



Missile destroyer INS Mormugao commissioned into Indian Navy

Northeast is not last part of country but gateway for trade and ties: Modi

India pushes for new biodiversity fund

Quiz of the Day

Missile destroyer INS Mormugao commissioned into Indian Navy

The warship with full-load displacement of 7,400 tonnes is named after the historic port city of Mormugao on the west coast; it is propelled by four powerful gas turbines, has enhanced stealth features and is equipped with BrahMos cruise missiles

The Hindu Bureau NEW DELHI

n this era of globalisation, almost all nations are dependent on each other in the field of trade and hence rulebased freedom of navigation and security of sea lanes have become more important than ever for stability and economic progress of the world, Deience Minister Rajnath Singh said on Sunday. He was speaking in Mumbai at the commissioning ceremony of INS Mormunao, the second of four stealth guided missile destroyers built under being Project-USB.

Named after the historic out the Ship's Commission-fence production capabiliwest coast, Mormugao, the the eve of the 60th anniversary of the liberation of Goa from Portuguese rule.

"Economic, political and trade relations between countries are constantly evolving. The CO-VID-19 pandemic, situation in the Middle East, Afghanistan and Ukraine - It directly or indirectly impacts every country in one way or another," Mr. Singh said.

During the ceremony,



Shot in the arm: Defonce Minister Rajnath Singh at the INS Mormugao commissioning ceremony at Naval Dockyard In Mumbal, EMMANUAL YOGINI

port city of Goa on the Ing Warrant. Subsequently, the Naval Ensign was hotstship was commissioned on ed onboard for the first time and the Commission-Ing Pennant broken (unfurled) on the main mast to the National Anthem played by the Naval Band, a Defence Ministry statement said.

Indigenous content

"With over 75% indigenous content, # [INS Mormagao] is a testimony to india's excellence in design and development of warships and the Commanding Officer, a shining example of our Captain Kapil Bhatia, read growing indigenous de-

ties. The warship will meet the present and future needs of our country and of our friendly countries," Mr. Strigh said.

Stating that the country's growing economy is directly connected to increasing trade, most of which is through sea routes, Mr. Singh said india's interests are directly linked to the Indian Ocean. India being an important country in this region, the role of the Indian Navy becomes more important in tis security, he added.

ship has a full-load displacement of 7,400 tonnes. "The overall indigenous content of the project is approximately 75%," the Navy said.

Construction contract The contract for construction of four ships under Project-15B was signed in January 2011 at a project cost of about 729,643.74 crore. The design of the ships has been developed in-house by the Directorate of Naval Design and constructed by Mazagon Dock Shtpbuilders Ltd., Mum-The 163-metre-long war- bai. They are a follow-on of SONAR, the Navy said.

