

### International

#### Bangladesh interim govt announces nine-member constitution reform commission

##### About News:-

A nine-member Constitution Reform Commission, led by professor Ali Riaz, an American from Bangladesh, has been established by the interim government of Bangladesh to examine and suggest revisions in ninety days. Created following the resignation of Prime Minister Sheikh Hasina, the commission's goal is to establish a framework that is more democratic and representative. Professors, legal professionals, and student representatives are among the members; Mahfuj Alam, a student, works as Chief Adviser Muhammad Yunus's special assistant. The commission is a component of larger changes Yunus announced, including commissions for public administration, the courts, the police, the electoral system, and anti-corruption.



##### Commission Organization

Notable individuals on the commission include human rights campaigner Md Mustain Billah, Supreme Court attorney Dr. Sharif Bhuiyan, and professors Sumaiya Khair and Muhammad Ikramul Haq of Dhaka University. They will compile a range of viewpoints to offer suggestions for constitutional amendments.

##### Participants

- ❖ Professors Sumaiya Khair and Muhammad Ikramul Haq are from Dhaka University.
- ❖ Attorneys: Dr. Sharif Bhuiyan and Barrister Imran Siddique.
- ❖ Md Mustain Billah and Firoz Ahmed are writers and activists.
- ❖ Additional members include student representative Mahfuj Alam, a special assistant to Chief Adviser Muhammad Yunus, and barrister M Moin Alam Ferozi.
- ❖ Context: Established upon the departure of Prime Minister Sheikh Hasina in August 2024 as a result of widespread demonstrations.
- ❖ Related Reforms: A component of more extensive sectoral reforms involving the police, courts, electoral process, public administration, and anti-corruption efforts.

### National

#### Union Cabinet approves development of National Maritime Heritage Complex in Gujarat's Lothal



##### About News:-

- ❖ In a meeting presided over by Prime Minister Narendra Modi on October 9, 2024, the Union Cabinet gave its approval for the construction of the National Maritime Heritage Complex in Lothal, Gujarat. The development of the Heritage Complex at Lothal, the historic Indus Valley Civilization site, will take place in two stages.
- ❖ The development of the National Maritime Heritage Complex as a global tourism attraction is underway. It would showcase India's maritime history from antiquity to the present and increase public knowledge of it.

##### The National Maritime Heritage Complex is being developed by who?

- ❖ In partnership with the state government of Gujarat, the Union Ministry of Ports, Shipping, and Waterways is building the National Maritime Heritage Complex at Lothal as part of the Sagarmala project.
- ❖ At an estimated cost of Rs 4500 crore, it is being constructed on over 400 acres of land in Gujarat's Bhavnagar district. In March 2022, construction on the complex began.

##### The National Maritime Heritage Complex's phases

- ❖ Phases I and II of the National Maritime Heritage Complex development are underway.
- ❖ Two phases, A and B, have been separated from Phase I.

##### Stage One

- ❖ The National Maritime Heritage Complex will have six galleries constructed.
- ❖ It will feature the biggest Navy and Coast Guard gallery in India, featuring artifacts from the Navy such as the INS Nishank, Sea Harrier fighter planes, UH3 helicopters, etc.

- ❖ There will also be a jetty walkway and the largest open aquatic gallery in the world surrounding a copy of the Lothal settlement.

### Stage B

- ❖ The complex will add eight more galleries.
- ❖ Supported by the Directorate General of Lighthouses and Lightships, it will have the highest lighthouse museum in the world.
- ❖ Additionally, a Bagicha complex with services for tourists will be built.

### Stage Two

- ❖ Each Coastal State and Union Territory will design and construct a unique pavilion within the complex
- ❖ There will be the construction of four theme parks: an adventure and amusement park, a climate theme park, a maritime and navy theme park, and a memorial theme park.
- ❖ The architecture and way of life of the Harappans will be replicated through the real-time recreation of Lothal City.

### Concerning Lothal

The only port town associated with the Indus Valley Civilization is Lothal.

