



News Analysis (17 Apr, 2020)

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## National Conference on Kharif Crops 2020

### Why in News

Recently, the Union Minister of Agriculture and Farmers' Welfare addressed the **National Conference on Kharif Crops 2020** through a video conference.

### Key Highlights of the Conference

- **Aims:**
  - To **discuss various issues and list out steps** in consultation with the States about preparedness for **Kharif** cultivation in view of the **lockdown** situation.
  - To take up **doubling of farmers' income in mission mode**.
  - To urge states to explain the **Pradhan Mantri Fasal Bima Yojana** and **Soil Health Card Scheme** to each farmer.
  - To **implement the Home Ministry exemptions and relaxations** for the Agricultural sector while ensuring **social distancing** and **social responsibility norms**.
  - To **start using the e-NAM (National Agriculture Market) extensively**.
- **Target of foodgrains production for the Financial Year 2020-21 has been fixed at 298.0 million tonnes.**
  - During the FY 2019-20, against the foodgrain production target of 291.10 million tonnes, higher production of about 292 million tonnes is anticipated due to **enhancement of area coverage** and **productivity of various crops**.
  - This was possible due to the **various technological advancements** including **varietal improvement** as well as **dedicated and coordinated efforts** of Central and State Governments in spite of the present situation of **climate change** along with **change in rainfall patterns**.

- The **cultivable/agriculture land has reduced by about 2.74 million hectare** during the last two decades.
  - However, during the same period the **Gross Cropped Area (GCA) has increased from 182.28 million hectare to 196.50 million hectare**, with net area sown remaining largely unchanged at 140 million hectare.
    - **Gross Cropped Area:** It represents the total area sown once as well as more than once in a particular year. When the crop is sown on a piece of land for twice, the area is counted twice in GCA.
    - **Net Area Sown:** It represents the total area sown with crops. The area sown more than once in the same year is counted only once.
  - The **production of foodgrains has increased from 169.92 million tonnes to 284.96 million tonnes** in the corresponding period due to various technological and policy interventions.
- It was highlighted that the **agriculture and horticulture sector in the country have become a key driving element for economic development** in many States.
  - **India is the second largest producer of vegetables, after China.**
  - Although India has become food surplus, it still needs to accelerate the production and productivity of agriculture and horticulture sectors for ensuring food and nutritional security in the rural areas.
- The **major new initiatives** for increasing production of crops and income of the farmers were **appreciated**.
  - **“Per Drop More Crop”** under flagship **Pradhan Mantri Krishi Sinchayee Yojana** (PMKSY).
  - **Paramparagat Krishi Vikas Yojana** (PKVY).
  - **Pradhan Mantri Fasal Bima Yojana** (PMFBY).
  - e-NAM initiative.
  - **Pradhan Mantri Kisan Samman Nidhi** (PM-KISAN) Yojana.
  - **Pradhan Mantri Kisan Pension Yojana** (PM-KPY).
  - **Pradhan Mantri Annadata Aay Sanrakshan Abhiyan** (PM-AASHA).
- It was informed that **All India Agri Transport Call Centre** has been started to ensure that agriculture is not affected.
  - The call centre will **facilitate inter-state movement of perishables** in the current situation of lockdown due to the Covid-19 threat.
- For **Rabi crops**, all States will **ensure procurement at Village/Block levels** as farmers are not allowed to move out.
  - In addition, **steps are taken for Direct Marketing/purchasing of crop produce** from farmers.
- **Relaxation has been given for movement of trucks/ vehicles loaded with seeds and fertilizers** to ensure timely availability of such inputs at Village/Block levels across the country.

- The format of **State Action Plan (SAP)** for **advance planning and implementation** of the **National Food & Nutritional Security Mission (NF&NSM)** has been simplified.
  - NF&NSM is mainly a **mandate for production of foodgrains** and is **implemented on projectised mode through State Agriculture Departments** across the country.
  - **Project Monitoring Teams** at Central and State levels are guiding in formulation of SAPs and also monitoring through field visit and farmers' interaction.
  - **Geo-tagging of various interventions** are also undertaken to **ensure transparency** in the programme implementation.