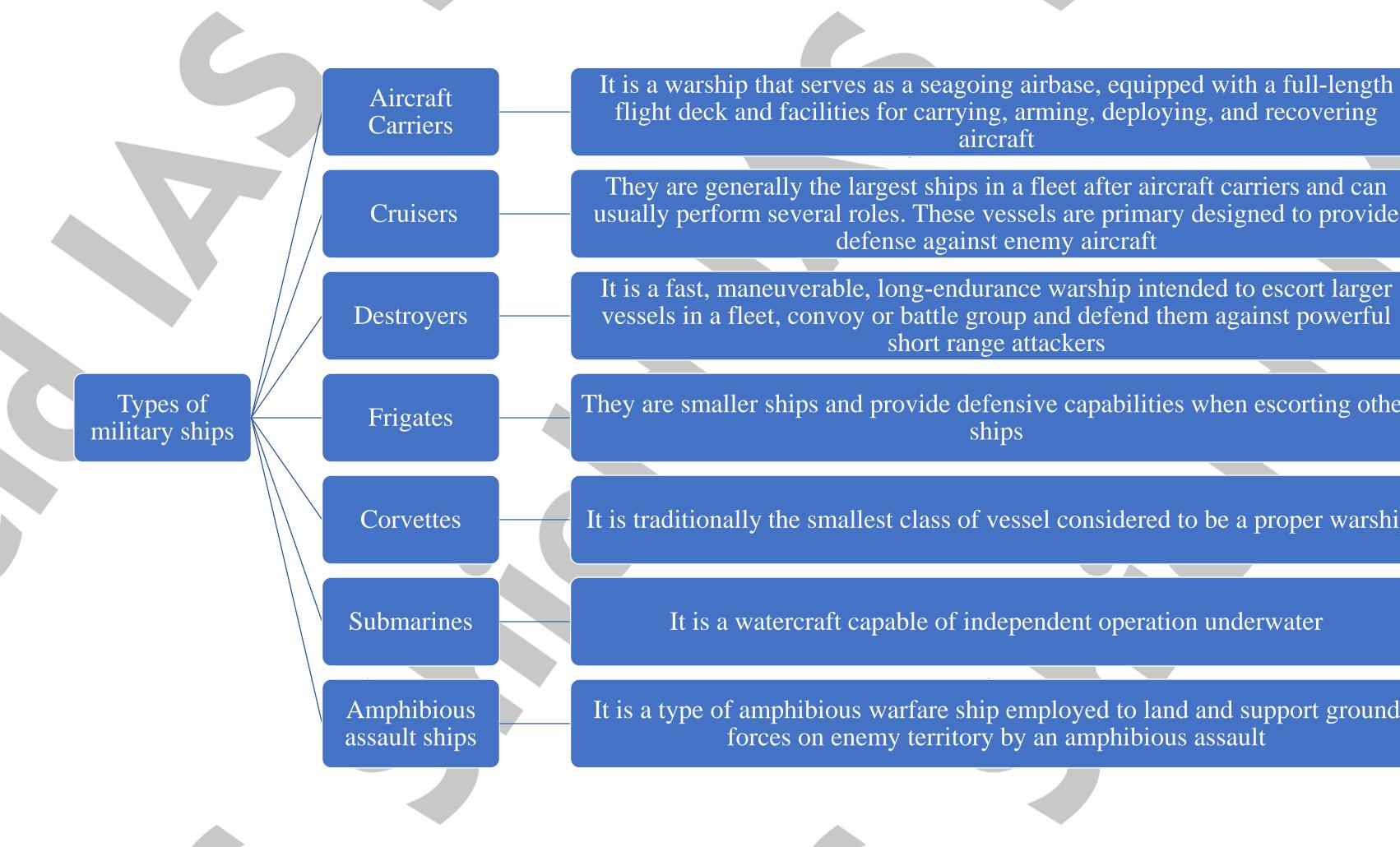
the Kolkata class destroyers and named after major cities from all four corners of the country -Visakhapatnam, Mormugao, Imphal and Surat. INS Visakhapatham, was commissioned in 2021. INS Imphal and INS Surat are at various stages of outfitting and trtak.

INS Mormugao is propelled by four powerful gas turbines capable of achieving speeds in excess of 30 knots, the Navy said, stating that II has enhanced stealth features resulting in a reduced radar cross section.

These ships are equipped with BrahMos supersonic cruise missiles and long-range surface-toair missiles. Some of the major indigenised equipment and systems aboard INS Mormagao include surface-to-surface and surface-to-air missiles, torpedo tubes and launchers, anti-submarine rocket launchers and super rapid gun mount, besides combat management system, integrated platform management system, automated power management sysfoldable hangar tem, doors, helo-traversing system, close-in weapon system, and bow-mounted 01



Missile destroyer INS Mormugao commissioned into Indian Navy



flight deck and facilities for carrying, arming, deploying, and recovering aircraft

usually perform several roles. These vessels are primary designed to provide defense against enemy aircraft

vessels in a fleet, convoy or battle group and defend them against powerful short range attackers

They are smaller ships and provide defensive capabilities when escorting other ships

It is traditionally the smallest class of vessel considered to be a proper warship

It is a watercraft capable of independent operation underwater

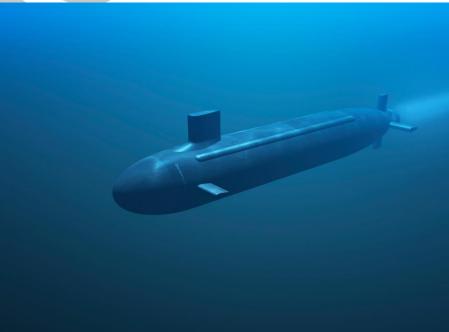
It is a type of amphibious warfare ship employed to land and support ground forces on enemy territory by an amphibious assault



