

DAILY CURRENT AFFAIRS

30th & 31stJanuary, 2024

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S.NO.	TOPIC
1.	IS HYBRID VEHICLE BETTER THAN EV FOR INDIA
2.	RIVER-LINKING PROJECT
3.	PROS AND CONS OF SIMULTANEOUS ELECTIONS
4.	PRELIMS POINTERS

IS HYBRID VEHICLE BETTER THAN EV FOR INDIA?

SOURCE: THE INDIAN EXPRESS

<u>TAG</u>: GS Paper III- Environmental pollution and degradation, development of new technology, S&T developments and everyday applications & effects.

Mains Practice Question:

Q. To what extent can the adoption of hybrid vehicles be considered a more practical and less polluting mediumterm solution for India's decarbonization efforts, as suggested by a recent research. Discuss the challenges and advantages does this pose in comparison to the prevailing focus on electric vehicles in the country? (250 words)

WHY IN NEWS?

India's transition to electric vehicles (EVs) has been a key focus in the country's decarbonization efforts. However, recent research by Hongkong and Shanghai Banking Corporation Limited (HSBC) suggests that hybrid vehicles may be a more practical medium-term solution for India's current needs.

WHAT ARE HYBRID VEHICLES ?

- Hybrid vehicles are cars that combine at least one electric motor with a gasoline engine to move the car. The system recaptures energy via regenerative braking. The electric motor and the gasoline engine can work together or separately, depending on the driving conditions.
- They produce lower emissions than traditional vehicles, but not zero emissions.
- There are different types of hybrid vehicles:
 - Mild Hybrid: These vehicles have electric motors that are not powerful enough to propel the vehicle alone. They may provide some fuel economy benefits, but they cannot power
 - the vehicle using electricity alone.
 - Full Hybrid: Full hybrids are equipped with both a gasoline engine and a more powerful electric component. The electric motor in a full hybrid vehicle is capable of handling a significant portion of the workload.
 - Plug-In Hybrid (PHEV): These hybrids have a larger battery pack that can be charged by plugging the vehicle into an external power source. They can run on electricity alone for a certain range before the gasoline engine is needed.



HYBRID VEHICLES V/S ELECTRIC VEHICLES:

The differences between hybrid vehicles and electric vehicles are based on their power source, fuel dependency, range, emissions, charging, and maintenance requirements:

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ASPECT	HYBRID VEHICLES	ELECTRIC VEHICLES	
Power Source	Internal combustion engine and electric motor	Electric motor and battery	
Fuel Dependency	Requires gasoline	Relies entirely on electric power	
Range	Typically have a longer range than electric vehicles, as they can also run on gasoline	Limited by the battery capacity and need to be recharged	
Emissions	Produce lower emissions than traditional vehicles, but not zero emissions	Zero tailpipe emissions	
Charging	Do not need to be plugged in for charging	Require regular charging from an external power source	
Maintenance	Generally require more maintenance due to the dual power sources	Have fewer moving parts and require less maintenance	

ADVANTAGES OF USING ELECTRIC VEHICLES OVER HYBRID VEHICLES:

The advantages of electric vehicles over hybrid vehicles in India are as follows:

- ***** Zero Emissions:
 - EVs produce zero emissions, making them a cleaner and more environmentally-friendly option than T hybrid vehicles.
 - EVs help reduce the dependency on fossil fuels and diminish the impact of ozone-depleting substances, thereby supporting the objective of phasing out coal and transitioning to clean energy as recommended by the UNFCCC
 - In terms of international goals, the adoption of EVs in India contributes to the objectives to reach (net) zero GHGs as soon as possible, by reducing greenhouse gas emissions, promoting



sustainable transportation, and supporting the transition to clean energy.

Regenerative Braking:

- EVs use regenerative braking to recharge their batteries, which can help extend their range and reduce energy consumption.
- ** Quieter Operation:
 - EVs are quieter than hybrid vehicles because they don't have an internal combustion engine. So, reduction in noise pollution.

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CHALLENGES IN EV ADOPTION:

India faces several challenges in transitioning to electric vehicles (EVs). These challenges include:

- The global push for battery electric vehicles (BEVs) faces challenges such as the need for upfront subsidies, the lack of a robust charging network, and the source of electricity. The experience in markets like Norway, the US, and China shows that the electric push works effectively only if backed by state subsidies. Moreover, the lack of a well-developed charging infrastructure is a significant hurdle in the widespread adoption of EVs.
- The limited availability of public charging stations in India is a significant factor that affects the adoption of EVs. In contrast, the existing refueling infrastructure for traditional vehicles can also support the use of hybrid vehicles.
- Additionally, the overall cost of electric vehicles is a primary challenge, as they tend to have a higher initial cost compared to traditional vehicles and even hybrid vehicles.