| S. No | Cropping Season | Time Period  | Crops  | States   |
|-------|-----------------|--|--|--|
| 1.    | Rabi            | Sown:<br>October-December<br>Harvested:<br>April-June          | Wheat, barley, peas, gram, mustard etc.  | Punjab, Haryana, Himachal Pradesh, Jammu and Kashmir, Uttarakhand and Uttar Pradesh                          |
| 2.    | Kharif          | Sown:<br>June-July<br>Harvested:<br>September-October          | Rice, maize, jowar, bajra, tur, moong, urad, cotton, jute, groundnut, soybean etc. | Assam, West Bengal, coastal regions of Odisha, Andhra Pradesh, Telangana, Tamil Nadu, Kerala and Maharashtra |
| 3.    | Zaid            | Sown and harvested:<br>March-July<br>(between Rabi and Kharif) | Seasonal fruits, vegetables, fodder crops etc.                                     | Most of the northern and northwestern states   |

**Source: PIB**

# Sovereign Gold Bonds

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## Why in News

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The Government of India (GoI), in consultation with the **Reserve Bank of India (RBI)**, has decided to issue **Sovereign Gold Bonds (SGBs)** in six installments, from April 2020 to September 2020.

This series of government-run gold bonds - the Sovereign Gold Bond 2020-21 scheme - comes at a time when the **rapid spread of the deadly coronavirus (Covid-19)** has **disturbed the financial markets** around the globe, **but increased the appeal of the yellow metal (gold) as a safe-haven.**

## Key Points

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- **Sovereign gold bonds**
  - Sovereign gold bonds are **issued by the RBI on behalf of the government.** They are **government securities denominated in grams of gold.** They are **substitutes for holding physical gold.**
  - The sovereign gold bond scheme was launched in November 2015. Its objective is to reduce the demand for physical gold and shift a part of the domestic savings (used for the purchase of gold) into financial savings.
  - **Buy and Sale:** Investors have to pay the issue price in cash and the bonds will be redeemed (bought back by the issuer) in cash on maturity.
    - Issue price is the price at which bonds are offered for sale when they first become available to the public.
  - Apart from having a chance to gain from the **rise in gold prices at the time of redemption (capital gain),** the investor gets a **fixed rate of interest** on the investment amount throughout the tenure of the fund.
    - The government will pay an interest at the rate of **2.5% per annum.** The interest is payable **semi-annually.**
  - **Tenure:** Sovereign gold bonds have a **tenure of eight years, with exit options are available from the fifth year.**
  - **Eligibility :**The Bonds will be restricted for sale to resident individuals, Hindu Undivided Families (HUFs), Trusts, Universities and Charitable Institutions.
    - The **minimum permissible investment unit is 1 gram of gold.**

- **Channels to buy bonds:**
  - Investors can buy these bonds through **designated scheduled commercial banks (except Small Finance Banks and Payment Banks), Stock Holding Corporation of India Limited, and designated post offices.**
  - One can also buy these bonds through **National Stock Exchange of India Limited and Bombay Stock Exchange(BSE) Limited.**
- **Advantages of investing in gold bond:**
  - For investors it is advisable to invest in gold for portfolio diversification.
  - Sovereign gold bonds are considered one of the better ways of investing in gold as **along with capital appreciation an investor gets a fixed rate of interest.**
  - Apart from this, it is **tax efficient as no capital gains is charged in case of redemption on maturity.**
  - Sovereign gold bonds are a good way to ensure an investment that does **not need physical storage of gold.**
- **Disadvantages of sovereign gold bonds**
  - This is a **long term investment unlike physical gold which can be sold immediately.**
  - Sovereign gold bonds are listed on exchange but the **trading volumes are not high, therefore it will be difficult to exit before maturity.**

Source : Mint

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## Zoom- Not a Safe Platform: MHA

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### Why in News

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Recently, the **Ministry of Home Affairs** (MHA) has issued an advisory that **Zoom video conference** is not a safe platform.

The **Indian Cyber Crime Coordination Centre (I4C)** of the MHA issued a set of guidelines for the safe usage of Zoom by private individuals.

