

# News Analysis (08 Jan, 2020)

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# Scientific Social Responsibility Policy

# Why in News

107th Indian Science Congress considered the importance of communication and **community outreach programmes** to make people aware of scientific research.

The Department of Science and Technology also mentioned about the **Centre's policy** on implementing Scientific Social Responsibility (SSR).

# Scientific Social Responsibility

#### • Definition:

- Scientific Social Responsibility (SSR) is the confluence of scientific knowledge with visionary leadership and social conscience.
- It is about building synergies among all stakeholders in scientific knowledge community and also about developing linkages between science and society.

#### Need:

- The SSR policy will facilitate easy access to resources and knowledge about the investments and impacts of Science and Technology (S&T) on society.
- It would inculcate moral responsibility amongst the scientific community which may trigger social entrepreneurship and start-ups impacting S&T ecosystem and society.

## • Objectives:

- It aims to harness the voluntary potential in the country's scientific community to strengthen science and society linkages.
- This primarily involves bridging science-society, science-science and societyscience gaps, thereby bringing trust, partnership and responsibility of science at an accelerated peace towards achieving social goals.

### • SSR Policy:

- Under the programme, researchers who are working on a science project funded by any of the Ministries under the Central government will have to undertake activities to popularise science and make it more accessible to the public.
- It will include a range of activities like delivering lectures in educational institutes, writing an article in a magazine or doing something beyond the curriculum.
- The science outreach would be mandatory and researchers had to include this as part of their outcome report.
- Soon the government will list activities that could be taken up under the Scientific Social Responsibility programme that was similar to <u>Corporate Social</u> <u>Responsibility</u> (CSR).

#### Source:TH

# 'Statement on Climate of India during 2019'

# Why in News

The India Meteorological Department (IMD) has released the 'Statement on Climate of India during 2019'.

# **Key Findings**

**Deaths due to weather extremes:** 2019 was a year of extremes – heat, cold, rain, and cyclones for India, killing a total of 1,562 people. Last year, the total number of deaths caused due to similar weather vagaries was 1,428.

The state-wise death toll caused due to various extreme weather events: Maharashtra (231), Jharkhand (138), Uttar Pradesh (135), Rajasthan (94), Kerala (86), Odisha (64), Jammu and Kashmir, Ladakh (51), Karnataka (43), Himachal Pradesh (27) and Madhya Pradesh (24).

Killer extreme weather of 2019	
Cause	Number of deaths
Heavy rain, floods	849
Heatwave	349
Thunderstorm	210
Lightning	75
Snow avalanche	51
Coldwave	28
Total	1,562

• **Rainfall:** The rainfall amounts during both the southwest monsoon (June to September) and **northeast monsoon** (October to December) remained 109% of the Long Period Average (LPA). That is, the country recorded excess rainfall during the entire year, making it an extremely wet year in recent times, when both monsoons reported above normal rain for the seasons.

Long Period Average is a 50 year average of India's monsoon rains. The current LPA is 89 cm, based on the average rainfall over the years 1951 and 2000.

### • Rise in Temperature

- The mean temperatures remained 0.36 degrees above normal, making 2019 the seventh hottest year ever recorded.
- The decade 2011 2019 remained the warmest on record for the country, when the annual mean temperature remained 0.36 degree above normal.
- Since 1901, India has warmed by 1 degree Celsius. Whereas, the minimum temperature was 0.22 degrees in the century.

- **Number of Cyclones:** 2019 was exceptional for the number of cyclones that hit India's east and west coasts.
  - Previously, similar cyclonic activity was reported in the Indian Ocean only during 1893, 1926, 1930, and 1976. During these years, cyclones formed both in the Arabian Sea and the Bay of Bengal put together numbered to ten in a calendar year.
  - Notably, an active Arabian Sea saw more cyclonic storms than the Bay of Bengal during 2019. It was only for the second time in 117 years that the Arabian Sea saw such intense and frequent cyclones.

  - The Bay of Bengal sees an average of five cyclones each year, making 2019 a year when the Arabian Sea dominated.

#### • Coldest Winter

- The winter of 2018-2019 was one of the coldest in the northern hemisphere.
- Jammu and Kashmir, Ladakh reported 51 deaths triggered by snow avalanche in 2019.

## **India Meteorological Department**

- IMD was established in 1875.
- It is an agency of the Ministry of Earth Sciences of the Government of India.
- It is the principal agency responsible for meteorological observations, weather forecasting and seismology

## Source: IE