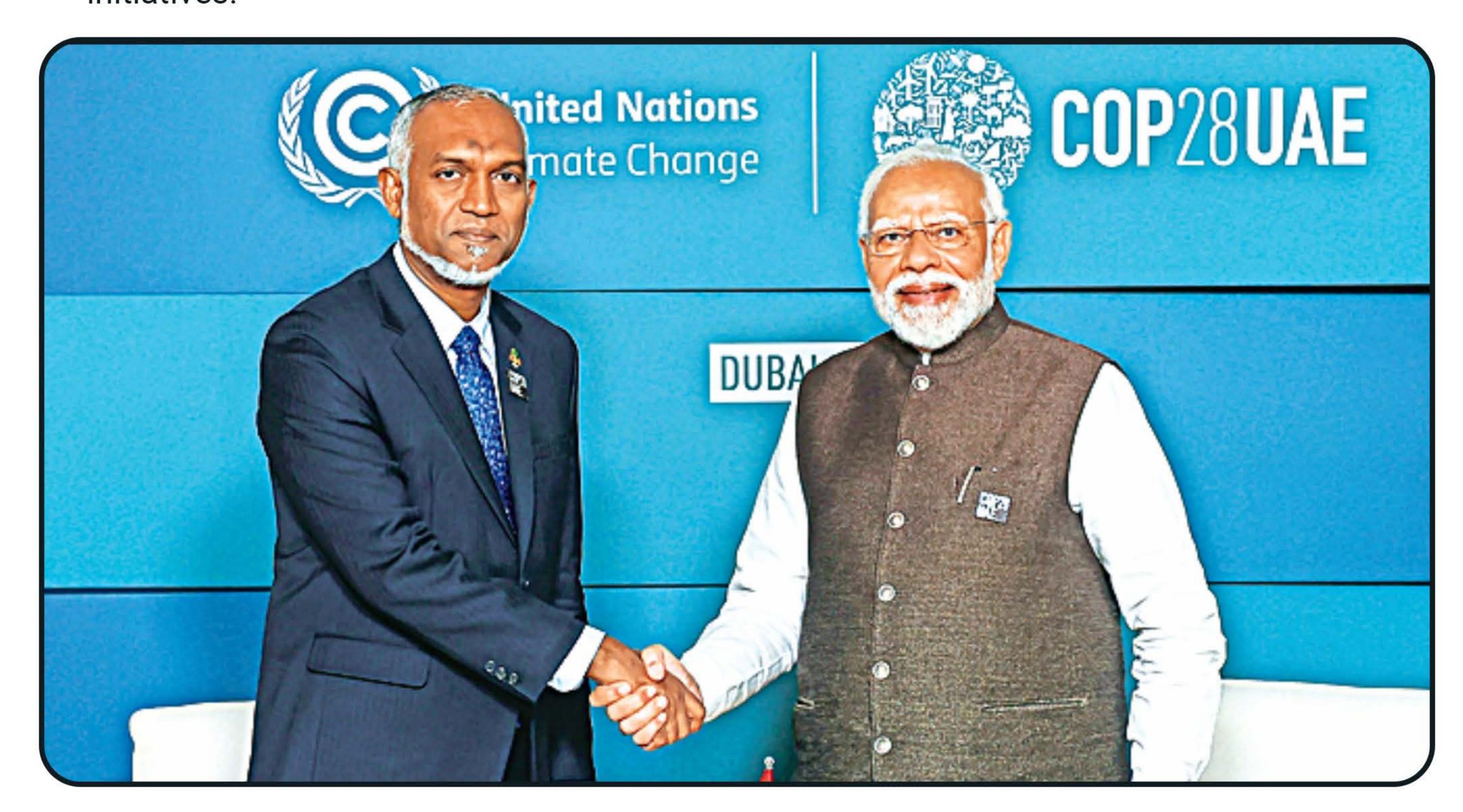
#### "Neighbourhood First' Policy (NFP) and SAGAR Initiative

Maldives is a key partner under India's Neighbourhood First Policy and SAGAR (Security and Growth for All in the Region).