### Key Points

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- Zoom has seen an **exponential rise in usage in India** as office-goers remain at home due to the **lockdown**, imposed to curb the **Covid-19** pandemic.
  - Over 90,000 schools across 20 countries have started using it regularly.
  - The **maximum number of daily meeting participants** of approximately 10 million at the end of December 2019 **grew to more than 200 million daily** meeting participants in March.
  - It has been used extensively by everyone **including the central and state ministers** for official purposes and conducting meetings.
- Zoom is a **US-based video communication and videoconferencing platform**.
  - This **Silicon Valley-based company** appears to own three companies in China through which at least 700 employees were paid to develop Zoom's software.
  - This **arrangement is apparently an effort at labor arbitrage** in which Zoom can avoid paying US wages while selling to US customers, thus **increasing their profit margin**.
  - However, this arrangement may make Zoom **responsive to pressure from Chinese authorities**.
  - Reportedly, **few calls made through the app are routed through servers in China**.
- Earlier, the **Computer Emergency Response Team, India (CERT-In)** had also issued advisories cautioning on the use of Zoom for office meetings.
  - It **warned that the insecure usage of the platform** may allow **cyber criminals to access sensitive information** such as meeting details and conversations giving rise to **cyber frauds**.
  - It also **highlighted multiple vulnerabilities** which could allow an attacker to gain elevated privileges or obtain sensitive information.
- **Citizen Lab**, based at the **University of Toronto**, found **significant weakness in Zoom's encryption** that protects meetings.
  - It identified the **transmission of meeting encryption keys through China**.
  - The lab has **raised two primary concerns- geo-fencing and meeting encryption**.
- **Zoom Founder and CEO Eric S Yuan** has apologised and assured the people that the **privacy and security expectations would be taken care of**.
  - Zoom has **added additional features** such as **placing a new security icon** in the meeting controls, **changing Zoom's default settings** and **enhancing meeting password complexity**, among others.
  - It has also added that soon, **account admins will have the ability to choose** whether or not their data is routed through specific data center regions.

- **Suggestions by the Ministry**

- The users are suggested to **set strong passwords** and **enable “waiting room” features** so that call managers could have better control over the participants.
- Users should also **avoid using personal meeting ID** to host events and instead **use randomly generated meeting IDs** for each event.
- People using the app **should not share meeting links on public platforms.**

### **Indian Cyber Crime Coordination Centre**

- The scheme to set up I4C was **approved in October 2018, to deal with all types of cybercrimes in a comprehensive and coordinated manner.**
- It has **seven components:**
  - National Cyber Crime Threat Analytics Unit
  - National Cyber Crime Reporting Portal
  - National Cyber Crime Training Centre
  - Cyber Crime Ecosystem Management Unit
  - National Cyber Crime Research and Innovation Centre
  - National Cyber Crime Forensic Laboratory Ecosystem
  - Platform for Joint Cyber Crime Investigation Team.
- Various States and Union Territories (UTs) have consented to set up **Regional Cyber Crime Coordination Centres.**
- This **state-of-the-art** Centre is located in **New Delhi.**

### **Computer Emergency Response Team-India**

- It is an organisation of the **Ministry of Electronics and Information Technology, Government of India, with the objective of securing Indian cyberspace.**
- It is the **nodal agency** which deals with **cybersecurity threats like hacking and phishing.**
- It collects, analyses and disseminates information on cyber incidents, and also issues alerts on cybersecurity incidents.
- CERT-IN provides **Incident Prevention and Response Services** as well as **Security Quality Management Services.**

**Source: TH**

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## **Portable Sensor for Heavy Metal Detection in Water**

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### **Why in News**

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Recently, the **Centre for Nano and Soft Matter Sciences (CeNS)** has developed a **compact solid-state sensor** to **detect the heavy metal ions in water.**

It is a **portable** device which can help onsite detection in remote areas.

## Key Points

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- The compact solid-state sensor can detect the heavy metal ions like **lead ions (Pb<sup>2+</sup>) down to 0.4 parts per billion (ppb)**.
- **Mechanism:**
  - A sensor film was prepared by **forming a composite** between **manganese doped zinc sulfide quantum dots** and **reduced graphene oxide on a glass substrate**.
  - These particular quantum dots are **water-soluble** and have **high photoluminescence (~30%) quantum yield**, making them suitable for **luminescence-based sensing**.

Luminescence is emission of light by certain materials when they are relatively cool. It may be seen in neon and fluorescent lamps.
  - These quantum dots can be **excited with handheld UV (ultra-violet) light of 254 nm, thus making them portable** even to remote areas.

Excitation, in physics, refers to the addition of a discrete amount of energy (called excitation energy) to a system—such as an atom, or a molecule—that results in its alteration, ordinarily from the condition of lowest energy (ground state) to one of higher energy (excited state).
  - If a **drop of water containing heavy metal ions** such as **mercury (Hg), lead (Pb), cadmium (Cd)**, etc. are **added to the composite film**, the **emission of the film extinguishes within seconds**.
- The development of efficient and portable sensors for rapid onsite detection of heavy metal ions becomes important due to the **health hazards associated with them**.
  - Heavy metal ions pose severe potential threats to living beings (kidney damage, bone fractures, etc.).
  - They can be **accumulated in the body easily and cannot be detoxified** by any chemical or biological processes.
- This study demonstrates the easy detection of heavy metal ions in water. However, **strategies are being developed to improve the selectivity of the detection**.