ADVANTAGES OF HYBRID VEHICLES OVER EV's :

The advantages of hybrid vehicles over electric vehicles (EVs) in India, as suggested by HSBC Research, are as follows: • Lower Overall Carbon Emissions:

- HSBC Research's calculations show that overall carbon emissions are lower in hybrids compared to electric vehicles. Currently, hybrids are less polluting than both electric and traditional internal combustion engine vehicles for similarly proportioned vehicles.
- It further added that, it could take 7-10 years for the emissions from EVs and hybrid vehicles to converge. The analysis takes into account total (wheel-to-wheel) carbon emissions, which are currently lower for hybrids compared to EVs.
- Even by 2030, if India's share of non-fossil fuels in power generation reaches 40%, hybrids are expected to release 8% less emissions than EVs.
- Low Cost of Ownership and Maintenance:
 - The initial purchase price of hybrid vehicles is generally lower than that of EVs, which can make them a more accessible choice for Indian consumers.
 - They do not require frequent battery replacements.
- Practical Medium-Term Solution:
 - Hybrid vehicles are considered a more practical medium-term solution for India's decarbonization efforts. They are critical not just from a cost of ownership perspective but also for India's decarbonization drive.

CONCLUSION:

In conclusion, while the transition to electric vehicles is a crucial part of India's decarbonization efforts, the current data and analysis suggest that hybrid vehicles could be a more practical and less polluting medium-term solution for the country. As India continues to work towards eventual electrification, embracing hybrid vehicles over the next 7-10 years could be a more viable and sustainable approach.



RIVER-LINKING PROJECT

SOURCE: THE INDIAN EXPRESS

TAG: GS Paper III: Water Resources Issues Relating to Development.

Mains Practice Question:

Q. The interlinking of rivers can provide viable solutions to the multi-dimensional inter-related problems of droughts, floods, and interrupted navigation. Critically examine. -2020 (150 words)

WHY IN NEWS?

The signing of the Memorandum of Understanding (MoU) between Rajasthan, Madhya Pradesh, and the Union Ministry of Jal Shakti for the implementation of the Modified Parbati-Kalisindh-Chambal-ERCP (Modified PKC-ERCP) Link Project is noteworthy.

INTERLINKING OF RIVERS – BACKGROUND

- In August 1980, the Ministry of Irrigation (now Water Resources) formulated a National Perspective Plan (NPP) for Water Resources Development, envisioning inter-basin water transfer.
- The National Water Development Agency (NWDA) was established in July 1982 to study the feasibility of inter-basin water transfer links.
- The National Water Policy (NWP) was formulated in 1987 to coordinate water resource development and regulation.
- In 2002, President Abdul Kalam suggested the river linking project in a speech to address India's water issues. The 2002 revised NWP suggested using non-conventional methods like inter-basin water transfers to enhance utilizable water resources.
- Despite initial attention, the proposals were deemed not technoeconomically feasible and were not pursued by the government. However, ongoing interest prompted a closer examination of inter-basin water transfer proposals.
- The NWDA's functions were modified in 2011 to include preparing Detailed Project Reports (DPRs) for intrastate links. It conducted water balance studies and identified 30 links for Feasibility Reports (FRs), with 16 under the Peninsular Component and 14 under the Himalayan Component.

INTER LINK RIVER PROJECT (ILR)

- The Inter Link River Project (ILR) proposed by the National Water Development Agency (NWDA) aims to address water deficiency in western and southern India while mitigating floods in the eastern parts, particularly the Ganga basin.
- The project is considered an effective solution to improve irrigation, agricultural production, and minimize natural disasters like floods and droughts, according to the NWDA.
- The project is designed to transfer water from surplus river basins to water-scarce regions, reducing regional imbalances and benefiting farmers in monsoon deficit areas.
- The ILR project, also known as the national river linking project, is one of the largest civil engineering projects jointly proposed by the Supreme Court and the President of India.
- The project involves connecting 37 Himalayan and Peninsular rivers through 30 links and approximately 3000 storages to transfer water.
- The primary objective is to fulfill the idea of interlinking water surplus Himalayan Rivers with water-scarce western and peninsular regions of India.



- Detailed planning for the mega-project is being carried out by the NWDA, which has been conducting studies for water resources development based on the National Perspective Plan.
- The project is divided into two components:
 - The Himalayan Component, comprising 14 canal links, and the Peninsular Component, consisting of 16 links.
- The ILR project is expected to contribute to a consistent and year-round water supply to fields, villages, towns, and industries without causing harm to the environment.
- Soal :
 - To address water scarcity, enhance agricultural productivity, and reduce the impact of natural disasters through the efficient management of water resources.