Aircraft Carriers

Cruisers





Submarines







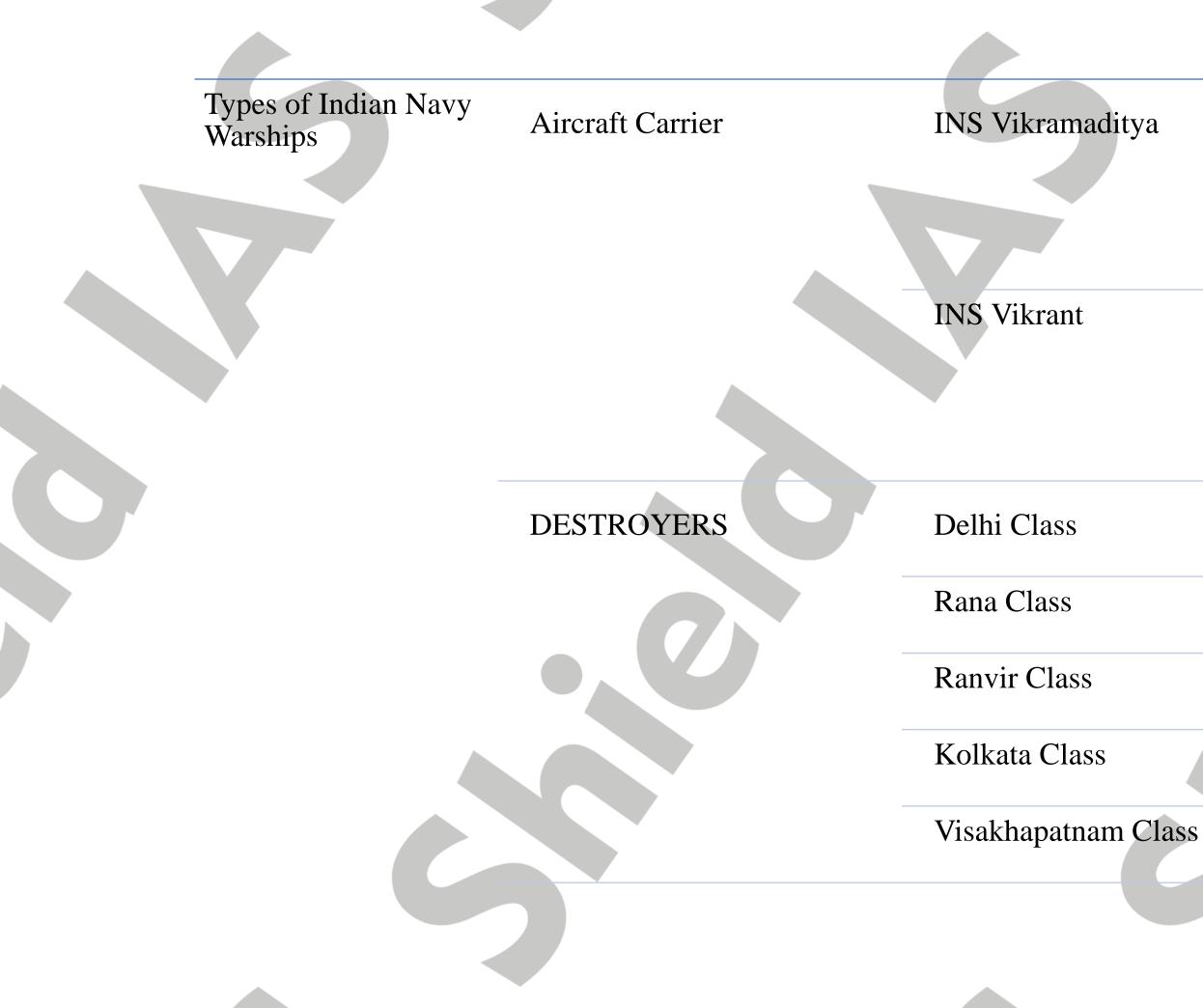
Destroyers

Frigates



Amphibious assault ships





guided-missile destroyers

guided-missile destroyers and AKA as Kashin-II class

indigenously developed missile destroyers