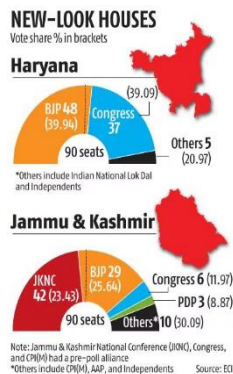
- ❖ Situated beside the Bhogava River, a tributary of the Sabarmati River, is the 4,500-year-old archaeological site.
- ❖ Lothal is regarded as one of the world's oldest port cities with a functional dock system.
- ❖ The word "mound of the dead" in Gujarati refers to the Lothal.

## State

### Haryana and J&K assembly election result highlights

#### About News:-

- ❖ In Haryana, the Bharatiya Janata Party (BJP) won a remarkable third straight term in office. The alliance led by the National Conference was able to obtain the necessary majority to form a government in the Union Territory of Jammu and Kashmir.
- ❖ On October 5, 2024, Haryana had an election in which there was only one phase of voting. Three waves of voting were held in Jammu and Kashmir in 2024: on September 18, on September 25, and on October 1. October 8, 2024, saw the counting of the votes.



- ❖ In 2019, Jammu and Kashmir saw its first election to form a new legislative assembly following its status shift from a state to a Union Territory.
- ❖ The 14th Haryana assembly will adjourn on November 3, 2024.

### The BJP has won three terms in a row in Haryana.

- ❖ Since the state of Haryana was established on November 1, 1966, no political party has been able to win the state's three successive legislative elections.
- ❖ With its third consecutive election victory, the BJP became the first political party in the state's history to return to power. It won the elections for the legislative assemblies in 2014, 2019 and 2024.
- ❖ The Bharatiya Janata Party won 47 seats in the 90-member assembly in 2014, the year it first came to power in Haryana. With 40 seats, the Bharatiya Janata Party was unable to win a majority in the 2019 legislative assembly election alone. Together with Dushyant Chautala's Jananayaka Janata party (JJP), it established a coalition government in the state.
- ❖ A single phase of voting to create the 15th Haryana Legislative Assembly took place on October 5, 2024. The Election Commission of India reports that 65.65% of voters participated in the most recent assembly election in Haryana, which has 90 seats.
- ❖ The biggest opposition party, the Congress, got 37 seats, while the Bharatiya Janata Party gained 48. Three seats were gained by independents, and two were won by the Indian Lok Dal.

### The J&K National Conference Alliance voted in favor of Power.

- ❖ On October 31, 2019, Jammu and Kashmir became a Union Territory and was divided into the Union Territories of Jammu and Kashmir and Ladakh. This resulted in the first-ever election to form a new legislative assembly in the region. Ladakh, a Union territory, does not have a legislature.
- ❖ It has been ten years since the previous assembly election in the now-unified state of Jammu and Kashmir, which took place in 2014.
- ❖ The Election Commission was instructed by the Supreme Court in December 2023 to

complete the Jammu and Kashmir election process by September 30, 2024.

- ❖ The Election Commission reports that 63.9% of voters cast ballots in the 2024 assembly election.
- ❖ In the Union Territory of Jammu and Kashmir, the alliance led by the National Conference secured 49 seats out of the 90 seats up for election. 42 seats were won by the National Conference, 6 by the Congress, and 1 by the Communist Party of India (Marxist).
- ❖ The Peoples Democratic Party (PDP), led by former chief minister Mehbooba Mufti, gained three seats, making the Bharatiya Janata Party the second-largest party with 29 seats.
- ❖ The current legislative assembly is in session for five years. When Jammu and Kashmir was a state, its legislative assembly had a six-year term.

### Maharashtra

#### PM Modi Lays Foundation Stone for Development Projects Worth Over ₹7,600 Crore in Maharashtra

##### About News:-

Prime Minister Narendra Modi on Wednesday (9 Oct 2024) virtually laid the foundation stone for various development projects in Maharashtra, totaling more than Rs 7,600 crore.