MAJOR PROJECTS				
S.No	Name	Rivers	States concerned	
PENI	NSULAR COMPONENT			
1(a)	Mahanadi (Manibhadra)– Godavari (Dowlaiswaram) link	Mahanadiand Godavari	Jharkhand, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh, Odisha, Karnataka and Maharashtra	
1(b)	Mahanadi (Bermul)– Godavari (Dowlaiswaram) link	Mahanadi and Godavari	Jharkhand, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh, Odisha, Karnataka and Maharashtra	
2	Godavari (Inchampall)- Krishna(Pulichintala) link	Godavariand Krishna	Odisha, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh, Maharashtra and Karnataka	
3	Godavari (Inchampalli)- Krishna (Nagarjunasagar) link	Godavariand Krishna	Odisha, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh, Maharashtra and Karnataka	
4	Godavari (Polavaram) - Krishna(Vijayawada) link	Godavari and Krishna	Odisha, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh, Maharashtra and Karnataka	
5	Krishna (Almatti) —Pennar link	Krishna and Pennar	Telangana, Andhra Pradesh, Maharashtra and Karnataka	
6	Krishna (Srisailam)–Pennar link	Krishna and Pennar	Telangana, Andhra Pradesh, Maharashtra and Karnataka	
7	Krishna(Nagarjunasagar)- Pennar (Somasila) link	Krishna and Pennar	Telangana, Andhra Pradesh, Maharashtra and Karnataka	
8				



	Pennar (Somasila)–	Pennar and	Andhra Pradesh Karnataka Tamil		
	Cauvery(Grand Anicut) link	Cauvery	Nadu, Kerala and Puducherry		
9	Cauvery (Kattalai)–Vaigai– Gundar link	Cauvery, Vaigai and Gundar	Karnataka, Tamil Nadu, Kerala and Puducherry		
10	Ken-Betwa link	Ken and Betwa	Uttar Pradesh and Madhya Pradesh		
11 (i)	Parbati – Kalisindh –Chambal link	Parbati, Kalisindhand Chambal	Madhya Pradesh,Uttar Pradesh and Rajasthan requested to be Consulted during consensus building)		
(ii)	Parbati-Kuno-Sindh link	Parbati, Kuno and Sindh	Madhya Pradesh and Rajasthan		
12	Par-Tapi-Narmada link	Par, Tapi and Narmada	Maharashtra and Gujarat		
13	Damanganga – Pinjal link	Damanganga and Pinjal	Maharashtra and Gujarat		
14	Bedti-Varada link	Bedti and Varada	Maharashtra, Andhra Pradesh and Karnataka		
15	Netravati – Hemavati link	Netravati and Hemavati	Karnataka, Tamil Nadu and Kerala		
16	Pamba - Achankovil –Vaippar link	Pamba,Achankovil and Vaippar	Kerala and Tamil Nadu		
Hima	alavan Component				

1.	Manas-Sankosh-Tista- Ganga(M-S-T-G)link	Manas,Sankosh, Tista and Ganga	BHUTAN&INDIA (Assam,West Bengal and Bihar)
2.	Kosi-Ghaghra link	Kosi and Ghaghra	NEPAL&INDIA (Bihar and Uttar Pradesh)
3.	Gandak-Ganga link	Gandak and Ganga	NEPAL&INDIA (Bihar and Uttar Pradesh)
4.	Ghaghra-Yamuna link	Ghaghra and Yamuna	NEPAL&INDIA (Bihar and Uttar Pradesh)
5.	Sarda-Yamuna link	Sarda and Yamuna	NEPAL&INDIA (Bihar, Uttar Pradesh, Uttarakhand, Haryana And Rajasthan)
6.	Yamuna-Rajasthan link	Yamuna and Sukri	Gujarat, Rajasthan, Haryana and Uttar Pradesh
7.	Rajasthan-Sabarmati link	Sabarmati	Gujarat, Rajasthan, Haryana and Uttar Pradesh

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8.	Chunar-Sone Barrage link	Ganga and Sone	Bihar and Uttar Pradesh
9.	Sone Dam – Southern Tributaries of Ganga link	Sone and Badua	Bihar and Jharkhand
10.	Ganga (Farakka)- Damodar- Subernarekha link	Ganga, Damodar and Subernarekha	West Bengal,Odisha and Jharkhand
11.	Subernarekha- Mahanadi link	Subernarekha and Mahanadi	West Bengal and Odisha
12.	Kosi-Mechi Link	Kosi and Mechi	NEPAL & INDIA (Bihar and West Bengal)
13.	Ganga (Farakka)- Sunderbans link	Ganga and Ichhamati	West Bengal
14.	Jogighopa-Tista- Farakkalink(Alternative to M-S-T-G)	Manas,Tista and Ganga	Assam, Bihar and West Bengal