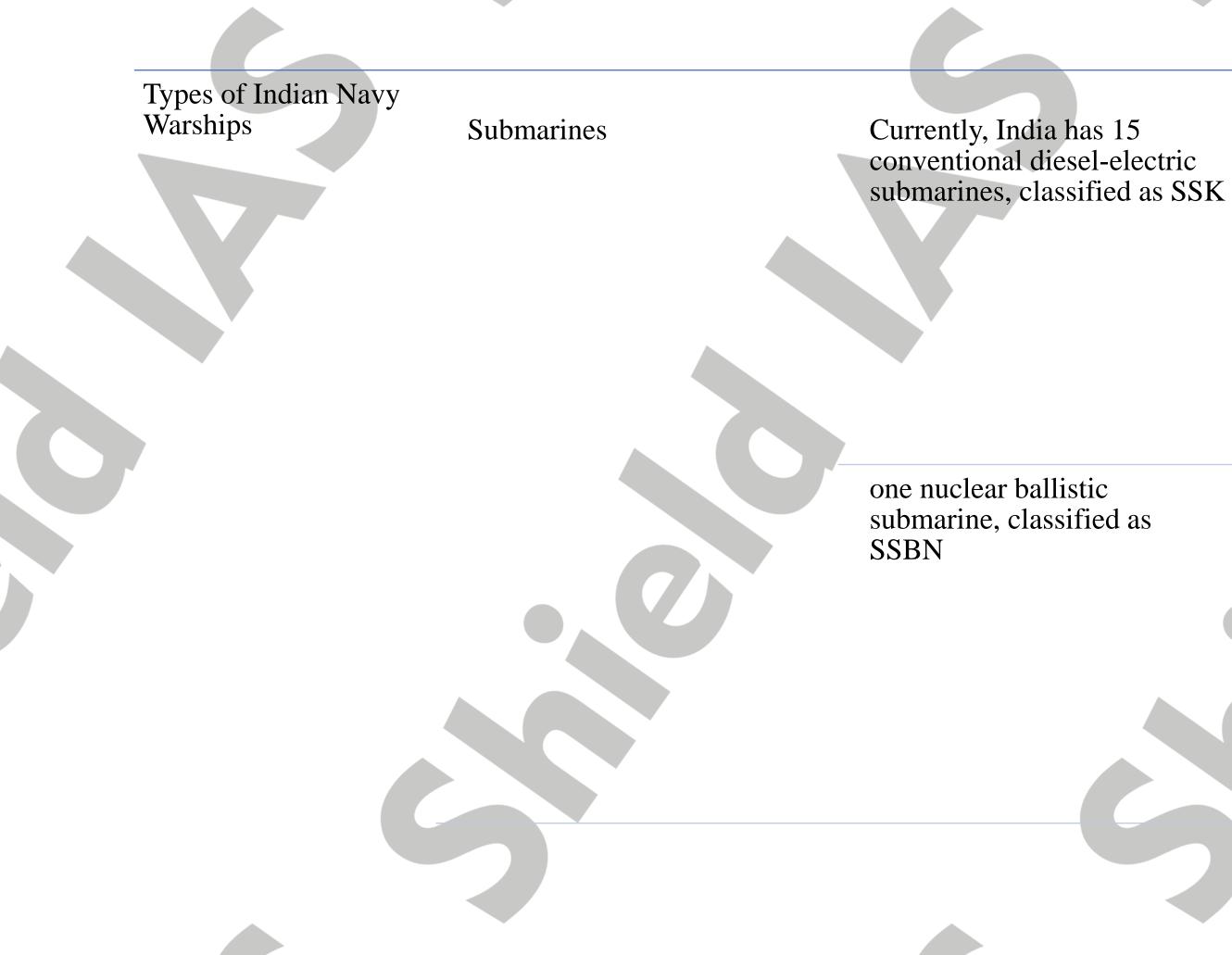
Ty] Wa	pes of Indian Navy arships	FRIGATES	Shivalik Class
			Talwar Class
			Teg Class
			Kamorta Class
			Brahmaputra Class
		CORVETTES	Kora Class
			Khukri Class
			Veer Class
			Abhay Class

