

# DAILY CURRENT AFFAIRS

# 23<sup>rd</sup> December, 2023

53/1, Upper Ground Floor, Bada Bazar Road, Old Rajinder Nagar, New Delhi -110060

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#### S.NO. TOPIC WHY TAMIL NADU EXPERIENCED HEAVY RAINFALL IN DECEMBER MONTHS? 1. 2. **INDIA- FRANCE RELATION** 3. PRELIMS POINTERS

### WHY TAMIL NADU EXPERIENCED HEAVY RAINFALL IN DECEMBER MONTHS?

#### SOURCE: INDIAN EXPRESS

#### WHY IN NEWS?

Tamil Nadu witnessed unprecedented rainfall causing severe flooding and destruction, particularly in Kalyanapattinum, Thoothukudi district.

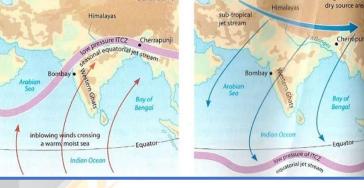
#### MONSOON DYNAMICS IN INDIA:

#### $\geq$ Southwest Monsoon:

- ✓ *Duration:* Early June to mid-September.
- ✓ Wind Direction: Southwest monsoons prevail due to extreme South-West trade winds blowing to the northern hemisphere.
- Trigger: Central India becomes a low-pressure region during summer, and the Arabian Sea turns into a high-pressure region. cold = high press hot = low pressure 'Winter' Summer"
- ✓ Wind Movement: Winds move from the Arabian Sea to land, carrying moisture as South-West monsoon clouds.

Impact on Tamil Nadu: 

- Hindered by the Western Ghats, leading to rainfall in the Western Ghats.
- Tamil Nadu, in the rain shadow area, receives minimal rainfall.



(rainshadow)

- Reasons for Winter Rainfall in Tamil Nadu:
  - North-East Trade Winds: Reversal of South West Monsoon winds leads to North-East Trade Winds.
  - Weakening Heat Flow in North-west India: As the Sun moves south of the equator post-equinox, North-west India cools rapidly, forming high-pressure regions.
  - Wind Movement: High-pressure regions over the North Bay of Bengal and northern India push winds southward, creating a U-shaped low-pressure trough over India's southern coast, including Tamil Nadu.
  - ✓ Formation of North-East Monsoon: Winds from the North Bay of Bengal's high-pressure region are drawn toward the low-pressure trough, initiating the North-East monsoon.
  - Monsoon Retreat: Different wind direction and positioning of low and high-pressure zones compared to the southwest monsoon season.
  - Impact on Tamil Nadu: Tamil Nadu experiences monsoons during winter due to North-East trade winds.

#### **RECENT SCENARIO IN TAMIL NADU:**

#### Normalcy in December:

Northeast Monsoon:

✓ Tamil Nadu receives 48% of its annual rainfall (443.3mm) during October to December, crucial for rabi cultivation.

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- ✓ Heavy rainfall during these months is typical.
- Rainfall Records:
  - ✓ From October 1, Tamil Nadu received 450mm of rainfall, with 14 out of 38 districts facing deficient rainfall.

Exceptional Rainfall Events:

- Southern Tamil Nadu (Dec 17-19):
  - ✓ IMD reported 'exceptionally' heavy rainfall, with districts receiving 100% or more surplus rain during Dec 17–19.
- Unprecedented Figures:
  - Kalyanapattinam recorded **950mm in 24 hours** on Dec 18, exceeding annual rainfall in Lucknow and Ambala.
  - ✓ **Two-day total rainfall at 1160mm**, surpassing annual figures of Chandigarh and Bengaluru.
- > Wettest Places (Dec 18):
  - Notable rainfall in Nalumukku, Oothu, Manjolai, Tiruchendur, Srivaikuntam, Kakkachi, and Kulasekarapattinam.
- Kanyakumari District:
  - ✓ Annual rainfall is 760mm; recorded 1050.7mm during Oct 1 Dec 20.

