



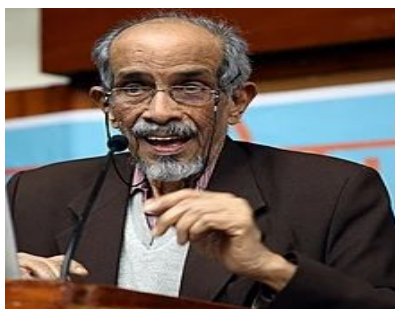
PLUTUS IAS

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Person in News:

Roddam Narasimha



BORN: 20 July 1933, BENGALURU

DIED: 14 December 2020

He was a native of Karnataka.

Who was he?

He was an outstanding scientist, passionate about leveraging the power of science and innovation for India's progress.

Achievements:

- He taught Aerospace Engineering at the IISc.
- Roddam Narasimha was an Indian aerospace scientist and fluid dynamicist.
- He was a Professor of Aerospace Engineering at the Indian Institute of Science.
- He was Director of the National Aerospace Laboratories
- He also served in Policy making bodies in the Government of India(space commission etc.).
- Bhatnagar Prize (1978), the AIAA Fluid Dynamics Award (2000),

Trieste Science Prize (2008), and election to all the academies of Science and Engineering in India.

- He was awarded Padma Vibhushan in 2013.

Vigyan Yatras to promote Scientific Temper among Masses.



Context:

- Vigyan Yatras to promote Scientific Temper among Masses being organised by various institutions ahead of IISF 2020 in around 30 locations across the country.

About:

- Vigyan Yatra is a science journey that will be organized in our country.
- It is a promotional activity of the India International Science Festival.
- Around 30 locations have been identified across the country where this science journey will be organized.

- Vigyan Yatra that will be organized Vigyan Yatra is a mobile science exhibition.
- Eminent Science communicators, innovators, teachers, students and research scholars of the locality will be felicitated.

What is IISF?

- **IISF** means **India International Science Festival** is a festival to celebrate the achievements of India's scientific and technological advancements with students, innovators, craftsmen, farmers, scientists and technocrats from India and abroad
- IISF is an **annual event** organised jointly by science & technology-related Ministries and Departments of the Government of India and Vijnana Bharati (Vibha).
- The **6th edition** of India International Science Festival to be held in Virtual format from 22nd to 25th December, 2020 due to the Covid-19 pandemic.
- It will be a reflection on Indian Science & Technology Innovations for Atma Nirbhar Bharat and Global welfare

OBJECTIVE:

- Promoting love and passion for science among young people and students by bringing science outside the labs.
- To reflect on the role of Indian Scientists and S&T innovations for not just Atmanirbhar Bharat but global welfare also.

LAUNCH OF 'HIMGIRI'



Context:

'Himgiri' is the first ship to be built in Kolkata, under the **Project 17A** program.

What is Project 17A?

- Under the Project 17A (P17A) program, a total of seven ships are being built with enhanced stealth features, advanced indigenous weapons and sensor fit along with several other improvements.
- The objective is to build the state-of-the-art warships of P17A for Indian Navy

Recent Development:

- **Himgiri** has been launched in Kolkata.
- It is the first state of the art ship under Project 17A for Indian Navy.
- Project 17A has upheld India's vision for Atmanirbhar Bharat.
- P17A ships have been indigenously designed by Directorate of Naval Design
- Project 17A ships sourced 80% of the material/ equipment required for the project from indigenous vendors and with employment generation for over 2000 Indian firms and MSMEs within the country.

Who will construct?

A total of seven ships have to be constructed, four at Mazagon Dock Shipbuilders Limited (MDL) and three ships at Garden Reach Shipbuilders and Engineers Limited (GRSE). The Himgiri ship has been constructed by **GRSE**.

National Family Health Survey-5

Context:

Union Minister of Health and Family Welfare, Government of India, released the **fifth National Family Health Survey (NFHS-5)** on Universal Health Coverage Day.

Objective:

The main objective of successive rounds of the NFHS is to provide reliable and comparable datasets on health, family welfare and other emerging issues.

Unique features in NFHS-5 (National Family Health Survey-5):

- All the rounds of NFHS have been conducted by the International Institute for Population Sciences (IIPS), Mumbai, as the national nodal agency.
- Earlier the Health Ministry itself used to conduct District Level Health Survey (DLHS) and Annual Health Survey (AHS). This time MoHFW has decided to conduct **integrated NFHS** with a periodicity of three years.