Indo-Russian joint production

Indo-Russian joint production

indigenous component of about 90%

guided-missile frigates designed and built in India



Kalvari Class

Sindhughosh Class

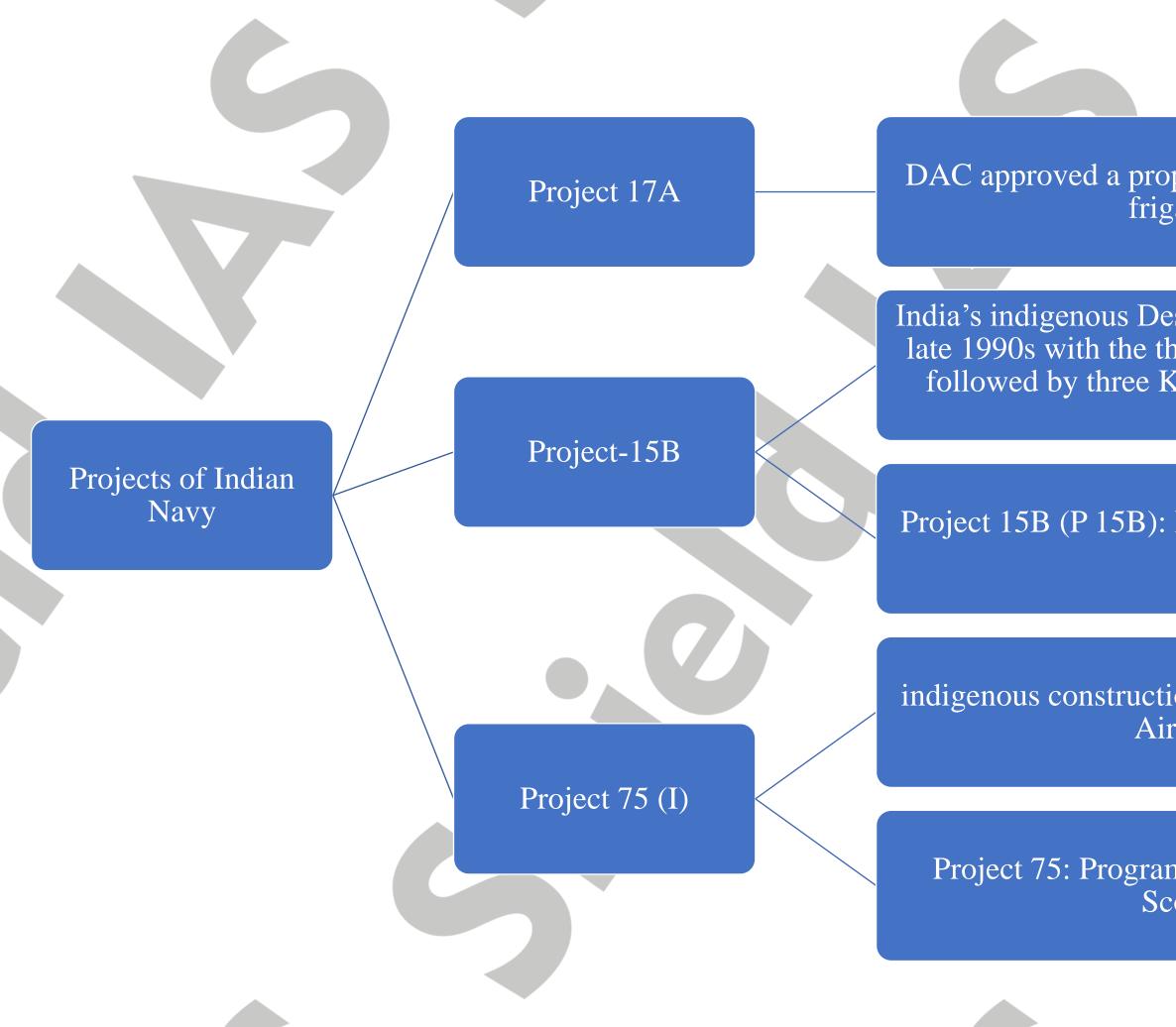
Shishumar Class

INS Arihant

• It is a nuclear-powered ballistic missile submarine, built indigenously

INS Arighat

• an upgraded version of Arihant, is likely to be commissioned within the next few months



DAC approved a proposal in June 2009 for the acquisition of 7 stealthy frigates – codenamed "Project 17A"

India's indigenous Destroyer construction programme commenced in the late 1990s with the three Delhi class (P-15 class) warships and this was followed by three Kolkata class (P-15A) destroyers commissioned a decade later

Project 15B (P 15B): Four Guided missile Destroyers- Vishakhapatnam, Mormugao, Imphal, Surat

indigenous construction of submarines equipped with the state-of-the-art Air Independent Propulsion system

Project 75: Programme by the Indian Navy that entails building six Scorpene-Class attack submarines

Northeast is not last part of country but gateway for trade and ties: Modi

At Shillong, the Prime Minister highlighted that Centre has been investing heavily in the region; he inaugurated and laid the foundation stone of multiple projects estimated at over ₹2,450 crore

The Hindu Bureau CUWARIATI

rime Minister Na rendra Modi on Sunday said the Union government had been investing heavily in Northeast India with his government's motio being "Act fast for northeast and act first for northeast".

Addressing the golden jubtlee celebration of the North Eastern Council (NEC) in Meghalaya's capital, Shillong, he said the Centre was spending 87 lakh crore in the region now as against 82 lakh crore after India's Independence.

Established in 1971 and formally inaugurated in 1972, the NEC is the nodal agency for the economic and soctal development of the northeastern region comprising eight States.

Mr. Modt attributed the focus on the northeast to the change in the way the Centre had been looking at the region since 2014.

"For us, the northeast in not the last part of the country, but the peace and development gateway for trade and other ties with Southeast Astan countries," he said.

governments for ignoring railway," he said.

areas along the international borders in the region, he said the government's vibrant border village programme would help develop these areas on a par with urban centres and prevent outmigration.