## Centre for Nano and Soft Matter Sciences

- It is an **autonomous research institute** under the **Department of Science and Technology (DST)**, Government of India.
- DST provides **core support** to the Centre in the form of a **grant-in-aid for conducting basic and applied research** in nano and soft matter sciences.
- CeNS is located at **Jalahalli, Bengaluru**.
- It is being mentored by **Nano-Mission** of the Government of India.



- It is **engaged in materials research** at all relevant length scales.  
The current activities are focussed on a variety of metal and semiconductor nanostructures, liquid crystals, gels, membranes and hybrid materials.
- The Centre was **established in 1991** by an **eminent liquid crystal scientist, Prof. S. Chandrasekhar, FRS**. After years of expansion and name changes, in **2014**, it became the **Centre for Nano and Soft Matter Sciences (CeNS)**.

## Nano Mission

- It was **launched in 2007** as an **umbrella capacity-building programme** by the Government of India.
- It is being implemented by the **Department of Science and Technology**.
- **Objectives:**
  - Basic research promotion.
  - Infrastructure development.
  - Nano applications and technology development.
  - Human Resource development.
  - International collaborations.
- The Nano Mission has established national dialogues to promote R&D in the development of standards for nanotechnology and for laying down a **National Regulatory Framework Road-Map for Nanotechnology (NRFR-Nanotech)**.

**Source: PIB**

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## Seismic Noise

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### Why in News

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Scientists at the British Geological Survey (BGS) have reported a change in the **Earth's seismic noise and vibrations** amid the coronavirus lockdown.

These findings have come two weeks after seismologists at the Royal Observatory in Belgium observed a 30-50% fall in levels of seismic noise since schools and businesses were closed in mid-March.

### Key Points

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- **Seismic noise**

- In geology (study of rocks), **seismic noise refers to the relatively persistent vibration of the ground** due to a multitude of causes.
- This noise includes vibrations caused due to **human activity**, such as transport and manufacturing.
- Scientists first observed this seismic noise — everything recorded on seismograms that cannot be attributed to earthquakes — at the end of the 19<sup>th</sup> century.
- It is the **unwanted component of signals recorded by a seismometer** and makes it difficult for scientists to study seismic data that is more valuable.
- Apart from geology, seismic noise is also studied in other fields such as oil exploration, hydrology, and earthquake engineering.

- **Benefits of reduction in seismic noise**

- Usually, to measure seismic activity accurately and reduce the effect of seismic noise, geologists **place their detectors 100 metres below the Earth's surface**.  
Because, the **seismic noise vibrations caused by human activity are of high frequency** (between 1-100 Hz), and travel through the Earth's surface layers.
- However, **since the lockdown**, researchers have said that **they were able to study natural vibrations even from surface readings**, owing to lesser seismic noise.
- Due to lower noise levels, scientists are now hoping that **they would be able to detect smaller earthquakes and tremors** that had slipped past their instruments so far.

## Seismometer

- Seismometer is the **scientific instrument that records ground motions**, such as those **caused by earthquakes, volcanic eruptions, and explosions**.
- These are incredibly **sensitive** so they also pick up other sources of vibration too, including human activity, such as road traffic, machinery and even people walking past.

## Source: IE

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# Inactivated Virus Vaccine in Focus for Covid-19

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## Why in News

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Recently, researchers from the **Centre for Cellular and Molecular Biology (CCMB)** have started developing an **inactivated virus vaccine** for the **novel coronavirus** (SARS-CoV-2).

## Key Points

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- Vaccination is thought to be the most effective and sure way to arrest the progress and deadly effect of the virus.
- Inactivated vaccines are known for their safety and easy production.
- **Inactivated Vaccines**
  - **Active pathogens are grown** in large numbers and **then killed** either by a chemical or heat. Although the pathogen is killed, or made to lose its reproduction capacity, **various parts of the pathogen are intact**. E.g The antigen (the chemical structure) that is recognised by the immune system is left unimpaired.
  - When this dead microbe is introduced in the body, **the immune system is tricked to respond by producing antibodies** against specific antigens still left intact, without knowing that the pathogen is defective.
  - As the pathogen is dead, it cannot reproduce nor cause even a mild disease. Thus, it is safe to administer to even people with lesser immunity, like the old and those who have comorbidity.
  - Inactivated **polio vaccine and the rabies vaccine** are made this way.
- **Benefit:** If a **large amount of coronavirus is grown and inactivated**, that will be material for candidate vaccines to be injected.
- **Challenges:** The important technological challenge is **growing the coronavirus outside of the human host**.