##### Key Points:-

- ❖ PM Modi laid the foundation for the Rs 7,000 crore upgrade of Babasaheb Ambedkar International Airport in Nagpur, a project aimed at boosting sectors like manufacturing, tourism, and healthcare in the Vidarbha region. He initiated the construction of a new terminal at Shirdi Airport, worth Rs 645 crore, which will cater to religious tourists with a design inspired by the spiritual neem tree of Sai Baba.
- ❖ The Prime Minister also launched 10 new government medical colleges across Maharashtra and inaugurated the Indian Institute of Skills (IIS) in Mumbai, which will provide cutting-edge training in areas like artificial intelligence and robotics.

- ❖ Additionally, PM Modi inaugurated the Vidya Samiksha Kendra (VSK), aimed at improving education management by offering data-driven insights for schools and resources for teaching and learning.

### Appointment

#### MEA names Sanjeev Singla, and Ajit Gupte as ambassadors to France, Germany



##### About News:-

- ❖ The next Indian ambassador to the Federal Republic of Germany is Ajit Vinayak Gupte.
- ❖ Sanjeev Kumar Singla will serve as India's ensuing ambassador to France.

##### About Vinayak Gupte, Ajit:

- ❖ Officer in the Indian Foreign Service (IFS) class of 1991.
- ❖ As the Indian ambassador to Egypt at the moment.
- ❖ Previous Position: From November 2017 to March 2021, I held the position of Indian Ambassador to the Kingdom of Denmark.
- ❖ Transition: He is anticipated to start his new job in Germany soon.

##### Sanjeev Kumar Singla's biography:

- ❖ Officer in the Indian Foreign Service (IFS) class of 1997.
- ❖ Currently serving as Israel's ambassador for India.
- ❖ Previous Position: On July 19, 2019, I was appointed as India's ambassador to Israel, taking over from Pavan Kapoor, an IFS officer from the 1990 cadre.
- ❖ Previous Position: Prime Minister Narendra Modi's private secretary.
- ❖ Background: Previously employed in Tel Aviv's Indian Embassy.
- ❖ Transition: He is anticipated to start his new job in France soon.

### Defence

#### Visakhapatnam to host Malabar 2024 from October 8



### About News:-

- ❖ On November 8, 2024, the Indian Navy staged the 28th iteration of the multinational Malabar Naval exercise, which got underway in the Bay of Bengal. October 8–18, 2024, is when the exercise will take place. On October 9, 2024, at Visakhapatnam, the Indian Naval Ship Satpura hosted the opening ceremony of the Malabar Naval Exercise.
- ❖ In August 2023, the Royal Australian Navy hosted the 27th Malabar Naval Exercise, which was held close to Sydney.

### Currently known as a Quad Naval Exercise, Malabar

- ❖ In 1992, the Indian and US Navys conducted a bilateral exercise that gave rise to the Malabar Exercise. Japan became a regular participant in the Malabar exercise in 2015.
- ❖ Australia became a regular participant in the Malabar exercise in 2020, having first joined in 2007.
- ❖ This is the fifth time that all four countries have taken part in the joint preparation, coordination, and use of cutting-edge military techniques amongst participant nations, as part of the 28th Malabar exercise.
- ❖ The United States, Japan, Australia, and India are the four nations that make up the Quad group. The leaders of the four nations gathered for the sixth summit meeting of the Quad countries, which took place in September 2024 in the United States.
- ❖ Maintaining an open and unrestricted Indo-Pacific area for security and navigation is Quad's main goal. The Western Pacific Ocean and the entire Indian Ocean are included in the Indo-Pacific area.
- ❖ The yearly Malabar exercise promotes a cooperative strategy for regional security and stability.
- ❖ The Malabar exercise is currently held in a different member country every year.