The Prime Minister noted that the number of airports in the region increased from nine to 16 and the number of flights Increased from 900 to 1,900 in the last eight years. "Work is now under way to connect all the State Slamming the previous capitals of the region by develop the start-up eco-

50% increase in the length of national highways in the region since 2014, insisting that the infrastructure projects gained momentum after the launch of the PM-DeviNE scheme.

B.D. Mishra (rold) at the golden jublice celebrations of the North Eastern Council, in Shillong, MI

Mr. Modt said the government has been working on improving digital connectivity in the northeast by increasing the optical fibre network with 6,000 mobile towers being set up at a cost of #5,000 crore. "The Atmantribhar 5G infrastructure will help system and service sector

He also underscored the in the region," he said.

Earlier, he inaugurated and laid the foundation stone of multiple projects worth over \$2,450 crore. These include an integrated beekeeping development centre and 21 Hindi libraries for Mizoram, Manipur, Tripura and Assam.

Addressing the golden jubilee function of the NEC as its chairperson, Home Minister Amit Shah said the northeast had improved vastly in terms of funding, peace, development and connectivity after Mr. Modt took charge at the Centre.

K S Deepak



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Q

Northeast is not last part of country but gateway for trade and ties: Modi

Significance of North East for India

Strategic Significance:

- North-East India is the gateway to South-East Asia and beyond. It is India's land-bridge to Myanmar.
- India's Act East Policy places the northeastern states on the territorial frontier of India's eastward engagement.

Cultural Significance:

- North East India is one of the most culturally diverse areas of the world. It is home to over 200 tribes. Popular festivals include the Hornbill Festival of Nagaland, Pang Lhabsol of Sikkim, etc.
- The rich tapestry of cultures of Northeast is reflected in its highly developed Folk dance forms like Bihu (Assam).
- Manipur has a tradition of worshipping nature in sacred groves, called UmangLai.

Economic Significance:

- Economically, the Region is rich in natural resources of "TOT" (Tea, Oil, and Timber).
- It is a veritable powerhouse with a potential of 50000 MW of hydroelectric power and an abundant reserve of fossil fuels.

Ecological Significance:

- North East is a part of Indo-Burma biodiversity hotspot. It represents one of the highest avian and plant biodiversity of the Indian subcontinent.
- This area has the prestige of having all the bear species present in India.

Way Forward

Act-East from Northeast:

• Comprehensive implementation of Act East policy is relevant to the entire country but particularly important for the long term growth of the North East

Potential Powerhouse of India:

- Its geo-strategic location and natural resources also makes it a potential powerhouse of India for development and progress.
- A comprehensive framework needs to be developed to make the region a preferred investment location.

Development of Tourism:

• A key aspect of the development of the North East is tourism, which has the potential to channel the region into mainstream development.

Enhancing Connectivity:

- Connectivity drives commerce, air links to the Northeastern states should be a priority. The development of road and railway projects should be in accordance with disaster-resilient measures.
- Japan has emerged as a major partner in our efforts for the development of the North-East and connectivity to ASEAN

Political and Social Awareness:

• It is necessary to foster inclusivity and drive awareness campaigns to change the perceptions from being a neglected, misgoverned, tribal region into a veritable soft power.

Development of Physical and Social Infrastructure:

- Due to lack of higher educational infrastructure in the North East, a very large number of students migrate to other parts of the country for education leading to a drain of both manpower and financial resources
- Furthermore, there is a need to extend digital connectivity and move towards digital inclusion in the North East.

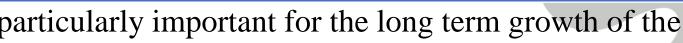
Land Record Management:

• The system of maintenance of formal land records in the North East is weak and practically absent in tribal areas.

• This prevents landholders from securing loans and also leads to a number of land-related disputes.

Northeast- Growing Sports Powerhouse:

• North East is emerging as a sports and sporting powerhouse of India that drives some of the best sportspersons who go onto becoming icons.



North Eastern Council (NEC)

The NEC came into existence by a Parliamentary Act called the North Eastern Council Act, 1971 to act as an advisory body for socio-economic and balanced development of the North-Eastern Areas.

The Council started its functioning in 1972.

NEC members:

- the Governors and
- the Chief Ministers of the 8 states including Sikkim,
- Chairman and 3 members who are nominated by the country's President.