### India-Maldives Relations

- Covid-19 Vaccine Diplomacy: Maldives was the first country to receive Covid-19 vaccines from India.
- Trade and Economic Ties: India emerged as Maldives' largest trade partner in 2023.
- Humanitarian Aid: India provided water aid to Malé through Operation NEER.

- Strengthen economic ties through faster completion of development projects and trade agreements.
- Enhance strategic cooperation to maintain maritime security in the Indian Ocean region.
- Promote **people-to-people connections** through tourism, healthcare, and digital payment initiatives.



# India-UAE Bilateral Investment Treaty (BIT)

# Why in News?

- The India-UAE Bilateral Investment Treaty (BIT), signed in February 2024 in Abu Dhabi, came into force on 31st August 2024.
- The Bilateral Investment Promotion and Protection Agreement (2013) between the two countries expired in September 2024.

# About Bilateral Investment Treaties (BITs)

- Reciprocal agreements between two nations to promote and protect foreign private investments.
- Ensure fair treatment under international law and protect investments from expropriation by host countries.
- India adopted a new Model BIT text in 2015, replacing the 1993 model to better safeguard national interests.

# Key Features of India-UAE BIT (2024)

- Investor-State Dispute Settlement (ISDS): Disputes will be resolved through arbitration after exhausting local remedies for 3 years.
- Definition of Investment: Uses a closed asset-based definition that includes portfolio investments.
- Fair Treatment and Legal Protection
  - Ensures no denial of justice or fundamental breach of due process for foreign investments.
  - Protects investments from expropriation and mandates compensation for losses.
- Transparency and Transfer Provisions: Provides clear policies on investment transparency, transfer of capital, and compensation.



# Significance of India-UAE BIT

- UAE's Importance for India's FDI: UAE is the seventh largest FDI source for India, contributing 3% of total FDI (\$19 billion) between April 2000 and June 2024.
- Boosting Investor Confidence:
- The BIT ensures minimum standards of treatment and non-discrimination for foreign investments.
- Provides an independent arbitration forum for resolving disputes, improving ease of doing business.

- Strengthen economic cooperation by encouraging FDI flows from UAE across key sectors.
- Monitor the implementation of BIT provisions to ensure smooth functioning and investor trust.
- Use the BIT framework to explore new investment avenues and build stronger bilateral economic relations.



# Nobel Prize for microRNA Discovery

# Why in News?

- Nobel Prize in Physiology or Medicine 2024 awarded to Victor Ambros and Gary Ruvkun.
- Recognized for the discovery of microRNAs and their crucial role in post-transcriptional gene regulation.

# About Gene Regulation

- Gene Regulation: Cells control which genes are expressed, allowing production of specific proteins.
- Process: Genetic info flows from DNA → mRNA (via transcription) → Proteins.
- Despite identical genetic info in all cells, gene regulation enables specialized functions of different cells (e.g., muscle, nerve).

#### What is microRNA?

- microRNAs: Small, non-coding RNA molecules (~22 nucleotides) involved in regulating gene expression.
- Regulate gene expression by:
  - Binding with mRNA to prevent protein translation.
  - Degrading mRNA, inhibiting protein synthesis.
- Humans possess 1,000+ microRNA genes, with universal gene regulation across multicellular organisms.

#### Roles of microRNA

- Cellular Development: Involved in tissue and organ differentiation.
- Immune Response: Regulates both innate and adaptive immune systems.
- Oncogenesis: Dysregulation linked to cancer; can act as tumor suppressors.
- Disease Diagnostics: Serve as biomarkers for diseases like cancer and Parkinson's.

- Continued research into microRNA could lead to therapeutic breakthroughs in treating diseases linked to gene regulation.
- microRNA-based diagnostics may improve early disease detection and personalized treatments.



# Nobel Prize in Physics 2024

# Why in News?

- → John Hopfield and Geoffrey Hinton awarded Nobel Prize in Physics 2024 for their pioneering work on Artificial Neural Networks (ANNs).
- Their contributions laid the foundation for machine learning using ANNs, a critical component of Artificial Intelligence (AI).

#### What are ANNs?

- ANNs are a subset of Machine Learning algorithms that model the workings of the human brain.
- They consist of interconnected nodes (artificial neurons) that process information like biological neurons in the brain.