#### FACTORS BEHIND RECORD RAINFALL IN SOUTHERN TAMIL NADU:

- Vigorous Northeast Monsoon:
  - Situation: The northeast monsoon was robust over Tamil Nadu throughout the week.
  - *Effect:* Steady rainbands, particularly over south Tamil Naduand and neighbouring Kerala.
- Development of Cyclonic Circulation:
  - ✓ Southwest Bay of Bengal, off the western Sri Lankan coast.
  - ✓ Westwards towards southern Tamil Nadu.
  - Enhanced northeast monsoon winds, contributing to heavy rainfall.
  - ✓ Thoothukudi, Tirunelveli, and Kanyakumari districts in Tamil Nadu and Idukki district in Kerala.

#### Persistence of the System:

- ✓ Continuous influence over the southern Tamil Nadu region.
- ✓ Heavy cloud convection, leading to exceptionally heavy rainfall exceeding 200mm in 24 hours.

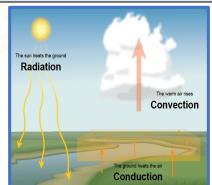
#### IMD'S CURRENT FORECAST:

- Cyclonic Circulation Location:
  - ✓ Over **southeast Arabian Sea**, away from the Indian land mass.
- Forecast:
  - ✓ No significant rainfall expected over Tamil Nadu.
- > IMD Advisory:
  - ✓ Anticipates light to moderate intensity rainfall (up to 64mm in 24 hours) in some southern Tamil Nadu areas until Thursday.
- Future Expectation:
  - ✓ **Reduction in overall rainfall** activity after Thursday.

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# **INDIA- FRANCE RELATION**

#### SOURCE: INDIA EXPRESS

#### WHY IN NEWS?

- The Ministry of External Affairs confirmed in a statement saying: "At the invitation of Prime Minister Narendra Modi, H.E. Mr. Emmanuel Macron, President of France, will be visiting India as the Chief Guest for the 75th Republic Day celebrations."
- $\triangleright$ "As Strategic Partners, India and France share a high degree of convergence on a range of regional and global issues.
- > This year, we are celebrating the **25th anniversary of the India- France** Strategic Partnership", said the MEA in the announcement.

#### **INDIA-FRANCE RELATIONS: HISTORICAL BACKGROUND**

#### Strategic Partnership (1998):

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- Initiation of a Strategic Partnership in 1998 marked the beginning of close and friendly relations between India and France.
- Emblematic of shared views on international issues, fostering a growing bilateral relationship.
- $\triangleright$ Principal Pillars of Cooperation:
  - Defence & Security cooperation, Space Cooperation, and Civil Nuclear Cooperation are the key pillars of the Strategic Partnership.
  - Reflects the depth and breadth of collaboration between the two nations.



INDIA'S GROWING TRADE

WITH FRANCE

\$155

FRENCH GUESTS

Chirac

1976 Prime Minister **Jacques** Chirac

1980 President Valéry

2008 President Nicolas Sarkozy

2016 President Francois Hollande

**Giscard d'Estaing** 1998 President Jacques

- Robust Economic Partnership:
  - Beyond traditional areas, India and France have a robust economic partnership.
  - French businesses contribute significantly to India's goal of becoming 'Atmanirbhar Bharat.'
- **Diverse Areas of Cooperation:**  $\geq$ 
  - Engagement in new areas such as maritime security in the Indo-Pacific, counter-terrorism, climate change, renewable energy, and sustainable growth.
  - ✓ Reflects the evolving **nature of the bilateral relationship** to address contemporary challenges.
- **Global and Regional Alignment:** 
  - ✓ Convergence on regional and global issues, including support for India's claim for permanent membership in the United Nations Security Council.
  - ✓ France played a vital role in **India's accession** to the **Missile** Technology Control Regime (MTCR), Wassenaar Arrangement (WA), and Australia Group (AG).
  - Continued French support for India's bid to join the Nuclear Suppliers Group (NSG).
- **Economic Linkages:** 
  - Bilateral trade reached \$13.4 Bn in 2022-23, a 7.72% increase from the previous year.
  - ✓ France ranks as the 11<sup>th</sup> largest investor in India, contributing \$10.5 Bn in FDI from April 2000 to March 2023.
  - $\checkmark$ Economic synergy fosters linkages between French businesses and the Indian economy, supporting India's 'Aatmanirbhar Bharat' vision.

