



Council of Scientific and Industrial Research

Why in News

Recently, the Prime Minister chaired a meeting of the [Council of Scientific and Industrial Research \(CSIR\) Society](#) through video conference.

- Earlier [CSIR Floriculture Mission](#) was approved for implementation in 21 States and Union Territories of India.
- It is also planning to [undertake genome sequencing](#) of a sample of nearly 1000 Indian **rural youth to determine unique genetic traits, susceptibility (and resilience) to disease.**

Key Points

- **About:**
 - It is the **largest research and development (R&D) organisation in India.** It has a **pan-India presence** and has a dynamic network of **37 national laboratories, 39 outreach centres, 3 Innovation Complexes and 5 units.**
 - It is **ranked 37th among 1587 government institutions worldwide** and is the only Indian organization among the top 100 global government institutions, according to the **Scimago Institutions Ranking World Report 2021.**
 - CSIR holds the **7th rank in Asia and leads the country at the first position.**
 - The **Prime Minister** is the **President** (Ex-officio) and the **Union Minister of Science and Technology** is the **Vice President** (Ex-officio).
- **Funding:**
 - CSIR is funded by the **Ministry of Science and Technology** and it operates as an autonomous body through the [Societies Registration Act, 1860.](#)
- **Established:**
 - September 1942.
- **Located:**
 - New Delhi.
- **Objectives:**
 - **Scientific and industrial/applied research of national importance.** It covers a wide spectrum of streams such as: Radio and space physics, oceanography, [biotechnology](#), [nanotechnology](#), information technology, etc.
 - It **provides significant technological intervention** in many areas with regard to societal efforts which include the environment, health, drinking water, food, housing, energy, farm and non-farm sectors.
- **Some Initiatives:**
 - **Covid-19:**

- CSIR has set up **five technology verticals** for addressing the emerging situation due to **pandemic**:
 - Digital and Molecular Surveillance.
 - Rapid and Economical Diagnostics.
 - Repurposing of Drugs, Vaccine and Convalescent Plasma Therapy.
 - Hospital Assistive Devices and PPEs (Personal Protective Equipment).
 - Supply Chain and Logistics Support Systems.
- **Strategic:**
 - **Head-Up-Display (HUD):** It developed indigenous Head-Up- display (HUD) for Indian Light Combat Aircraft, [Tejas](#). HUD **aids the pilot in flying the aircraft and in critical flight maneuvers including weapon aiming.**
- **Energy & Environment:**
 - [Solar Tree](#): It occupies **minimum space to produce clean power.**
 - [Lithium Ion Battery](#): India's **first lithium ion battery fabrication facility** based on indigenous novel materials for making 4.0 V/14 h standard cells has been established.
- **Agriculture:**
 - **Samba Mahsuri Rice Variety:** It developed a **Bacterial Blight Resistant Rice.**
 - **Rice Cultivar (Muktashree):** A rice variety has been developed which **restricts assimilation of Arsenic within permissible limits.**
 - **White-fly resistant Cotton variety:** Developed a **transgenic cotton line** which is resistant to whiteflies.
- **Healthcare:**
 - **Genomics and other omics technologies for Enabling Medical Decision - GOMED:** It has been developed by the CSIR which provides a platform of disease genomics to solve clinical problems.
- **Food & Nutrition:**
 - **Ksheer-scanner:** It detects the **level of milk adulteration** and adulterants in 45 seconds at the cost of 10 paise.
 - **Double-Fortified Salt:** Salt **fortified with iodine and iron** having improved properties developed and tested for **addressing [anaemia](#) in people.**

[Source: PIB](#)

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