# Key Discoveries

#### John Hopfield

Developed Hopfield Networks to store and recall patterns, akin to human memory.

Based on the physics of atomic spin, which describes a material's characteristics at the atomic level.

#### **Geoffrey Hinton**

Invented the **Boltzmann Machine**, a network that autonomously learns patterns in data.

This model uses principles from statistical physics and can identify features in data such as images.

#### Role of ANNs in Al

- Deep Learning: ANNs form the basis of Deep Learning, allowing the processing of large datasets and complex models.
- Al Applications: Used in image recognition, natural language processing, and autonomous systems.
- Learning from Data: Example: ANNs trained on medical images can detect tumors in new images with high accuracy.



- Continued advancements in ANN-based technologies will enhance Al's capabilities across sectors.
- Exploring the integration of physics-based methods can further optimize machine learning models.



# Nobel Prize in Chemistry 2024

# Why in News?

- Nobel Prize in Chemistry 2024: Awarded to David Baker, Demis Hassabis, and John M. Jumper for their groundbreaking work in protein research.
- David Baker: Recognized for computational protein design.
- Demis Hassabis and John M. Jumper: Awarded for their work in protein structure prediction using Artificial Intelligence (AI).

# Key Contributions

#### Prediction of Protein Structures:

Demis Hassabis and John M. Jumper developed the Al model AlphaFold2.

Solved a 50-year-old problem: Predicting how proteins fold into complex structures.

AlphaFold2 can predict the structure of nearly all 200 million proteins based on their amino acid sequence.

#### Computational Protein Design:

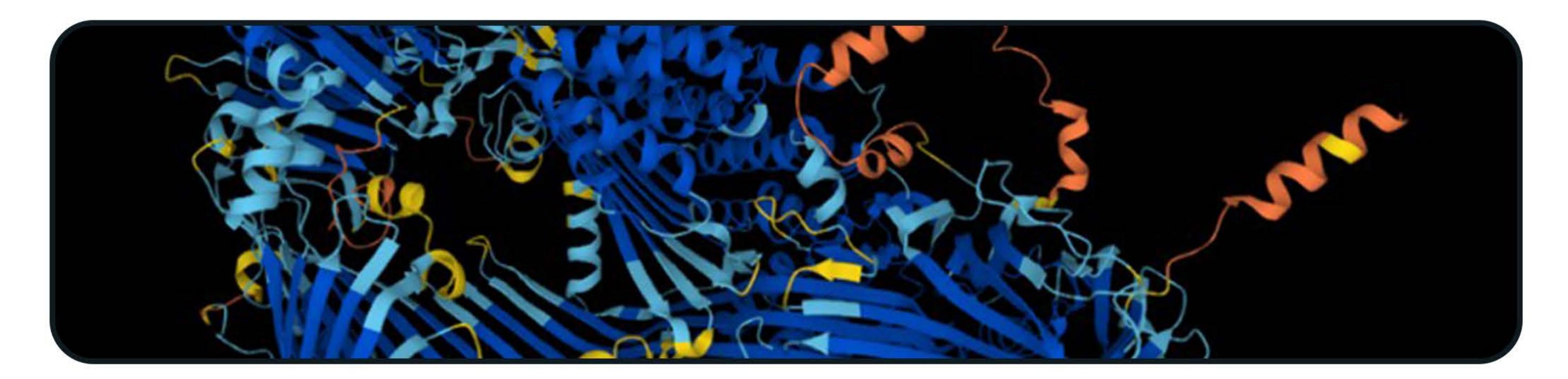
David Baker created new proteins with unique shapes and functions.

His program, Rosetta, suggests amino acid sequences to produce desired protein structures.

These newly designed proteins have various applications, such as in pharmaceuticals, vaccines, nanomaterials, and plastic breakdown.

# Applications of New Proteins

- Pharmaceuticals: Creation of new drugs and treatments.
- Vaccines: Development of innovative vaccines.
- Nanomaterials: Use in tiny sensors and advanced materials.
- Environmental Solutions: Proteins designed to break down plastics and other pollutants.