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#### Cultural and Educational Ties:

- ✓ Vibrant bilateral cultural and educational linkages enhancing mutual understanding.
- $\checkmark$  Growing people-to-people contacts strengthening the bond between the two nations.

#### > Diaspora Presence:

- ✓ Significant Indian diaspora presence in metropolitan France and its overseas departments/territories.
- ✓ Illustrates the depth of **people-to-people connections** and cultural exchange.

#### **RECENT TIES BETWEEN INDIA AND FRANCE:**

#### Building Sovereign Defence Capabilities:

- ✓ France is a key partner in India's self-reliant defence efforts.
- ✓ Cooperation in co-development of advanced defence technologies.
- Timely delivery of 36 Rafale aircraft, highlighting a five-decade partnership.
- Joint development of a combat aircraft engine and industrial cooperation for the Indian Multi-Role Helicopter (IMRH) program.
- Success in the Scorpene submarine construction program (P75 – Kalvari), showcasing the Make in India initiative.

#### > Indo-Pacific Cooperation for Stability:

 Shared vision on Indo-Pacific for economic and security interests.  PM's visit to France to deepen the strategic ties (22-23 August 2019)
 PM termed India - France cooperation as IN-FRA meaning India France Alliance.
 France and India further strengthened their cooperation in the areas of bilateral trade, space, defence and others.
 The two countries decided to train medical personnel for supporting the Indian astronauts, who will be a part

India's expanding

in the World

sphere of Influence

for supporting the Indian astronauts, who will be a part of the India's manned space mission by 2022. The training will be carried out in France and in India.

- Space Climate Observatory launched enhancing Indo-French cooperation on combating climate change.
- Adoption of a new Indo-Pacific Roadmap for stability and sustainability.
- Trilateral cooperation with the United Arab Emirates and Australia.
- ✓ Introduction of Indo-Pacific Triangular Cooperation (IPTDC) Fund for green technologies.
- Space Collaboration at the Core:
  - ✓ Deepening cooperation in space, including scientific and commercial partnerships.
  - ✓ Strengthened partnership between CNES and ISRO on climate, space exploration, and more.
  - ✓ Commitment to enhancing sovereign access to space.
  - ✓ Institutionalized bilateral strategic space dialogue.

#### > Counterterrorism and Internal Security:

- ✓ Strengthened cooperation in counterterrorism, covering operational aspects and online radicalization.
- ✓ Emphasis on internal security collaboration.
- ✓ Formalization of cooperation between NSG of India and GIGN of France.
- ✓ Focus on technology utilization by internal security agencies.
- > Promoting Effective Multilateralism:
  - ✓ **Rejection** of attempts to undermine **international order**.
  - ✓ Support for reforming global governance.
  - ✓ Advocacy for UN Security Council reform, including the G4 nations.
  - ✓ Commitment to a comprehensive international convention on countering ICT-related crimes.
- Science, Technology, and Academic Cooperation:
  - ✓ Establishment of an India-France Joint Strategic Committee for scientific cooperation.
  - ✓ Bilateral cooperation on advanced digital technologies, supercomputing, and AI.

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#### ✓ Intensified cooperation in health and medicine, including digital health.

✓ Collaborative **efforts in cyber cooperation, digital regulation**, and digital public infrastructure.

#### Innovation Ecosystems and Start-ups:

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- ✓ Commitment to deepen cooperation in promoting research partnerships.
- Support for bilateral cooperation in digital infrastructure, AI, and cybersecurity.
- Emphasis on the power of start-ups in driving innovation.
- ✓ Implementation of Unified Payment
   Interface (UPI) in France and Europe.
- Advancement of multi-stakeholder exchanges through platforms like InFrastructures and InFinity.
- Promoting Exchanges and Mobility:
  - Implementation of the Partnership Agreement on Migration and Mobility.
  - Mutual visa exemptions for official passport holders.
  - Encouragement of student mobility, joint training programs, and linguistic cooperation.