BENEFITS OF INTER LINKING :

- Major benefits of river- inter linking project are
 - Create the potential to increase agricultural production by an additional 100 per cent over the next five years.
 - Unify the country by involving every Panchayat as a shareholder and implement agency.
 - Provide for enhancing the security of the country by an additional waterline of defence.
 - Employ the 10 lakh people for the next 10 years.
 - Eradicate the flooding problems which recur in the north-east and the north every year.
 - Solve the water crisis by providing alternative, perennial water resources.
 - The large canals linking the rivers are expected to facilitate inland navigation too.
 - Increasing food production from about 200m tonnes a year to 500m tonnes.
 - Boost the annual average income of farmers.
 - To solve the problem of the water crisis in cosmopolitan cities of India and Inter-state water disputes.
 - The rural areas of the country will get an all-out development on modern lines.
 - It will boost the rural economy and the lifestyle of the Indian village.
 - Due to the interlinking of rivers, the overall economic activities of the country will be enhanced resulting in an annual increase of GDP. Employment opportunities also increase.
 - Not only the environment protection and pollution control shall be achieved but this creation of "National Rivers Water Grid" shall also provide extra security to the country as a whole.
 - Generate employment in agriculture, power, transport & construction sector.

CHALLENGES OF INTER LINKING OF RIVERS:

- Political Challenges:
 - Water is the sign of wealth for a state as its basic need of every kind thus several states do not want to go with national river linking project in fear of losing surplus of water to the other states. A less political desire will make this project again a lip service so for this issue there must be an enthusiasm towards the project only after this can be a dream project comes true.



Economic Challenges:

• National river linking project is a dream project for the Indian government has a vast impact on the national economy as the programming cost of this project is very high nearly \$87 billion. It seems rather difficult to arrange this vast money from the market itself.

Environmental Challenges: **

The national river linking project form very start has been a matter of criticism to the environmentalist. They feel the project as negligent, incautious and impertinent. According to the major group of environmentalist that project will change the geography of the whole country recklessly and will invite several challenges and the worst effect of nature.

International Challenges: **

Himalayan rivers like Ganga, the Brahmaputra which flows in either multination boundaries or combination boundaries. India's neighbours especially Bangladesh will resist this project because the flow of Ganga in Bangladesh will be reduced which will create a problem in implementing NRLP.

CONCLUSION:

With the rapid increase of demand for water and new technological advancements, the ILR project seems to act as a boon for the nation. It will not only meet the water requirements of millions of people by providing water but would also reduce the problems people face in water-scarce regions. The water supply would be from regions having surplus water in the rivers to regions where water is scarce, thus, equally and adequately fulfilling the needs of people across the nation.





PROS AND CONS OF SIMULTANEOUS ELECTIONS

SOURCE: THE HINDU

TAG: GS Paper II- Federalism, Elections, Government Policies and Interventions

Mains Practice Question:

Q. Discuss the concept of simultaneous elections in India, while examining the potential impact on federalism, democratic expression, and local governance. (150 words)

WHY IN NEWS?

A High-Level Committee (HLC) under Ramnath Kovind was set up in September 2023 to investigate the feasibility of simultaneous elections for Lok Sabha, State Legislative Assemblies, and local bodies. Seeking responses from stakeholders, including political parties and the Law Commission, the HLC aimed to address the challenges and advantages of synchronized polls.

HISTORICAL CONTEXT:

- During the initial four general election cycles (1952, 1957, 1962, and 1967), Lok Sabha and State legislative assembly elections were held simultaneously.
- Premature dissolutions led to elections being held at different times. In 2019, only four states had assembly elections along with the Lok Sabha.

WHAT IS SIMULTANEOUS ELECTION?

- Simultaneous elections means conducting polls for both Lok Sabha and State Legislative Assemblies concurrently, occurring once every five years.
- Currently, there is a lack of synchronization between Lok Sabha and State Legislative Assembly elections.
- While occasional instances, such as the 2014 elections in Andhra Pradesh, Odisha, and Sikkim, witness alignment of State Assembly elections with the Lok Sabha polls, it is not a consistent practice.

CASE FOR SIMULTANEOUS ELECTIONS:

Cost Reduction:

Estimated cost for Lok Sabha elections is around ₹4,000 crores. Simultaneous elections would reduce overall costs.

Efficiency during MCC:

 Simultaneous polls can mitigate disruptions caused by the Model Code of Conduct (MCC), enhancing government service delivery.

Political Decision-making:

 Political parties, to woo voters, often make decisions that may not align with public interest. Simultaneous elections reduce such populist tendencies.