#### About Proteins

- Essential Biomolecules: Proteins are large, complex molecules responsible for driving chemical reactions, structure, function, and regulation in living organisms.
- Structure: Made up of long chains of amino acids (polypeptides) whose sequences are determined by the DNA of protein-encoding genes.
- Functions: Proteins act as hormones, signal substances, antibodies, and structural components of tissues and organs.

# Significance of the Research

- Solving Complex Biological Problems: The ability to predict protein structures and design new proteins represents a huge leap in understanding life processes and advancing biotechnology.
- Al in Science: The use of Al in predicting protein structures opens doors for more rapid discoveries in biological research and medicine.

- Further Exploration: Future research could focus on creating proteins for targeted medical treatments, sustainable materials, and more effective environmental solutions.
- Collaboration in Biotechnology: The combination of Al and computational biology can lead to significant advancements in health, environmental sustainability, and industrial innovation.



# MACE Observatory at Hanle, Ladakh: Key Highlights

### Why in News?

- The Department of Atomic Energy (DAE) inaugurated the Major Atmospheric Cherenkov Experiment (MACE) Observatory in Hanle, Ladakh, as part of its Platinum Jubilee celebrations.
- The DAE, established in 1954 under the Atomic Energy Act, 1948, leads research and development for the peaceful uses of atomic energy.

# About MACE Observatory

- Asia's largest imaging Cherenkov telescope and second-largest in the world.
- Located at an altitude of ~4,300 meters, making it the highest such observatory globally.
- Built indigenously by Bhabha Atomic Research Centre (BARC), with support from Electronics Corporation of India Ltd. (ECIL) and other partners.

# Objective

- To observe **high-energy gamma rays** and study **energetic cosmic events** such as supernovae, black holes, and gamma-ray bursts.
- Complements global observatories like the High Energy Stereoscopic System (HESS).

#### Cherenkov Radiation

Named after Pavel Alekseyevich Cherenkov, who discovered that charged particles emit light when they travel through a non-conducting medium at high speed.

# About Gamma Rays

- Gamma rays are electromagnetic waves with smallest wavelengths and the highest energy.
- Sources of Gamma Rays

In the universe: Emitted by neutron stars, supernovae, pulsars, and black holes.

On Earth: Produced by radioactive decay, nuclear explosions, and lightning.



# Why was Hanle, Ladakh, Chosen?

- Hanle Valley (4250m above sea level), a dry, cold desert, offers minimal atmospheric interference and low human activity.
- Cloudless skies and low water vapor make it an ideal location for optical, infrared, and millimetre-wave observations.
- In 2022, the Hanle Dark Sky Reserve (HDSR) was established to promote astro-tourism.

### Way Forward

- Strengthen international collaborations through complementary research with other observatories.
- Promote Hanle as a hub for scientific research and astro-tourism in India.
- Facilitate advanced gamma-ray studies to unlock deeper insights into cosmic phenomena.



# India Eliminates Trachoma as a Public Health Problem: WHO Announcement

# Why in News?

- The World Health Organization (WHO) has declared that India has successfully eliminated trachoma as a public health problem.
- India becomes the **third country** in the South-East Asia Region to achieve this milestone, following Nepal and Myanmar.
- Previously, WHO recognized India as free from two other Neglected Tropical Diseases (NTDs):

Guinea Worm Disease (2000)

Yaws (2016)

#### About Trachoma

- Trachoma is an eye infection caused by the bacterium Chlamydia trachomatis.
- lt is a contagious disease, spreading through contact with infected eyes, noses, and other bodily fluids.
- If left untreated, it can lead to irreversible blindness.
- Status in India: In 1971, blindness due to trachoma was 5%; this has now decreased to less than 1%.

# Interventions Implemented

- National Programme for Control of Blindness & Visual Impairment (NPCBVI).
- Adoption of the WHO SAFE strategy (Surgery, Antibiotics, Facial cleanliness, Environmental improvement).