India-France Strateg Partnership's 25th

Anniversary was commemorated by the Tri-Service contingent participation in the pa

- ✓ France's commitment to welcome 20,000 Indian students by 2025 and 30,000 by 2030.
- Cultural Dialogue and Exchanges:
  - Establishment of foundational programs for cultural exchanges.
  - ✓ Cooperation in museums, heritage, cinema, and literary endeavours.
  - Promotion of French language teaching in India and vice versa.
  - Exploration of India's potential participation in the Organisation internationale de la francophonie.

#### CHALLENGES IN FRANCE-INDIA RELATIONS:

- Defence Sector Dynamics:
  - India's pursuit of military capabilities through orders like Rafale Marine aircrafts.
  - Negotiations on Scorpene-class submarines and codevelopment of a fighter plane engine.
  - Challenges in aligning strategic objectives in military equipment and satellite development.
- Trade Imbalance and Focus Areas:
  - ✓ Breakdown of trade products, with a heavy reliance on aeronautics for French exports.
  - ✓ Key imports by France include petroleum products, clothing, and machinery.
  - ✓ Addressing trade imbalances and diversifying focus areas for sustainable economic growth.
- Educational Objectives:
  - ✓ Macron's target of 20,000 Indian students by 2025, with current enrollment at around 10,000.
  - ✓ Promoting educational exchange and cultural understanding despite numerical disparities.
- Investment Landscape:
  - ✓ Presence of **700 French subsidiaries in India**, contributing to jobs and economic turnover.
  - Industrial successes, such as Renault's localization efforts, reflecting market competitiveness.

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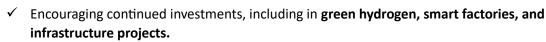


Modi expressed gratitude to Franc d being a strong and trusted partner for billion indians. The Bastille Day, or F National Day commemorates the hit e storming of the Bastille prison d a the French Revolution in 1788. The symbolizes French 'Liberty, Equality Textensity.

**India-France partnership** 

at Bastille Day Parade

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#### > Cultural Differences Impacting Business:

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- ✓ Varied perceptions of individualism and collectivism, affecting work dynamics.
- ✓ Importance of hierarchy in Indian companies contrasting with French matrix organizations.
- ✓ Challenges in communication, interpersonal relations, and **flexibility due to cultural disparities**.

#### Time Management and Decision-Making:

- ✓ Differences in perceptions of time, punctuality, and meeting expectations.
- ✓ Cultural nuances influencing flexibility and decision-making processes.

#### WAY FORWARD:

- Shared Convergence on Global Issues:
  - ✓ Highlighting a high degree of convergence between India and France on regional and global matters.
  - ✓ Strengthening ties as strategic partners with a shared commitment.
- Defence Partnership Milestones:
  - ✓ Recognizing France as a key defence partner for India.
  - ✓ Emphasizing the consistent high-level engagements and collaborations in defence.
- Bilateral Commitment:
  - ✓ Macron's acceptance of the invitation reflects a commitment to bilateral relations.
  - Building on the momentum of past interactions, including PM Modi's participation in the Bastille
     Day parade.
- > 25th Anniversary Celebrations:
  - ✓ Capitalizing on the symbolic 25<sup>th</sup> anniversary of the India-France Strategic Partnership.
  - Exploring opportunities for deepening collaboration across sectors.
- **Global Diplomacy:** 
  - Leveraging the visit to enhance diplomatic efforts on regional and global platforms.
  - Mutual engagement on shared global challenges, including climate change, terrorism, and economic cooperation.
- Economic and Trade Discussions:
  - Exploring avenues for boosting economic and trade relations.
  - ✓ Discussing potential collaborations in areas such as technology, innovation, and green initiatives.
- Strategic Dialogues:
  - ✓ Holding strategic dialogues on geopolitical issues of mutual interest.
  - ✓ Addressing evolving geopolitical landscapes and strategizing on shared security concerns.
- Innovation and Technology Collaboration:
  - ✓ Emphasizing joint efforts in innovation and technology.
  - Exploring opportunities for collaborative projects in areas like space exploration, renewable energy, and advanced technologies.