### Award

### Nobel Chemistry Prize 2024 goes to protein pioneers Baker, Hassabis, and Jumper



David Baker

Demis Hassabis

John M. Jumper

### About News:-

David Baker for his creative work in computational protein design and Demis Hassabis and John M. Jumper for their groundbreaking AI-based protein structure prediction have been named the recipients of the 2024 Nobel Prize in Chemistry. The Royal Swedish Academy of Sciences has acknowledged these findings, which mark significant progress in our knowledge of and ability to create proteins.

### Specifics

### Given by the Swedish Academy of Sciences, Royal victors

1. David Baker (University of Washington, Seattle, WA, USA) received half of the prize. Recognized for the design of computational proteins.
2. The remaining portion was given to Demis Hassabis and John M. Jumper of Google DeepMind in London, UK.

### acknowledged for predicting protein structures.

### Focus on Discovery

### Proteins

- ❖ The basic chemical instruments found in all biological things.
- ❖ They direct and regulate vital chemical reactions that keep life possible.
- ❖ Act as hormones, antibodies, signaling molecules, and tissue building blocks, among other things.

### The Significance of Proteins

- ❖ There are 20 distinct amino acids found in proteins.
- ❖ The folding of amino acid chains creates their three-dimensional structure, which dictates their function.

### David Baker: Designing Proteins Through Computation

### Achieving a Milestone (2003)

- ❖ David Baker created a novel protein that is distinct from all other naturally occurring proteins.
- ❖ Since then, a large number of novel proteins have been produced by Baker's research group for use in medications, vaccines, nanomaterials, and tiny sensors.
- ❖ He reengineers the fundamental components of life to produce inventive and useful proteins.

### John Jumper and Demis Hassabis: Predicting Protein Structure

### Problem Solved

- ❖ Predicting protein structures from amino acid sequences has been a significant scientific challenge since the 1970s.
- ❖ Although difficult to pinpoint, the intricate folding of amino acids into three-dimensional structures is essential to comprehend the function of proteins.

### A breakthrough in 2020

- ❖ Hassabis and Jumper's AI model, AlphaFold2, was able to accurately predict the structures of about 200 million known proteins.
- ❖ More than 2 million people from 190 countries have widely used AlphaFold2.
- ❖ Employed in several scientific applications, such as comprehending antibiotic resistance.
- ❖ Showing how enzymes that break down plastic may be seen.

### The Significance of These Findings

- ❖ There are a ton of opportunities for science and medicine when it comes to designing novel proteins and predicting their architectures.

### Uses for These Findings

- ❖ Creating novel medications and immunizations.
- ❖ Dealing with issues like antibiotic resistance.
- ❖ Producing eco-friendly products, such as plastic-breaking enzymes.

### Advantage

- ❖ These biological advancements offer novel approaches to treating illnesses and resolving urgent environmental problems, which will be of great benefit to humanity.

### Concerning David Baker

- ❖ David Baker was born in Seattle, Washington, in 1962.
- ❖ 1989 doctorate from the University of California, Berkeley, USA.
- ❖ Lecturer at the University of Washington in Seattle, Washington, USA.

### Demis Hassabis

- ❖ Born in London, UK, in 1976, is Demis Hassabis.
- ❖ 2009. University College London, UK, awarded a PhD.
- ❖ CEO of London, UK-based Google DeepMind.

### Jumper, John M.

- ❖ John M. Jumper was born in Little Rock, Arkansas, in 1985.
- ❖ PhD 2017 from the University of Chicago, USA (Chicago, IL).

- ❖ Senior Research Scientist, London, UK, Google DeepMind.

### Prize sum

- ❖ Eleven million Swedish kronor, of which David Baker will receive half and Demis Hassabis and John Jumper will split the remaining half.

### Sport

### India to host World Pickleball Championship series in November



### About News:-

The All India Pickleball Association (AIPA) will host the prestigious World Pickleball Championship (WPC) Series for the first time in India. Scheduled to take place in Mumbai from November 12th to 17th, 2024, this major event will bring together top pickleball talent from around the world, following the successful Vietnam and Bali legs of the championship. Indian teams performed admirably in these earlier tournaments, securing Gold, Silver, and Bronze medals.