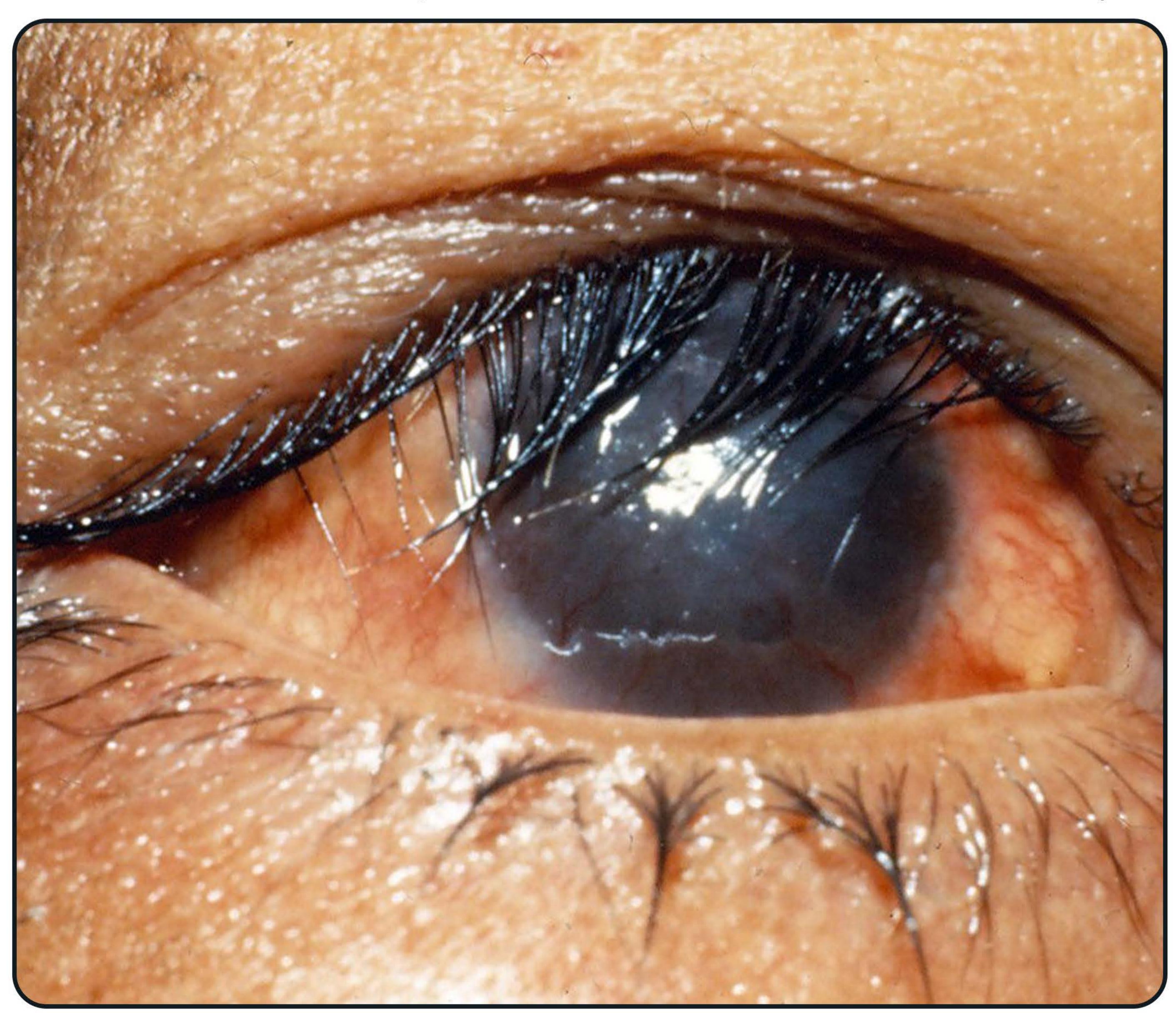
# Understanding Neglected Tropical Diseases (NTDs)

- NTDs are a diverse group of diseases caused by various pathogens, including viruses, bacteria, parasites, fungi, and toxins.
- Predominantly found in impoverished communities living in tropical regions with poor environmental conditions.
- Referred to as **neglected** due to their absence from the global health agenda, low funding, and associated stigma and social exclusion.

# Steps Taken for NTDs

- Globally: Initiatives include the Global NTD Annual Reporting Form (GNARF), Global Vector Control Response 2017–2030 (GVCR), and the Kigali Declaration on NTDs (2022).
- India: Implementation of the National Vector Borne Diseases Control Programme (NVBDCP).