Functions

- To discuss any matter in which some or all of the States represented in the Council have a common interest and advise the Central Government and the Governments of the States concerned as to the action to be taken on any such matter, particularly with regard to –
 - any matter of common interest in the field of economic and social planning;
 - any matter concerning inter-State Transport and Communications;
- any matter relating to Power or Flood-control projects of common interest.
- To formulate and forward proposals for securing the balanced development of the North-Eastern Areas particularly with regard to
 - a unified and coordinated Regional Plan, which will be in addition to the State Plan, in regard to matters of common importance to that area;
 - prioritizing the projects and schemes included in the Regional Plan and recommend stages in which the Regional Plan may be implemented; and
 - regarding the location of the projects and schemes included in the Regional Plan to the Central

India pushes for new biodiversity fund

At the COP-15 biodiversity conference in Montreal, the country said the developing nations bear most of the burden of implementing the targets for conservation and therefore, require adequate funds and technology transfer for this purpose; discussions also held on eliminating subsidies

Press Trust of India NEW DILLHI

here is an urgent need to create a new and dedicated fund to help developing countries successfully im-plement a post-2020 global framework to halt and reverse biodiversity loss, india has said at the U.N. biodiversity conference in Canada's Montreal.

The country said that conservation of blodiversity must also be based on common but differentiated responsibilities and respective capabilities (CBDR) as climate change also impacts nature. As the 196 parties to the Convention on Biological Diversity (CBD) finalise negotiations for a post-2020 Clobal Biodiversity Framework (GBF)

been repeated calls for the Inclusion of the CBDR principle in finance-related targets

Addressing the stocktaking plenary at CBD CDP-15, Union Environment Minister Bhupender Yadav satd the successful implementation of a post-2020 GBF would depend on the "ways and means we put in place for an equally ambttious resource mobilisation mechanism".

"There is a need to create a new and dedicated mechanism for the proviston of financial resources to developing-country parties. Such a fund should be operationalised at the earliest to ensure effective implementation of the post-2020 GBF by all countries," the Minister said. So far, the Global Envi-



Union Environment Minister Bhupender Yadav addresses the stocktaking plenary at the UN Blodiversity Conference in Montreal.

the task of meeting the re-

quirements of the GBF. Dif-

ferences with rich coun-

tries on the matter had

prompted representatives

from developing nations to

walk out of crucial financ-

ing talks last week. India

said developing countries

UNFOOC and UN Convention to Combat Desertification, remains the only source of funding for blodiversity conservation. At CBD COPIS, developing countries have been

demanding a new and ded-- a new set of goals and tar- ronment Facility which ca- icated biodiversity fund. gets to halt and reverse bto- ters to multiple conven- saying the existing multilat- bear the burden of implediversity loss - there have tions, including the eral sources are not up to menting the targets for fossil fuel production, agri- development.

conservation of biodiverst- culture, forestry and fishty and, therefore require funds and technology transfer for this purpose.

Established as the seventh principle of the Rio Declaration adopted at the Earth Summit in 1992, CBDR is defined as states have common but differentiated responsibilities in view of the different contributions to global environmental degradation.

However, applying the CBDR principle to blods versity conservation has not been stratghtforward as compared to dimate negottations, and there have been repeated disagreements between the global north and south.

At CBD COPIS, the parties are also trying to achieve a consensus on eliminating subsidies that are harmful to the environment, such as subsidies for dication and sustainable

ertes, by at least \$500 bilbon annually and using this money for biodiversity conservation.

However, Mr. Yadav said that India does not agree on reducing the agriculture-related subsidy and redirecting the savings for blodiversity conservation, as there are many other national priorities. Mr. Yaday said biodiver-

sity conservation requires ecosystems to be conserved and restored holistically. It is in this context. that ecosystem approaches for conservation of blods versity need to be adopted rather than going for nature-based solutions, he said.

He said the CBF must recognise the responsibility of the developing countries towards poverty era03



India pushes for new biodiversity fund

Dedicated Fund for Biodiversity Conservation

Context

- Recently, in COP15, India supported a new, dedicated fund for biodiversity conservation.
- At CBD COP15, the Union Environment Minister said the successful implementation of a post-2020 Global Biodiversity Framework (GBF) will depend on the "ways and means we put in place for an equally ambitious 'Resource Mobilization Mechanism."
- Environment Minister further added that the developing countries bear most of the burden of implementing the targets for conservation of biodiversity and, therefore, require adequate funds and technology transfer for this purpose.

Need for creation of a dedicated biodiversity fund:

- Need is to create a new and dedicated mechanism for the provision of financial resources to developing-country parties.
- This fund should be operationalised at the earliest to ensure effective implementation of the post-2020 GBF by all countries.
- Currently, the Global Environment Facility which caters to multiple conventions, including the UNFCCC and UN Convention to Combat Desertification, remains the only source of funding for biodiversity conservation.
- India said the developing countries bear most of the burden of implementing the targets for conservation of biodiversity and, therefore, require adequate funds and technology transfer for this purpose.