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TOPIC

The Seven and Nine Judge

Constitution Benches

# **PRELIMS POINTERS:**

DISCRIPTION
WHY IN NEWS?
The Supreme Court's agenda for the upcoming year includes a series of crucial issues
to be heard by <b>seven-judge Constitution Benches</b> .
The key matters involve the passage of laws, such as Money Bills and the sub-
classification of Scheduled Castes and Tribes.
Additionally, the court will address the interplay between the breach of privilege of
legislatures and citizens' fundamental rights, the Speaker's authority in hearing
disqualification petitions, criteria for minority-run educational institutions, and the
validity of state laws imposing surcharge on sales tax.
CONSTITUTION BENCHES IN THE SUPREME COURT:
Understanding of Constitution Benches:
<ul> <li>A Constitution Bench in the Supreme Court comprises five or more judges.</li> </ul>
They are not routine; their formation is exceptional, addressing specific
circumstances.
<ul> <li>Constitution</li> <li>Benches</li> </ul>
assembled 55 times in the
first half of 2023.
<ul> <li>None of them were seven</li> </ul>
and nine-judge Benches.
Circumstances
Constitution Benches:
Mandate of Article 145: ру бладат и ру сладати и ру бладат и ру бладати и ру блада и ру бладати
Article 145 of the Indian Constitution mandates a minimum of five judges
for benches dealing with substantial constitutional questions.
<ul> <li>Presidential Reference: Initiated when the President seeks the Supreme</li> </ul>
Court's opinion under Article 143.
Conflicting Judgments: Arises when conflicting judgments occur within
three-judge benches.
<ul> <li>Doubts on Previous Judgments: When a later three-judge bench questions</li> </ul>
the correctness of a previous judgment.
Impactful Precedents:
Example: The 2017 nine-judge Bench in K.S. Puttaswamy v Union of India
recognized the <b>right to privacy as fundamental</b> .
Such precedents guide subsequent cases, e.g., supporting arguments for
LGBTQIA+ marriage equality.
Basic Structure Doctrine:
Established by the 13-judge Bench in Kesavananda Bharati v State of Kerala
(1973), serving as a binding precedent for constitutional matters.

#### STAGNATION OF LARGER BENCH CASES: REASONS AND SPECULATIONS

- Silence on Seven and Nine-Judge Benches:
  - Speculation on the stagnation of larger benches.

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	<ul> <li>Possible challenges for the Supreme Court due to the current caseload of 69,776 cases.</li> <li>Judicial Burden Concerns:         <ul> <li>Larger benches occupy a significant portion of the court's sanctioned strength.</li> <li>For a seven-judge bench, 21% of the court's judges are occupied; for a nine-judge bench, it rises to 26%.</li> </ul> </li> </ul>					
PM-DevINE Scheme	<ul> <li>WHY IN NEWS?</li> <li>Ministry of Development of North Eastern Region (DoNER) convenes a meeting with Chief Ministers of Northeastern States.</li> <li>Discussion centered on projects under the Prime Minister's Development Initiative for North East Region (PM-DevINE).</li> <li>Review by the Prime Minister's Office (PMO) reveals slow progress despite adequate funds allocated to PM-DevINE.</li> <li>Only a little over 10% of funds sanctioned.</li> </ul>					
	<ul> <li>ABOUT PM-DEVINE SCHEME</li> <li>Introduction:</li> <li>The Prime Minister's Development Initiative for North-East Region (PM-DevINE) was introduced in the Union Budget 2022-23.</li> <li>It is a Central Sector Scheme, exclusively funded by the Central Government and implemented by the Ministry of Development of North Eastern Region (DoNER) through the North Eastern Council or Central Ministries/agencies.</li> <li>Objectives of the PM-DevINE Scheme:</li> <li>PM-DevINE aims to facilitate the rapid and comprehensive development of the North-East Region.</li> <li>The scheme focuses on funding infrastructure and social development projects tailored to the perceived needs of the States.</li> <li>It emphasizes convergence with the PM GatiShakti initiative, supports social development based on regional requirements, enables livelihood activities for youth and women, and addresses development gaps in various sectors.</li> <li>Notably, PM-DevINE does not act as a substitute for existing Central and State Schemes.</li> <li>Empowered Committee:</li> <li>An Empowered Committee, chaired by the Secretary of the Ministry of DoNER, has been established.</li> <li>This committee, serviced by the Ministry of DoNER, will screen, appraise, and recommend project proposals for implementation.</li> </ul>					