As the novel coronavirus has evolved to life on human cells, locating the **right source of the cell line to grow the virus outside of the human body** is key to this technology.
- CCMB is using the **epithelial cell line from African green monkeys** to artificially grow and harvest the deadly virus.
- The cells will be observed and if **the cells show changes, including dying of cells and release of the virus, then the culture is positive**.
- Finding a right cell growing technology for the novel coronavirus **will also help in drug development**.

## Other Types of Vaccine

### Live-attenuated vaccines

- Live vaccines use a **weakened (or attenuated) form of the germ** that causes a disease.
- Because these vaccines are so **similar to the natural infection** that they help prevent, they create a strong and long-lasting immune response.

Just one or two doses of most live vaccines can give you a lifetime of protection against a germ and the disease it causes.

- The limitation of this approach is that these vaccines usually **cannot be given to people with weakened immune systems**
- Live vaccines are used against: **Measles, mumps, rubella** (MMR combined vaccine), **Rotavirus, Smallpox** among others.

### **Subunit, recombinant, polysaccharide, and conjugate vaccines**

- They use **specific pieces of the germ** — like its protein, sugar, or capsid (a casing around the germ). They give a very strong immune response.
- They can also be used on people with weakened immune systems and long-term health problems.
- These vaccines are used to protect against: **Hib** (Haemophilus influenzae type b) disease, **Hepatitis B, HPV** (Human papillomavirus), **Pneumococcal disease** among others.
- **Toxoid vaccines**
- Toxoid vaccines use a toxin made by the germ that causes a disease. Toxoid vaccines are used to protect against: Diphtheria, Tetanus

**Source: PIB**

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## Chitra GeneLAMP-N for Covid-19 Test

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### Why in News

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**Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Trivandrum (Kerala), has developed a diagnostic test kit that can confirm Covid-19 in 2 hours at low cost.**

SCTIMST is an Institute of National Importance under the **Department of Science and Technology (DST)**.

### Key Points

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- The test kit, funded by the DST called **Chitra GeneLAMP-N**, is highly specific for **SARS-CoV-2 N-gene** and can **detect two regions of the gene**.  
This would ensure that the test does not fail even if one region of the viral gene undergoes mutation during its current spread.
- It is a confirmatory diagnostic test, which detects the N Gene of SARS- COV2 using **reverse transcriptase loop-mediated amplification of viral nucleic acid (RT-LAMP)**.

- The results can be read from the machine from the **change in fluorescence**.  
Fluorescence is the **emission of light by a substance** that has absorbed light or other electromagnetic radiation.
- The tests performed at National Institute of Virology (NIV), Alappuzha (Kerala) (authorized by **Indian Council of Medical Research (ICMR)**) show that Chitra GeneLAMP- N has **100% accuracy** and match with test results using **Reverse Transcription Polymerase Chain Reaction (RT-PCR)**.
- This has been intimated to Indian Council of Medical Research (ICMR), the authority to approve it, for Covid-19 testing in India, following which License needs to be obtained from **Central Drugs Standard Control Organisation (CDSCO)** for manufacture.
- **Advantages**
  - A total of 30 samples can be tested in a single batch in a single machine allowing a **large number of samples to be tested each day**.
  - Current **Polymerase Chain Reaction (PCR)** kits in India enable detection of E gene for screening and RdRp gene for confirmation. Chitra GeneLAMP-N gene testing will allow confirmation in one test **without the need for a screening test and at much lower costs** (less than Rs. 1000/test).
  - Chitra GeneLAMP-N makes confirmatory tests results of Covid-19 possible in 2 hours.  
The detection time is 10 minutes, and the sample to result time (from RNA extraction in swab to RT-LAMP detection time) **will be less than 2 hours**.
  - The testing facility can be **easily set up** even in the laboratories of district hospitals with **limited facilities and trained laboratory technicians**.

## Gene

- Gene, unit of **hereditary information**.
- Genes achieve their effects by directing the **synthesis of proteins**.
- Genes are composed of **Deoxyribonucleic acid (DNA)**, except in some viruses, which have genes consisting of a closely related compound called **Ribonucleic acid (RNA)**.