### Key Points:-

Powered by the World Pickleball League (WPBL), the WPC Series in India will feature approximately 650 players from 6 to 7 countries, including Australia, Vietnam, Taiwan, Poland, and Singapore, among others. The tournament is expected to be a significant moment for Indian sports, drawing international attention and excitement from pickleball enthusiasts globally.

### About the All India Pickleball Association (AIPA)

As the governing body for pickleball in India, AIPA has been at the forefront of efforts to popularize the sport and develop its grassroots foundations across the country. Founded by Sunil Valavalkar in 2007, the organization has been instrumental in training talented players and promoting the sport's growth. AIPA is formally affiliated with the International Pickleball Federation (IPF) and is a founding member of the Asia Federation of Pickleball. The association, under the leadership of President Arvind Ramesh Prabhoo, is dedicated to expanding pickleball's reach and gaining official recognition from the Government of India and the Sports Authority of India.

### Obituary

#### Ratan Tata passes away at 86



#### About News:-

- ❖ On October 9, 2024, Ratan Tata, the chairman of Tata Sons, passed away in Breach Candy Hospital in Mumbai at the age of 86 from a protracted age-related illness. With Tata's vision and leadership leaving a lasting impact on India's commercial and charitable scene, his demise signifies the end of an era. His status as one of the greatest industrialists of all time has been solidified by his contributions to the Tata Group, the Indian economy, and international industry.
- ❖ Millions of people throughout the world are still motivated by Tata's life, not just because of his economic savvy but also because of his dedication to philanthropy and humanitarian causes.

#### The renowned industrialist and philanthropist Ratan Tata

- ❖ Renowned Indian industrialist and philanthropist Ratan Naval Tata (28 December 1937 - 9 October 2024) chaired Tata Sons, the Tata Group's holding company, from 1991 to 2012. Later, he was appointed chairman-in-waiting from October 2016 to February 2017. Under his inspiring leadership, the Tata Group evolved from a conglomerate focused on India to a multinational corporation. Tata donated between 60 and 65 percent of his income to charity, making him one of the world's greatest benefactors thanks to his charitable endeavors.
- ❖ Childhood and Schooling
- ❖ Ratan Tata was born into a well-known Parsi Zoroastrian family in Bombay, then known as Mumbai, under the British Raj. Ratanji Tata, the son of Tata Group founder Jamsetji Tata, adopted his father Naval Tata. Ratan Tata's parents divorced when he was ten years old, and he had a difficult upbringing. Navajbai Tata, their grandmother, reared him and his younger brother Jimmy Tata.

#### Education

- ❖ Ratan Tata received his education from several prominent universities:
- ❖ Champion School (up to Class 8) in Mumbai
- ❖ The John Connon School and the Cathedral in Mumbai
- ❖ Shimla's Bishop Cotton School
- ❖ 1955 graduate of Riverdale Country School in New York
- ❖ Tata enrolled at Cornell University following his graduation from high school, where he studied architecture and graduated in 1962 with a bachelor's degree. He also finished Harvard Business School's Advanced Management Program in 1975.

#### Highlights of Your Career

##### Early Professional Life

- ❖ Tata's tenure at the Tata Group commenced in 1961 when he was employed on the Tata Steel shop floor. He was granted a managerial position with National Radio and Electronics (NELCO), a Tata subsidiary, during the 1970s, and he was successful in turning the company around before an economic downturn caused it to fail.

##### ascend to become Tata Sons chairman

- ❖ Ratan Tata succeeded J.R.D. Tata as chairman of Tata Sons in 1991. The Tata Group was a vast conglomerate with a strong emphasis on India when he took over as leader. Tata's leadership was characterized during the next twenty-one years by revolutionary choices that made the business a worldwide force to be reckoned with.