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	<ul> <li>Additionally, it will monitor the progress of sanctioned projects to ensure the effective utilization of allocated funds under the PM-DevINE Scheme.</li> <li>PM-DEVINE SCHEME BUDGET ALLOCATION:</li> <li>Total approved outlay for 2022-23 to 2025-26 is ₹6,600 crore.</li> <li>Nine projects worth ₹855.85 crore approved as of the provided information.</li> <li>The scheme, announced in the 2022-23 Union Budget with an initial allocation of ₹1,500 crore, focuses on holistic development by funding infrastructure and social</li> </ul>						
PALNA SCHEME	<ul> <li>Projects based on regional needs</li> <li>WHY IN NEWS?</li> <li>The Women and Child Development Ministry has announced its intention to establish 17,000 creches in anganwadis nationwide under the 'Palna' scheme.</li> <li>The Ministry has approved 5,222 creches thus far and plans to establish a total of 17,000 creches in anganwadis.</li> <li>ABOUT THE 'PALNA SCHEME'</li> <li>Scheme: <ul> <li>The initiative, known as the 'Palna' scheme, focuses on providing safe and secure daycare facilities (creches) within anganwadis.</li> <li>The scheme aims to address the need for quality daycare facilities for children of working women, enabling women from various socio-economic backgrounds to engage in gainful employment in both organized and unorganized sectors.</li> </ul> </li> <li>Objectives Of the Scheme: <ul> <li>Quality creche care facility by providing a safe and secure environment for children.</li> <li>To support nutritional, health and cognitive development of children</li> <li>Enable mothers to take up gainful employment.</li> </ul> </li> <li>Key Services: <ul> <li>Sleeping facility.</li> <li>Sleeping facility.</li> <li>Sleeping facility.</li> <li>Sleeping facility.</li> <li>Sleeping facility.</li> <li>Sleeping facility.</li> <li>Supplementary nutrition (to be locally sourced).</li> <li>Growth Monitoring, health check ups and immunization in convergence with POSHAN 2.0.</li> </ul> </li> </ul>						
	<ul> <li>Two additional creche workers and helpers will be deputed alongside existing anganwadi workers and helpers to enhance the quality of childcare services.</li> <li>Standard Operating Procedure (SOP):</li> </ul>						