## Reverse Transcription-based Loop Mediated Isothermal Amplification (RT-LAMP)

- It is a simple **quantitative detection method**.
- In this method, a **DNA copy of the viral RNA is generated** by reverse transcriptase, and then **isothermal amplification is carried out to increase the amount of total DNA**.
  - A reverse transcriptase (RT) is an enzyme used to generate complementary DNA (DNA) from an RNA template, a process termed reverse transcription.
  - Isothermal amplification enables rapid and specific amplification of DNA at constant temperature (60-65 °C).

**Source : PIB**

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# AI-based Voice Tool to Detect Covid-19

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## Why in News

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A University in Rome (Italy) is conducting a pilot run for a patented **Artificial Intelligence (AI)-based tool** developed by students and a professor from Mumbai, which they claim **can test Covid-19 through voice-based diagnosis using a smartphone.**

## Key Points

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- The tool has already been tested on 300 individuals and has detected Covid-19 patients with **98% accuracy.**
- The tool is based on a voice-based diagnosis through an app. It can **find coronavirus from the tone of the voice.**
- As someone speaks to the microphone on the app, the **tool breaks down the voice in multiple parameters** such as frequency and noise distortion.
- These values are then **compared to a normal person's values** and the patented technique then determines if the patient is positive or not.
- Each human voice has 6,300 parameters, and **only a few units, less than a dozen, specifically characterise individuals.** The human ear, apart from colds, is not able to distinguish them, but artificial intelligence does.
- Each one of an individual's internal organs is **sort of a resonator, so if anyone has a problem with lungs or heart, this will be reflected in his/her voice.**
- The current novel coronavirus cases could be detected this way.

## Benefits of the voice-based diagnosis tool

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- This tool can be of great impact in doing the **first level of screening to identify positives** and **only those who tested positive can go for the lab tests.**
- This can **reduce the current bottleneck on the medical infrastructure,** and help the government to **identify hotspot regions** in advance.
- It is possibly the **best way to reach out to the remotest part of India** by testing through a smartphone, **without the risk of exposure, both to the patient and the lab personnel.**
- This voice-based diagnosis will fetch **zero cost** testing to the patient and no wait time.

## Artificial Intelligence (AI)

- It describes the **action of machines accomplishing tasks** that have **historically required human intelligence.**

- It **includes technologies** like machine learning, pattern recognition, big data, neural networks, self algorithms etc.
- AI involves complex things such as feeding a particular data into the machine and making it react as per the different situations. It is basically about creating self-learning patterns where the machine can give answers to the never answered questions like a human would ever do.
- AI technology helps in analyzing data and thus can improve the efficiency of the systems like power management in cars, mobile devices, weather predictions, video and image analysis.
- **Example (Use):** Self driving cars.

**Source: TH**

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## RBI's Quarterly Survey on Manufacturing Sector

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### Why in News

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The **Reserve Bank of India (RBI)** has launched the 49<sup>th</sup> round of quarterly **Order Books, Inventories and Capacity Utilisation Survey (OBICUS)** of the **manufacturing sector**.

The latest round has a **reference period** as **January-March 2020**.

### Key Points

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- The RBI has been conducting the **OBICUS of the manufacturing sector** on a quarterly basis **since 2008**.
- The survey represents the **movements in actual data on order books, inventory levels of raw materials and finished goods and capacity utilization**.
  - Inventory is the amount of goods held by a company.
  - Capacity utilization refers to the manufacturing and production capabilities that are being utilized by a nation or enterprise.
- The survey also gives out the **ratio of total inventories to sales** and **ratio of raw material (RM) and finished goods (FG) inventories to sales in percentages**.
- These are considered as important indicators to **measure economic activity, inflationary pressures and the overall business cycle**.
- **Trend analysis** is calculated for the survey based on quantitative data received from companies regarding new orders, backlog orders at the beginning of the quarter, pending orders at the end of the quarter.
- The survey provides valuable **input for monetary policy formulation**.
- The company level data collected during the survey are treated as **confidential and never disclosed**.

- In the 48<sup>th</sup> round of the OBICUS for the quarter October-December 2019 as many as **704 manufacturing companies were covered**. As per the survey:
  - Capacity Utilisation (CU) had declined to 68.6% in the third quarter of 2019-20 from 69.1% in the previous second quarter.
  - Also, orders received in the third quarter(Q3:2019-20) were lower compared with the previous second quarter as well as with the level of 2018-19.

**Source : BS**

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