COP of Convention on Biological Diversity

Meetings of the Conference of the Parties

COP 15 -

- Fifteenth meeting of the Conference of the Parties to the Convention on Biological Diversity (Part Two)
- Montreal, Canada, 7 19 December 2022

COP 15 PART1 -

- Fifteenth meeting of the Conference of the Parties to the Convention on Biological Diversity (COP-15-PART 1)
- Kunming, China, 11 15 October 2021

The Fifteenth meeting of the Conference of the Parties (COP 15) is held in Kunming, China and Montreal, Canada, in two phases. Phase one took place virtually, from 11 to 15 October 2021 and included a High-Level Segment from 12 to 13 October. Phase two is currently happening in Montreal, Canada, from 7 to 19 December 2022.

Global Environment Facility (GEF)

Established on the eve of the 1992 Rio Earth Summit.

The only multilateral fund focused on biodiversity.

The GEF is a unique partnership of 18 agencies —

- including United Nations agencies,
- multilateral development banks,
- national entities and
- international NGOs

Finance:

- Financial contributions by donor countries are provided via several trust funds administered by the World Bank acting as the GEF Trustee and serviced by a functionally independent Secretariat housed at the World Bank.
- The GEF Trust Fund was established to help tackle our planet's most pressing environmental problems.

GEF funding is provided by participating donor countries and made available to developing countries and countries with economies in transition to meet the objectives of international environmental conventions and agreements.

The GEF is a financial mechanism for five major international environmental conventions:

- the Minamata Convention on Mercury,
- the Stockholm Convention on Persistent Organic Pollutants (POPs),
- the United Nations Convention on Biological Diversity (UNCBD),
- the United Nations Convention to Combat Desertification (UNCCD) and
- the United Nations Framework Convention on Climate Change (UNFCCC).







Post-2020 Global Biodiversity Framework / Kunming Declaration

The Kunning Declaration was adopted by over 100 countries at the 15th Conference of the Parties to the United Nations Convention on Biological Diversity in china.

It calls for urgent and integrated action to reflect biodiversity considerations in all sectors of the global economy but crucial issues - like funding conservation in poorer countries and committing to biodiversity-friendly supply chains have been left to discuss later.

• It is not a binding international agreement.

It calls upon the parties to mainstream biodiversity protection in decision-making and recognise the importance of conservation in protecting human health.

- By adopting this, the nations have committed themselves to support the development, adoption and implementation of an effective post-2020 implementation plan, a capacity building action plan for the Cartagena Protocol on biosafety.
 - The Protocol seeks to protect biological diversity from the potential risks posed by living modified organisms resulting from modern biotechnology.

As per the declaration the signatory nations will ensure that the post-pandemic recovery policies, programmes and plans contribute to the conservation and sustainable use of biodiversity, promoting sustainable and inclusive development.

30 by 30 Target

The declaration made a reference to the '30 by 30' target which is a key proposal being debated at the COP15, that would afford 30% of the Earth's land and oceans protected status by 2030.

Apart from this, the goal to halve the use of chemicals in agriculture and stop creating plastic waste is also being debated.

Kunming Biodiversity Fund

- China has also pledged to inject USD 233 million into a new fund to protect biodiversity in developing countries. The fund is being referred to by China as Kunming Biodiversity Fund.
- It is the right step in this direction. However, some countries have reservations regarding this fund.
 - Some countries have called this fund as "a drop in the bucket" given that China is the world's biggest polluter.
 - Further, some rich country donors say a new fund for conservation is unnecessary because the United Nations' Global Environment Facility already helps developing nations finance green projects.

QUIZ OF THE DAY

- Q1. Which among the following is/are NOT part of the proposed five-fold strategy or 'Panchamrita' in CoP 26, Glasgow? 1. India will get its non-fossil energy capacity to 500GW by 2025.
- 2. India will meet 70% of its energy requirements till 2030 with renewable energy.
- 3. India will reduce its projected carbon emission by one billion tonnes by 2030. 4. India will achieve net zero by 2050.

Choose your answer form the options given below:

- a. 1 and 2 only
- b. 3 only
- c. 1, 2 and 4 only
- d. 3 and 4 only

Q2. Consider the following statements about Fuel Cell technology:

1. Fuel cell technology relies on the chemical energy of hydrogen to generate electricity in a clean manner and effectively. 2. Fuel cell vehicles are among the cleanest modes of transportations as they release no GHGs emissions.

Which of the statement/s given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) None of these