National Perspective:

 Promotes a national perspective, strengthening national parties and reducing narrow vote bank politics.

Federalism Strengthened:

 Simultaneous elections, occurring once in five years, make it challenging to dismiss elected state governments easily, reinforcing federalism.



India's democratic behemoth



ite of Civil Services

Governance and Administrative Convenience:

- Frequent elections hinder policy-making and governance, with parties in "permanent campaign" mode.
- Administrative machinery slows down during election periods.

Social Cohesion:

 High-stakes yearly elections lead to polarizing campaigns, deepening divisions. Simultaneous polls might reduce polarization.

CHALLENGES:

- Political Expenditure:
 - While Election Commission costs may decrease, there's no guarantee that political parties will reduce their expenditures.

Impact on Federalism:

 Simultaneous elections may diminish the importance of state elections, conflicting with the principles of federalism.

Constitutional Contradictions:

 The Constitution's requirement for the existence of Lok Sabha and State legislatures for five years contradicts the idea of simultaneous elections.

• No Confidence Motion:

 The concept of simultaneous elections challenges the traditional role of 'no confidence motion,' affecting legislative control over the executive.

Democratic Expression:

 Fixed tenure limits the public's right to express confidence or displeasure through more frequent elections.

Neglect of Local Issues:

Simultaneous elections may sideline local and state-specific concerns, overlooking the country's diversity.

✤ Logistical Challenges:

 Holding simultaneous elections once in five years may pose logistical challenges, especially regarding the deployment of security forces.

Federal and Democratic Concerns:

- Simultaneous polls might overshadow regional issues with national ones, favoring national parties.
- Elections act as an effective feedback mechanism for governments, and a fixed tenure may affect this process.

Constitutional Amendments:

 Requires amendments to Articles 83, 85, 172, and 174 dealing with the duration and dissolution of Lok Sabha and legislative assemblies.

RECOMMENDATIONS OF THE HIGH-LEVEL COMMITTEE:

Clubbing Elections:

- Lok Sabha and half of the State assemblies in one cycle, the rest after two and a half years.
- Curtailing or extending tenures will require constitutional amendments.
- No-Confidence Motion:
 - Any no-confidence motion must be accompanied by a confidence motion for forming an alternate government.
 - Dissolution should lead to the remainder period of the original house.

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Bye-Elections:

• Bye-elections due to death, resignation, or disqualification can be clubbed and held once a year.

CONCLUSION:

The debate over simultaneous elections involves weighing the advantages against potential drawbacks, emphasizing the need for a balanced and well-thought-out approach to implementation.



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PRELIMS POINTERS:

30th & 31st January, 2024

ТОРІС	DESCRIPTION			
INS SUMITRA	WHY IN NEWS?			
	In a remarkable display of maritime prowess, Indian Naval Ship (INS) Sumitra			
	has garnered attention for successfully executing its second anti-piracy			
	operation off the East Coast of Somalia.			
	ABOUT INS SUMITRA			
	* Background:			
	 INS Sumitra is an indigenous Offshore Patrol Vessel of the Indian Navy. 			
	 Specifically deployed for Anti-Piracy and Maritime Security Operations 			
	in the East of Somalia and the Gulf of Aden.			
	Previous Operation:			
	• Earlier, on January 28,			
	2024, INS Sumitra			
	attempt on the Iranian			
	flagged Eishing Vassal			
	(EV) Iman rescuing 17			
	Iranian nationals who			
	were held hostage by			
	pirates.			
	IRANIAN FV FROM SOMALI PIRATES			
	DETAILS OF RECENT OPERATION:			
	* Targeted Rescue:			
	The recent operation focused on the Iranian Fishing Vessel Al Naeemi,			
	held by Somali pirates with 19 Pakistani nationals as hostages.			
LITHIUM-ION	WHY IN NEWS?			
BATTERY	India experienced a 50% growth in Electric Vehicle (EV) sales in 2023, signaling			
	potential for a \$100 billion market by 2030, emphasizing the pivotal role of			
	lithium-ion batteries constituting 40% of the vehicle cost.			
	ABOUT LITHIUM-ION BATTERY:			
	Standard in current EVs, with POROUS SEPARATOR			
	lithium atoms powering the			
	vehicle's motor.			
	* Lithium's lightweight nature ANODE (-)			
	include slow charging and			
	environmental concerns.			
	Structure: Anode, cathode,			
	separator, electrolyte, and CATHODE (+) LITHIUM-			
	Current collectors. OXIDE ©2019 Let's Talk Science			
	Materials: Graphite (anode),			
	various cathode materials.			
	ΑΡΡΙ ΙCATIONS·			
	 Portable electronics, electric vehicles, aerospace. 			
	,			
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	Promising for clean energy in battery-powered cars.		
	ADVANTAGES.		
	 Angle energy density, low sen-discharge. No memory effect environmentally friendly. 		
	 Dominant in nortable electronic devices. 		
	 Cadmium-free, easier to dispose of. 		
	 Holds promise for clean energy applications. 		
	DISADAVANTAGES:		
	Prone to overheating and damage at high voltages.		
	 Requires safety mechanisms to control voltage and internal pressures. 		
	 Subject to aging, leading to capacity loss. 		
	 Frequent failures reported after a certain number of years. Cost around 40% bisher than Ni Cd. 		
	Cost around 40% higher than Ni-Cd.		
	APPROACHES TO BATTERY IMPROVEMENT:		
	✤ Electrode Tweaks:		
	 Modifying electrode materials (NMC, LFP) for trade-offs in energy 		
	density, lifespan, and charging times.		
	Sensing and Control:		
	 Implementing sensors and control systems for safety, extended lifespan, 		
	and faster charging.		
	Paradigm Shift - Solid-State Lithium Battery (SSB):		
	 Addresses flammability with a solid electrolyte, reducing weight and 		
	improving charging speed.		
RHITARKANIKA	WHY IN NEWS?		
	Bhitarkanika National Park in Odisha, a biodiversity hotspot and tourist		
	attraction, will soon be linked by the proposed Jajpur Road-Dhamra railway line.		
	ΒΗΙΤΑΡΚΑΝΙΚΑ ΝΑΤΙΩΝΑΙ ΡΑΡΚ·		
	It became a Ramsar site in 2002		
	 Situated in Kendrapara, Odisha 		
	It is situated on a delta formed by the Brahmani, Baitarna and Dhamra Rivers.		
	It the second-largest mangrove ecosystem in India.		
	Unique ecosystem Bhitarkanika Mangroves		
	enriched with salts from		
	the Bay of Bengal.		
	Bhitarkanika is nome to aight rare varieties of		
	Kingfisher hirds		
	Rentall Rest		
	FLORA:		
	Various species of Various species of		
	mangroves.		
	 Thespia, sundari and Thespia, sundari and 		
	indigo bush.		
	FALINA		
	It serves as a breeding ground for Salt Water Crocodiles and hosts the largest		

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TATHASTU Institute of Civil Services				
	Olive Ridley Sea Turtles colony at Gahirmatha Beach.			
HUMBOLDT'S ENIGMA	 WHY IN NEWS? * Humboldt's enigma, examining the biodiversity-mountain relationship, currently relevant, notably in the context of India's Western Ghats and Sri Land biodiversity hotspot. 			
	 BACKGROUND: The Earth's tropical areas receive more solar energy due to the planet's angle of inclination, resulting in greater primary productivity in the tropics. This enhanced productivity fosters biodiversity by creating more ecological niches, leading to complex ecosystems and greater biological diversity. 			
	<section-header> HUMBOLDT'S ENIGMA: Aumboldt's enigma challenges the notion that biodiversity is solely concentrated in the Earth's tropicar egions. It asserts that many highly biodiverse areas exist outside the tropics, particularly in mountainous regions. MOUNTAIN EXCEPTION: While biodiversity typically decreases away from the tropics, mountains represent a notable exception to this pattern. Mountains, like the eastern Himalaya, have been identified as highly biodiverse areas, presenting a paradox that defies traditional expectations. INDIAN CONTEXT - TROPICAL VS. MOUNTAINOUS BIODIVERSITY: In India, Humboldt's enigma is exemplified by comparing biodiversity in tropical </section-header>			
	 areas (south of the Tropic of Cancer, including the Western Ghats and Sri Lanka biodiversity hotspot) with the eastern Himalaya. Despite the Western Ghats being a renowned biodiversity hotspot, the eastern Himalaya surpasses it in diversity, especially in perching and river birds. 			
NON-UREA FERTILIZERS	 WHY IN NEWS? Govt brings non urea fertilizers under price control, fixed profit margins. ABOUT FERTILIZERS: A fertiliser is a natural or artificial substance containing chemical elements (such as Nitrogen (N), Phosphorus (P) and Potassium (K)) that improve growth and productiveness of plants. There are 3 basic fertilisers in India - Urea, DAP and Muriate of Potash (MOP). Crops are mainly rain-fed and cultivated on a single piece of land over time, decreasing soil fertility in many regions. Thereby, increasing quantities of nitrogen fertilizers have been used in the country. 			
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	ABOUT FERTILIZER SUBSIDY:
	Fertilizer subsidies involve farmers purchasing fertilizers below market rates,
	set by the government.
	The disparity between MRP and actual cost is covered by the government as a subsidy.
	Non-urea fertilizers have market-driven MRPs set by companies, but the
	government provides a fixed per-tonne subsidy to maintain reasonable prices.
	GOVERNMENT SCHEMES/INITIATIVES:
	 NUTRIENT BASED SUBSIDI SCHEIVIE, 2010: Fived subsidurates par kilogram are appeulosed enoughly for Nitrogen
	(N) Phoenbate (P) Potach (K) and Sulphur (S) under this scheme
	(N), Phosphate (P), Potasii (N), and Sulphul (S) under this scheme.
	agricultural productivity supporting indigenous fertilizer industry
	growth and reducing subsidy burdens
	 Irea is excluded leading to a focus on lirea due to delayed subsidy
	navments, disrupting the ideal NPK ratio
	 NEW INVESTMENT POLICY 2012:
	 Introduced in January
	2013, this policy aims
	to encourage fresh
	investments, foster
	self-reliance, and
	reduce urea import
	dependency.
	NEEM-COATED UREA 2015:
	 Neem-coated urea,
	using neem tree seed
	oil, is mandated for domestic producers.
	Benefits include slowing nitrification, increasing yield, and reducing
	 Released in May 2015 to boost indigenous urea production promote
	energy efficiency and alleviate the subsidy burden on the Central
	government
	♦ GAS POOLING IN FERTILIZERS:
	 Initiated in 2015, the Gas Pooling mechanism aims to provide uniform
	gas prices to all 30 urea-producing units (27 gas-based, 3 Naphtha-
	based) to ensure consistent urea production across the country.
PHILIPPINES,	WHY IN NEWS?
VIETNAM SIGN	In a significant development, the Philippines and Vietnam have signed
DEAL ON SOUTH	agreements aimed at preventing incidents in the South China Sea, signalling a
	deepening alliance between the two nations.
	ABOUT THE DEAL
	 Preventing Incidents:
	Agreements aim to prevent South China Sea incidents, managing disputes and
	enhancing coordination to avoid conflicts.