- Continue surveillance and monitoring to ensure trachoma does not re-emerge.
- Enhance public awareness about trachoma prevention and treatment.
- Strengthen healthcare infrastructure to support ongoing initiatives for the elimination of other NTDs.
- Collaborate with global health organizations to secure funding and technical assistance for NTD programs.
- Promote research and development for innovative solutions to tackle NTDs effectively.





# **Categories of NTDs**

#### Helminth NTDs

- Taeniasis/Cysticercosis
- Guinea Worm Disease
- Echinococcosis
- Foodborne Trematodiases
- Lymphatic Filariasis
- Soil-Transmitted Helminthiases
- Schistosomiasis
- Onchocerciasis

#### Protozoan NTDs

- Chagas Disease
- Leishmaniasis
- Human African Trypanosomiasis

#### Fungal NTDs

- Mycetoma
- Chromoblastomycosis
- Other deep mycoses

#### Viral NTDs

- Rabies
- Dengue
- Chikungunya

#### Bacterial NTDs

- Buruli Ulcer
- Leprosy
- Trachoma
- Yaws

#### Non-Infectious NTDs

Snakebite envenoming

#### Ectoparasitic NTDs

- Scabies
- Other ectoparasites





# India's 5th Lunar Mission: Lunar Polar Exploration Mission (LUPEX) Approved

### Why in News?

- The National Space Panel has approved LUPEX, India's fifth lunar mission.
- LUPEX will serve as a precursor to India's lunar sample return mission and aims to send the first Indian to the moon by 2040.

#### About the LUPEX Mission

#### Purpose:

Investigate the quantity and quality of water on the Moon.

Explore the dark side (far side) of the Moon, which is never visible from Earth due to its tidal locking with Earth.

#### International Collaboration:

The Indian Space Research Organisation (ISRO) will develop the lunar rover.

Japan's JAXA is responsible for the lander.

Observation instruments from NASA and the European Space Agency (ESA) will be mounted on the rover.

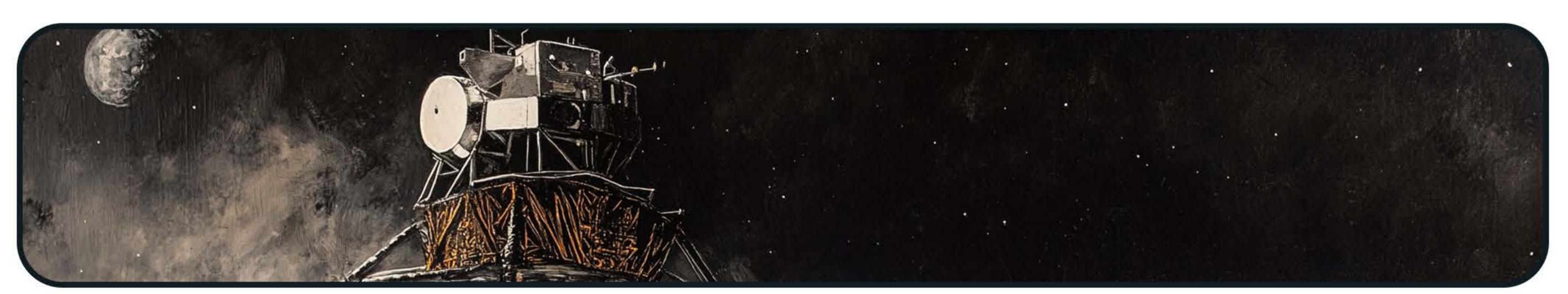
#### Landing Location:

The mission will target the south pole of the Moon, believed to have high water potential.

The south pole presents challenges for landing due to limited flat areas with adequate illumination and communication conditions.

# Significance of the Mission

India made history with the successful landing of the Vikram Lander on the south pole during the Chandrayaan-3 mission, becoming the first country to land in this region and the fourth country overall to land on the Moon (after the US, Russia, and China).





- Prepare for the LUPEX mission: Ensure that all technical and operational aspects are in place for a successful launch and landing.
- Enhance international collaboration: Strengthen partnerships with JAXA, NASA, and ESA to leverage expertise and resources.
- Conduct thorough research and development: Focus on developing advanced technologies for the lunar rover and lander.
- Engage the public: Increase awareness and interest in lunar exploration through outreach programs and educational initiatives.
- Plan for future missions: Use the findings from LUPEX to pave the way for India's lunar sample return mission and human exploration by 2040.