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<ul> <li>Mational Mathematics Day: Celebrating Srinivasa Ramanujan's</li> <li>Borth Anniversary Celebration:</li> <li>December 22 is celebrated as National Mathematics Day, marking the birth anniversary of the legendary mathematician Srinivasa Ramanujan (1887- 1920).</li> <li>Humble Beginnings:</li> <li>Born in Erode, Tamil Nadu, Ramanujan displayed exceptional mathematical tatent from a young age despite facing health challenges, surviving smallpox at 2.</li> <li>Academic Struggles, Mathematical Brilliance:</li> <li>Despite excelling in mathematics, Ramanujan faced academic challenges and struggled in other subjects.</li> <li>Failed scholarship and limited pois prospects led him into poverty, with mathematics being his sole pursuit.</li> <li>Early Mathematical Achievements:</li> <li>At 14, he demonstrated advanced mathematical aptitude, completing exams in half the time.</li> <li>By 1910, he gained recognized Ramanujan's theorems and invited him to London.</li> <li>Ramanujan's intuition and innovative thinking impressed Hardy.</li> <li>Cambridge Years:</li> <li>Enrolled at Trinity College, Cambridge, in 1914, Ramanujan collaborated with Hardy and Littlewood.</li> </ul>		<ul> <li>A new Standard Operating Procedure (SOP) has been released for anganwadi-cum-creche centres under the 'Palna' scheme.</li> <li>The SOP outlines a comprehensive framework, including administrative hierarchy, roles, responsibilities of workers, and a monitoring checklist for effective implementation.</li> <li>Women Workforce Participation:         <ul> <li>According to government data, women's participation in the workforce increased to 37% in 2022.</li> <li>The scheme aligns with the goal of supporting women who work outside their homes, such as agricultural laborers or construction workers, by providing a secure environment for their children.</li> <li>Operational Anganwadi Centers:                 <ul></ul></li></ul></li></ul>
<ul> <li>National Mathematics Day:</li> <li>National Mathematics Day:</li> <li>December 22 declared National Mathematics Day by then Prime Minister Manmohan Singh in 2012 to honor Ramanujan's legacy.</li> <li>ABOUT SRINIVASA RAMANUJAN</li> <li>Birth Anniversary Celebration:</li> <li>December 22 is celebrated as National Mathematics Day, marking the birth anniversary of the legendary mathematician Srinivasa Ramanujan (1887-1920).</li> <li>Humble Beginnings:</li> <li>Born in Erode, Tamil Nadu, Ramanujan displayed exceptional mathematical talent from a young age despite facing health challenges, surviving smallpox at 2.</li> <li>Academic Struggles, Mathematical Brilliance:</li> <li>Despite excelling in mathematics, Ramanujan discle challenges and struggled in other subjects.</li> <li>Failed scholarship and limited job prospects led him into poverty, with mathematics being his sole pursuit.</li> <li>Early Mathematical Achievements:</li> <li>At 14, he demonstrated advanced mathematical aptitude, completing exams in half the time.</li> <li>By 1910, he gained recognition in Madras' mathematical circles.</li> <li>Collaborative Breakthrough:</li> <li>In 1913, GH Hardy of Cambridge recognized Ramanujan's theorems and invited him to London.</li> <li>Ramanujan's intuition and innovative thinking impressed Hardy.</li> <li>Cambridge Years:</li> <li>Enrolled at Trinity College, Cambridge, in 1914, Ramanujan collaborated</li> </ul>		mini-anganwadi centres across the country.
	Mathematics Day: Celebrating Srinivasa Ramanujan's	<ul> <li>National Mathematics Day:</li> <li>December 22 declared National Mathematics Day by then Prime Minister Manmohan Singh in 2012 to honor Ramanujan's legacy.</li> <li>ABOUT SRINIVASA RAMANUAN         <ul> <li>Birth Anniversary Celebration:</li> <li>December 22 is celebrated as National Mathematics Day, marking the birth anniversary of the legendary mathematician Srinivasa Ramanujan (1887- 1920).</li> <li>Humble Beginnings:                 <ul> <li>Born in Erode, Tamil Nadu, Ramanujan displayed exceptional mathematical talent from a young age despite facing health challenges, surviving smallpox at 2.</li> </ul> </li> <li>Academic Struggles, Mathematical Brilliance:                     <ul></ul></li></ul></li></ul>
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	<ul> <li>Elected to the London Mathematical Society in 1917 and became a Fellow</li> </ul>					
	of the <b>Royal Society in 1918.</b>					
	Return to India and Legacy:					
	Plagued by health issues, Ramanujan returned to India in 1919 and passed					
	away in 1920.					
	<ul> <li>Hardy considered Ramanujan's genius comparable to Euler and Jacobi.</li> </ul>					
	Mathematical Contributions:					
	<ul> <li>Renowned for contributions to number theory, partition function,</li> </ul>					
	continued fractions, Riemann series, elliptic integrals, and more.					
	<ul> <li>Left behind notebooks with unpublished results, continuing to influence mathematicians.</li> </ul>					
CREDIT	WHY IN NEWS?					
RATING	The Finance Ministry released a document criticizing the "opaque methodologies"					
AGENCIES	used by <b>major global credit rating agencies</b> , including <b>Moody's, Standard &amp; Poor's,</b>					
	and Fitch.					
	Chief Economic Advisor V Anantha Nageswaran stated it aims to present alternate					
	perspectives on economic policy with implications for India's growth.					
	CREDIT RATING AGENCIES					
	Definition: What Are Credit Rating Agencies?					
	<ul> <li>An agency that</li> </ul>					
	evaluates and assigns credit tating Agency A					
	creditworthiness ratings					
	to organizations,					
	individuals, or entities.					
	Regulation in India:     (stocks, bonds, mortgage- Regulated by SEBI     (investment (speculative backed securities, grade) collateralized debt					
	Kegulated by SEBI     collateralized debt     (Credit Rating Agencies)     and redit default swaps)					
	Regulations, 1999,					
	under the Securities and Exchange Board of India Act, 1992.					
	✤ Global Concentration:					
	Dominated by three major agencies - Moody's, Standard & Poor's, and					
	Fitch.					
	SOVEREIGN CREDIT RATING					
	Definition:					
	An independent assessment of a country or sovereign entity's					
	creditworthiness.					
	✤ Purpose:					
	<ul> <li>Allows external credit rating agencies to assess a country's financial health,</li> </ul>					
	demonstrating transparency to investors.					
	* Factors Considered:					
	Per capita income, GDP growth, inflation rate, external debt, economic					
	development, history of defaults.					
	<ul> <li>Impact:</li> <li>Higher ratings facilitate easier access to funds from international markets</li> </ul>					
	and attract foreign direct investment.					
53/1, Up	per Ground Floor, Bada Bazar Road, Old Rajinder Nagar, New Delhi -110060					