- Four rounds of NFHS (**1992–93, 1998–99, 2005–06 and 2015–16**) have been successfully completed in India.
- The NFHS-5 is being conducted in around **6.1 lakh** sample households to provide disaggregated data up to district levels.
- NFHS-5 includes **new focal areas** such as child immunization, components of micro-nutrients to children, menstrual hygiene, frequency of alcohol and tobacco use, additional components of non-communicable diseases (NCDs), expanded age ranges for measuring hypertension and diabetes among all, **aged 15 years and above.**

KEY RESULTS:

- The Total Fertility Rates (TFR) has further declined.
- Overall Contraceptive Prevalence Rate (CPR) has increased substantially.
- Unmet needs of family planning have witnessed a declining trend.
- The unmet need for spacing which remained a major issue in India in the past has come down to less than 10 per cent in almost all the states.
- Full immunization drive among children aged 12-23 months has recorded substantial improvement, more than two-third of children are fully immunized.
- Institutional births have increased substantially.
- There has also been a substantial increase in C-section deliveries, especially in private health facilities.
- Anaemia among women and children continues to be a cause of concern. More than half of the children and women are anaemic. It has also been observed that anaemia among pregnant women has increased.
- For both women and men, there is a lot of variation in the high or very high random blood glucose levels. Men are more likely to have slightly higher blood glucose levels in the range of high or very high compared to women.
- The percentage of households with improved sanitation facilities and clean fuel for cooking has increased.

- The Government of India has made concerted efforts to provide toilet facilities to maximum households through Swachh Bharat Mission,
- improved household environment through Pradhan Mantri Ujjwala Yojana in the country.
- Women's empowerment indicators portray considerable improvement. Considerable progress has been recorded between NFHS-4 and NFHS-5 in regard to women operating bank accounts.

Utilization:

- The result of this survey will give **requisite input** for strengthening existing programmes and evolving new strategies for policy intervention.
- The important indicators on population, health and family welfare, nutrition and others included in NFHS will help track progress of **Sustainable Development Goals (SDGs)** in the country.

Swadhinta sarak between India & Bangladesh

Context-

'Swadhinata Sarak' between Bangladesh and India will be opened on March 26, 2021. The road remains functional in India while it will be connected through Meherpur, Mujibnagar district in Bangladesh.

About Bangladesh:

- Bangladesh, is a country in South Asia.
- It was created in 1971, when it got liberation from Pakistan.
- It is narrowly separated from Nepal and Bhutan by the Siliguri Corridor, and from China by Sikkim.
- Bangladesh is the only country in the world that was created on the basis of language and ethnicity.
- It is the third largest Muslim Majority country.
- Most of the country is dominated by the fertile Ganges-Brahmaputra delta, which is the largest river delta in the world.

- It shares the largest International border with India.

India & Bangladesh:

- India played a great role in the emergence of independent Bangladesh. India was the first country to recognise Bangladesh as a separate state.
- Both the countries are the common members of SAARC, BIMSTEC, IORA and the Commonwealth.
- Indian External Affairs Minister visited Bangladesh in her first official overseas trip in June, 2014. On 7 May 2015 the Indian Parliament, in the presence of Bangladeshi diplomats, unanimously passed the Land Boundary Agreement (LBA) as its 100th Constitutional amendment, thereby resolving all 68-year-old border disputes since the end of the British Raj.
- There is a train between these two countries i.e Maitree Express and we have buses between Dhaka, Guwahati and Shillong.

The All India Kisan Coordination Committee Members submit a memorandum to Agriculture Minister in favour of the Farm Acts

Context:

- The office bearers from different States representing the All India Kisan Coordination Committee met Agriculture Minister Shri Narendra Singh Tomar in Krishi Bhavan today.