# Second All India Rural Financial Inclusion Survey (NAFIS) 2021-22

# Why in News?

- NABARD released the Second All India Rural Financial Inclusion Survey (NAFIS) for 2021-22.
- The survey provides a comprehensive overview of rural livelihoods and financial inclusion, with a focus on loans, insurance, and pension schemes.
- NAFIS 2021-22 offers insights into rural development trends since its first edition in 2016-17.

# Key Highlights

- Rural Income Growth: Average monthly household income increased by 57.6%.
- Consumption Patterns: Share of food in household consumption dropped from 51% to 47%.
- Financial Inclusion: The Kisan Credit Card emerged as an effective tool for financial inclusion in the rural farming sector.
- Landholding Size: Average landholding size decreased from 1.08 hectares to 0.74 hectares.
- Financial Literacy: Respondents reporting good financial literacy rose from 33.9% to 51.3%.
- Institutional Loans: Agricultural households taking loans from institutional sources increased from 60.5% to 75.5%.

#### Reasons for Rise in Rural Income

- Government Support: Programs like MGNREGA helped 5.6 crore households secure employment (as of January 2023), boosting income and livelihood security.
- Female Workforce Participation: The rural female labor force participation rate increased from 19.7% (2018-19) to 27.7% (2020-21) (Economic Survey 2022-23).



#### About NABARD

- Formed based on the recommendation of the B. Sivaraman Committee.
- Established in **1982** as India's apex development bank, focusing on sustainable and equitable agriculture and rural development.

#### NAFINDEX: Financial Inclusion Measure

- NAFINDEX is a tool based on data from the first NAFIS (2016-17) that measures financial inclusion across Indian states.
- lt uses three dimensions: traditional banking products, modern banking products, and payment systems.

- Continue strengthening financial literacy programs to empower rural communities.
- Encourage the use of institutional loans to reduce dependence on informal credit.
- Leverage government schemes to enhance income and provide livelihood security, especially in agriculture and allied sectors.



# Draft National Sports Governance Bill, 2024 Released

# Why in News?

The Ministry of Youth Affairs and Sports has unveiled the Draft National Sports Governance Bill, 2024, seeking public feedback.

#### Aims of the Bill

- Promote Sports Development: Enhance athlete welfare and promote ethical practices through effective governance.
- Establish Governance Standards: Develop institutional capacity and set prudential standards for sports federations.
- Resolve Grievances: Create a unified and effective framework for resolving sports grievances and disputes.

# Key Features of the Bill

Sports Regulatory Board:

Acts as the central authority to recognize National Sports Federations (NSFs).

Ensures compliance with governance and ethical standards.

- Ethical Standards: Establishes mandatory ethical governance through Ethics and Dispute Resolution Commissions to maintain integrity and transparency.
- Athletes Commissions: Represents athletes in decision-making processes and allows them to raise concerns, with funding provided by the government.
- Athlete Representation: Mandates that 10% of voting members in sports bodies be top athletes elected by the Athletes Commission, including one male and one female member on the Executive Committee.
- Safe Sports Policy: Protects athletes, particularly minors and women, from harassment, in compliance with the Protection of Women from Sexual Harassment Act.
- Anti-Doping Compliance: Enforces strict anti-doping regulations aligned with international ethical standards.
- Public Accountability: Ensures sports organizations are subject to the Right to Information Act for enhanced transparency.
- Gender Representation: Requires that at least 30% of governing body members be female.

- Public Feedback: Encourage stakeholders, including athletes and sports organizations, to provide input on the draft bill.
- Finalize the Bill: Incorporate feedback and finalize the legislation for approval by the government.
- Implementation: Develop a comprehensive strategy for the effective implementation of the bill once enacted.
- Awareness Campaigns: Conduct awareness campaigns to educate athletes and sports bodies about their rights and responsibilities under the new governance framework.
- Monitoring Mechanism: Establish a robust monitoring mechanism to ensure compliance with the provisions of the bill and promote good governance practices.





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