	 Coast Guard Cooperation:
	Focus on broadening cooperation
	between Philippines and Vietnam
	coast guards to address maritime
	challenges and maintain stability.
	Trade and Investment Boost:
	Agreement to boost trade and
	investment signifies a broader
	partnership beyond maritime
	security; includes a key rice deal.
	Military Collaboration:
	Discussions involve enhancing
	information-sharing and training
	exchanges between Vietnamese and
	Philippine militaries to strengthen strategic partnership.
	SOUTH CHINA SEA OVERVIEW:
	✤ Geographical Boundaries:
	 Western Pacific Ocean arm bordered by Southeast Asian mainland,
	Taiwan Strait to northeast, Taiwan, Philippines to east, Borneo, Malay
	Peninsula to southeast and south, Asian mainland to west and north.
	✤ Basin and Features:
	Rhombus-shaped China Sea Basin with max depth of 16,457 ft (5,016
	m).
	Reef-studded shoals include Reed, Tizard banks, Nanshan Island,
	Paracel Islands, Macclesfield banks.
	 Continental Shelf:
	 Palawan Trough, broad NW shelf with Gulf of Tonkin, Taiwan Strait,
	Hainan, Taiwan.
	* Sunda Shelf:
	 Connects southward, extensive network of submerged river valleys.
	 Connecting Channels:
	Taiwan Strait (north), Luzon Strait (east), Strait of Malacca (west).
TEST TURE	WHY IN NEWS?
	The groundbreaking achievement of the first-ever rhino pregnancy through in
RHINUS	vitro fertilization (IVF) by an international group of scientists, part of the
	BioRescue project , has brought the ambitious initiative to rebuild the nearly
	extinct northern white rhino into the spotlight.
	ABOUT TEST TUBE RHINO
	 Last Male's Death (2018):
	 Last male northern white rhino's death in 2018 marked the species'
	inevitable extinction.
	✤ IVF Project (2015):
	 In 2015, BioRescue project launched for northern white rhino
	population rebuilding through IVF.
	GROOND FLOOR, BADA BAZAR ROAD, OLD RAJINDER NAGAR, NEW DELTI -110000-

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*	First	Rhino	Pregnancy	/ (IVF):
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- Recent success in transferring lab-made rhino embryo into southern white rhino, achieving first-
- ever rhino pregnancy through IVF.
- Challenges in Rebuilding:
 - Rebuilding faces challenges like a limited gene pool, genetic viability issues
 - The need for IVF calves to learn behaviours from last surviving northern white females.
- Genetic Viability Issue:
 - Limited genetic diversity poses a challenge; stem cell techniques explored for viability.