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## TATHASTU Institute of Civil Services

<ul> <li>Grading Pattern:</li> <li>Similarity Among Agencies: Standard &amp; Poor's, Moody's, and Fitch follow comparable grading patterns.</li> <li>Highest Gradie: AAA, denoting the highest capacity to meet financial commitments.</li> <li>Lowest Grade: D, indicating a high probability of payment default or breach of promises.</li> <li>Grading Subs: Use letters A, B, and C, with additional single or double letters and the highest capacity to meet financial commitments.</li> <li>Moody's Separation: Uniferentiates short-term and long-term ratings, with Aaa as the highest for long-term and P-1 for short-term.</li> <li>Fitch Range: NAA to D, following a succession pattern similar to Moody's and S&amp;P.</li> <li>COVERNMENT'S CRITCISM</li> <li>Coverty and Bia:</li> <li>Agencies' methodologies are opaque and may disadvantage developing economies, with biase against public-sector banks.</li> <li>Lack of Transparency in Expert Selection:         <ul> <li>Agencies' methodologies are opaque and may disadvantage developing economies, with biase against public-sector banks.</li> <li>Lack of Transparency in Expert Selection:</li></ul></li></ul>		Grading Pattern:						
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- The platforms have export potential, offering mutually beneficial opportunities for joint ventures with other countries.
- Increased Footprint:
  - IAF's increased footprint in regular training engagements with partner nations facilitates sharing of best practices in operations and maintenance.
- Training Initiatives:
  - Indian Military Advisory Teams and courses through the Indian Technical and Economic Cooperation programme contribute to increased cooperation.
- Foreign Trainees:
  - Over the past nine years, IAF has trained more than 5,000 foreign trainees from Global South countries.

#### LIGHT COMBAT AIRCRAFT (TEJAS) PROGRAMME

- Initiation:
  - Started in the 1980s to replace India's aging MiG-21 fighters and later integrated into the fleet modernization program.
- Official Name: Designated "Tejas" in 2003.
- Significance: India's first self-made fighter jet.
- Operational Clearance: Received final operational clearance in February 2019.
- Development:



Developed by Hindustan Aeronautics Limited (HAL), the second supersonic fighter jet after HAL HF-24 Marut.

#### LIGHT COMBAT HELICOPTER (LCH) PROGRAMME:

- ✤ Origin:
  - Conceived to meet the Indian Air Force's (IAF) need for a dedicated light helicopter for combat operations.
- ✤ Inspiration:
  - The requirement arose during the 1999 Kargil war for a lightweight assault helicopter for precision strikes.
- Government Sanction:
  - LCH project sanctioned in 2006 with HAL assigned the development task.



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