##### Key Contributions:

International Acquisitions: Some of the biggest acquisitions in Indian corporate history were led by Ratan Tata. Among them are:

1. Tetley (2000): Paid USD 450 million to Tata Tea to purchase.
  2. Corus (2007): Tata Steel paid GBP 6.2 billion to acquire the company.
  3. Jaguar Land Rover (2008): Paid USD 2.3 billion to Tata Motors to acquire.
- ❖ Tata Consultancy Services (TCS): Under his direction, the company went public in 2004, which was a significant turning point for the Indian IT sector.
  - ❖ Innovation and Product Development: Ratan Tata designed and introduced the Tata Nano, the most economical vehicle in the world, intending to enable the typical Indian family to purchase a car.

- ❖ Increasing the Group's Global Presence: More than 65% of the group's sales came from outside markets by the time Tata retired in 2012. From ₹10,000 crore in 1991 to over USD 100 billion by 2012, the Tata Group had grown its income.
- ❖ telecoms: By establishing Tata Teleservices in 1996, the group expanded its reach into the telecoms industry.

#### Retirement and Return

- ❖ Ratan On December 28, 2012, Tata announced his retirement as chairman of Tata Sons. Cyrus Mistry took over as chairman. However, Mistry lost his job in 2016 as a result of internal conflicts. In 2017, Tata took over as acting chairman and subsequently gave N Chandrasekaran full control.

#### Charitable Legacy

- ❖ Ratan Just as significant as his commercial endeavors has been Tata's charitable donations. He had a significant role in the Tata Trusts, which provide funding for development, health, and education programs throughout India. Tata has contributed to a number of causes, including disaster assistance, rural development, and cancer research.
- ❖ Notably, Tata gave USD 50 million to Cornell University in 2008, among other notable contributions. He became the university's greatest-ever foreign contributor as a result. He was awarded the Assam Baibhav Award in 2021 for his efforts to advance cancer care in Assam.

#### Interests and Personal Life

- ❖ Ratan Tata is renowned for leading a modest and uncomplicated life. He led one of the biggest corporate organizations in India, yet he kept a low profile in general. He has a strong interest in architecture, vehicles, and aircraft. Tata has always kept tight relationships with his family, including his brother Jimmy and half-brother Noel Tata, despite never being married.

#### Awards and Honors

- ❖ Ratan Tata won various awards for his services to the corporate world and the community. The following is a list of his principal honors:

Year	Award	Awarding Organization
2000	Padma Bhushan	Government of India
2006	Maharashtra Bhushan	Government of Maharashtra
2008	Padma Vibhushan	Government of India
2009	Honorary Knight Commander of the Order of the British Empire (KBE)	Queen Elizabeth II
2014	Sayaji Ratna Award	Baroda Management Association
2021	Assam Baibhav	Government of Assam
2023	Honorary Officer of the Order of Australia (AO)	Government of Australia

2000	Padma Bhushan	Government of India
2006	Maharashtra Bhushan	Government of Maharashtra
2008	Padma Vibhushan	Government of India
2009	Honorary Knight Commander of the Order of the British Empire (KBE)	Queen Elizabeth II
2014	Sayaji Ratna Award	Baroda Management Association
2021	Assam Baibhav	Government of Assam
2023	Honorary Officer of the Order of Australia (AO)	Government of Australia

#### Important Day

#### World Sight Day – 10 October

##### About News:-

- ❖ Every year, the second Thursday of October is observed as World Sight Day. This day is a global initiative promoting awareness and action against vision impairment and blindness.
- ❖ This day aims to raise awareness about the preventive measures to avoid blindness, promote eye health, and ensure equitable access to quality vision care. The global initiative encourages government healthcare providers, and individuals to prioritise eye health, and also address multiple issues like cataracts, refractive errors, and diabetic retinopathy.

**The theme for World Sight Day is "Children, Love Your Eyes".**

##### History

World Sight Day was started as part of the "Sight First" campaign which was organised by the Lions Club International Foundation in 1988. The World Health Organisation (WHO) partnered with the International Agency for the Prevention of Blindness (IAPB) in 1999 to officially establish World Sight Day, and it was first observed on October 12, 2000.