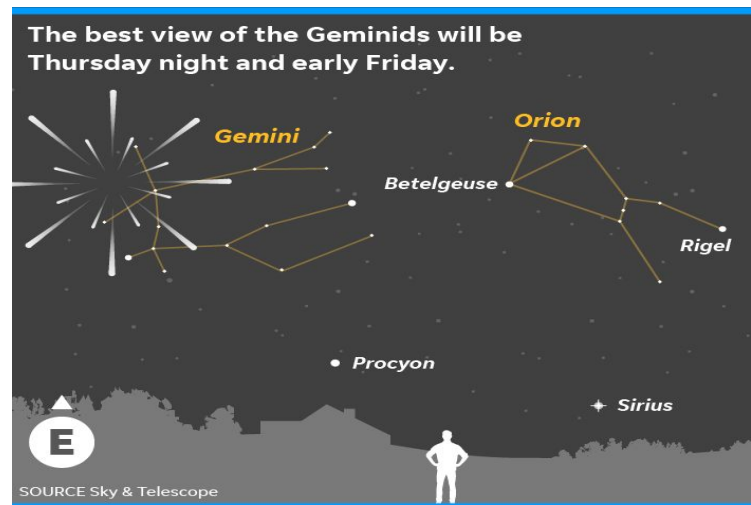
What was the outcome of the meeting?

- More than seven thousand NGOs work under the umbrella of the All India Kisan Coordination Committee and their members will all rise up to support the recently enacted Farm Acts.
- They expressed their gratitude to the Union Government for enacting these Farm Acts and urged not to give in to the demands of the agitators to roll them back.
- They also appealed that the Government should continue to educate the people about the benefit of these laws through advertisements and through training programmes.

Geminids Meteor Shower

Context:

- The Geminids meteor shower, believed to be the strongest of the year, is active from December 4-December 20, with December 13 and 14 considered to be the best nights for viewing these meteor showers.



What are meteor showers?

- Meteors are bits of rock and ice that are ejected from comets as they manoeuvre around their orbits around the sun. For instance, the

Orionids meteors emerge from the comet 1P/Halley and make their yearly presence in October. Meteor showers are witnessed when Earth passes through the trail of debris left behind by a comet or an asteroid.

- When a meteor reaches the Earth, it is called a meteorite and a series of meteorites, when encountered at once, is termed a meteor shower. According to NASA, over 30 meteor showers occur annually and are observable from the Earth.
- As meteors fall towards the Earth, the resistance makes the space rocks extremely hot and, as meteorites pass through the atmosphere, they leave behind streaks of glowing gas that are visible to the observers and not the rock itself.

Why is the Geminid meteor shower considered to be the best of the year?

- The Geminids meteor showers are unique because their origin does not lie in a comet, but what is believed to be an asteroid or an extinct comet. The Geminids emerge from 3200 Phaethon, which meteor scientists consider to be an asteroid.
- Discovered on October 11, 1983, the asteroid is over 5 km in diameter and was named after the Greek myth of Phaethon, the son of Sun god Helios.

Norwegian Institute of Bioeconomy Research signs Memorandum of Understanding (MoU) with cGanga (think-tank of NMCG) for development of sludge management framework in India

Context:

- Recently, during the meeting of India Water Impact Summit 2020, Norwegian Institute of Bioeconomy Research India's cGanga and signed Memorandum of Understanding for development of sludge management framework in India.

Highlights from the meeting:

- India does not have a shortage of water but we need to improve water management and explained several initiatives in waste water management & need to develop further business modules by cGanga Norwegian Counterpart.
- NMCG is trying to promote organic farming, natural farming and zero budget farming. Organic farming has been scaled up multi-fold this year with Uttarakhand having 50,000 Ha. under organic farming from 1000 Ha earlier and Uttar Pradesh is having more than 35,000 Ha integrated organic farming projects.

Did you know?

What is sludge?

- Sludge is mostly water with lesser amounts of solid material removed from liquid sewage. Primary sludge includes settleable solids removed during primary treatment in primary clarifiers.
- Sewage sludge treatment describes the processes used to manage and dispose of sewage sludge produced during sewage treatment.

Additional Information:

About Norwegian Institute of Bioeconomy Research

- NIBIO is one of the largest research institutes in Norway with approximately 700 employees. We contribute to food security and safety, sustainable resource management, innovation and value creation through research and knowledge production

What is cGanga?

- The Centre for Ganga River Basin Management and Studies (cGanga) was established at the Indian Institute of Technology, Kanpur (IITK) in 2016. The Centre is a Centre of Excellence for data collection, the creation and dissemination of knowledge and information for the sustainable development of Ganga River Basin.

About India Water Impact Summit 2020:

- India Water Impact 2020 is a five-day long summit, hosting experts and academicians from all over the world to discuss and debate issues related to water conservation, water security and river rejuvenation. The event is co-organised by National Mission for Clean Ganga and Centre for Ganga River Basin Management and Studies.