Time Constraints:

Urgency for IVF calves to learn skills from last two surviving **northern white females, Najin (35) and Fatu (24).**

Poaching Threat:

Rhino populations, including northern whites, face threats from organized hunting, highlighting the urgency for conservation efforts.

OTHER RHINO SPECIES:



53/1, UPPER GROUND FLOOR, BADA BAZAR ROAD, OLD RAJINDER NAGAR, NEW DELHI -110060

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Celebrating the FIVE species of rhinoceros Sumatran nhino Greater one-horned nhino

WORLD RHINO DAY

22 September

worldrhinoday.org

White nhino

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	Rhino	Endangered	and subtropical forests			
INDIA NOMINATES 12 FORTS OF MARATHAS FOR UNESCO WORLD HERITAGE LIST	WHY IN NEW India UNE ABOUT THE The non- regions These formilitary Maratha ABOUT MARE LANDSCAPE: The Land betwing 19th \$ The Land betwing 19th \$ The Land betwing 19th \$ The Second Secon	VS? a has nominate SCO World He SCO World He NOMINATION nination comp in India. orts showcase prowess of the a rulers. ATHA MILITAL "Maratha Millit scapes" develor veen the 17th a centuries. oresents aordinary fication envision to centuries. oresents aordinary fication envision to forts are strates so diverse geographic region to the Indiar forts vary in hi logical feature inception of the logy dates bac- ng the reign of D) and continue s until the Pesh	ed the "Marath ritage List for 2 : rises a network the ne RY tary oped and oned ers. ategically distril graphical and ons, including t n ranges, Konka eau, and Easte n Peninsula. erarchies, scale es. ne Maratha milii k to the 17th ce shivaji Mahara ed through suba nwa rule till 18:	a Military La 2024-25. k of 12 forts where buted he an ern es, and itary entury aj (from sequent 18 CE.	andscapes" strategicall strategicall List: Salher Shivne Ship Shivne Ship Ship Ship Ship Ship Ship Ship Ship	ri ad eri l gad hadurg la urg uturg (First 11 in hashtra) e (in Tamil Nadu)
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 Arunachal Pradesh: 36 Sikkim: 21 Jammu and Kashmir: 9 SNOW- LEOPARD Khelo India Winter Games 2024 mascot- Snow Leopard 'Sheen-e She' (Shan) Conservation Status: Snow leopards are classified as 'vulnerable' by the International Union for the Conservation of Nature(IUCN) Threats: It faces threats from free-ranging dogs, human-wildlife conflicts, and poaching. SNOW LEOPARD POPULATION ASSESSMENT IN INDIA (SPAI) Snow Leopard Population Assessment in India (SPAI): The SPAI initiative began in 2019 and involves the World Wide Fund for Nature-India and the Nature Conservation Foundation, Mysuru, along with the Wildlife Institute of India. The Dehradun-based Wildlife Institute of India, an autonomous body of the Union Environment Ministry, used software and statistical methods for estimation. The current estimate places the number of India na snow leopards between 10% and 15% of the global population. The exercise involved setting up cameras or camera traps in 1,971 locations. Teams surveyed 13,450 km of trails, recording signs of snow leopards such as scat, hair, and other body markers. WHY IN NEWS? The IME now expects the world economy to grow by 3,1% this year on
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projected to ease from 6.8% in 2023 to 5.8% in 2024 and jurther to 4.4% in
2025.
ABOUT IMF
The IMF consists of 190 member
nations, each with representation
on the organization's executive
board corresponding to its financial
significance.
 This ensures that the most
influential countries in the global
economy hold the highest voting
power.
OBJECTIVES OF THE IMF
 Enhance and foster worldwide monetary cooperation.
Ensure financial stability by mitigating fluctuations in exchange rates.



- Facilitate equitable international trade.
- Promote increased employment opportunities through economic support and sustainable growth.
- Diminish global poverty levels.

FUNCTIONS OF THE IMF

- Regulatory Functions:
 - Operates as a regulatory body, adhering to the guidelines outlined in the -Articles of Agreement.
 - Administers a code of conduct for exchange rate policies and restrictions on payments related to current account transactions.
- Financial Functions:
 - Offers financial support and allocates resources to member countries to address short-term and medium-term imbalances in their Balance of Payments (BOP).
- Consultative Functions:
 - Serves as a hub for international cooperation among member countries. -
 - Acts as a valuable source of advice and technical assistance for its members.
- ** India & IMF
 - India is a founder member of the IMF. -
 - India's Union Finance Minister is the Ex Officio Governor on the IMF's **Board of Governors**.
 - India is the eighth-largest quota holder in the organization.

Vo

- The quota system determines a member country's financial T commitment and voting power within the IMF.
- India has transitioned from being a borrower to becoming a contributor to the IMF.