

## EVERYDAY CURRENT AFFAIRS – APRIL 3, 2020

### TAMIL NADU

- **Tamil Nadu - has now registered the second highest number of Covid-19 positive cases in the country – 309, of whom 264 are from the Tablighi Jamaat (TJ) cluster.**
- ✓ On April 2, another 74 cases have been reported as positive from the TJ cluster in the state

Samples tested	<b>3,272</b>
Samples positive	<b>309</b>
Samples pending	<b>404</b>
Participants of Delhi meet	<b>1,103</b>
Delhi meet +ve cases	<b>264</b>
Functioning COVID -19 testing facilities in Tamil Nadu   <b>17 (11 Govt +6 Private)</b>	

- ✓ Twenty of the 74 TJ delegates, who tested positive on April 2, hail from Chennai.
- ✓ Two of the 1,500 people from the state who attended the March 21-23 TJ congregation at a Nizamuddin mosque have died in Delhi and the condition of a third is critical.
- ✓ Overall, Chennai topped the TJ infected persons list with 46 patients, followed by Erode (32) and Tirunelveli (30) as on April 2.

## COVID-19 in T.N. | A tracker, across parameters, on how the pandemic has impacted the State so far

	Until March 26	March 27	March 28	March 29	March 30	March 31	April 1	April 2	Total
Cases reported	29	9	4	8	17	57	110	75	309
Recovered and discharged	1	1	0	3	1	0	0	1	7
Deceased	1	0	0	0	0	0	0	0	1

### Monitoring\*

Persons screened at airports	2,10,538
Persons under home quarantine#	86,342
Persons in isolation wards in hospitals	1,335
Persons in quarantine facilities	90

### Capacity\*

Beds in isolation wards	22,049
Ventilators	3,371

### Testing\*

Samples collected	3,272
Tested positive	309
Tested negative	2,559
Under process	404

\*Status as on date; #Includes only Health and Family Welfare Department figures. People under home quarantine as per Bureau of Immigration advisory not included

- ✓ Samples of 1,103 people, who took part in the Delhi conference, were sent for testing.
- ✓ Among these, 264 tested positive while balance results are still pending
- ✓ The number of persons under home quarantine in T.N. is 86,342.
- ✓ The State had tested 3,272 samples so far and another 404 samples were under process.
- ✓ 90 persons were in quarantine centres and 1,335 persons were admitted to isolation wards of hospitals.
- **The State government - has announced special incentives to promote manufacture of COVID-19-related medical equipment and drugs.**
  - ✓ It will be applicable to manufacturers of equipment and drugs such as ventilators, personal protective equipment (PPE) kits, N-95 masks, multi para monitors, anti-malarial and anti-viral drugs in the state
  - ✓ The move is aimed in improving production and ensuring ample supply of medical equipment, protective gear and drugs in demand due to the Covid-19 outbreak
  - ✓ The incentives include 30% capital subsidy provided up to the investment of ₹20 crore made in eligible fixed assets.
    - ✓ This 30% capital subsidy will be disbursed in equal annual instalments over a period of five years.
  - ✓ Also, the investment made in manufacturing essential equipment including modifications/ upgradations carried out in existing lines will be considered.
  - ✓ To be eligible for the incentive, the manufacturing units should commence commercial production by July 31, 2020.
  - ✓ Moreover, 100% stamp duty waiver will also be provided to these units
  - ✓ Apart from this, 6% interest subvention will be provided for working capital loans availed from commercial banks or financial institutions for two quarters (till December 31, 2020) as well as through state-owned TIIC (Tamil Nadu Industrial Investment Corporation Ltd).

- ✓ The incentive package will be implemented by SIPCOT for large industries and IC&DIC for MSMEs
- ✓ The investors may begin manufacturing of these items and related activities without any prior approval mandated by state laws, including the approval from the directorate of town and country planning (DTCP).
  - ✓ Necessary permissions may be obtained after the commencement of production.
- ✓ State Industries Promotion Corporation of Tamil Nadu (Sipcot) and Small Industries Development Corporation Limited (Sidco) will offer necessary land/sheds on short term or long term leases on a priority basis.
- ✓ Also, MSMEs that manufacture medical equipment and drugs in helping the Covid-19 fight will be given priority under NEEDS, a scheme to promote entrepreneurship offered by the state government.
- ✓ Tamil Nadu Medical Services Corporation will buy at negotiated rates at least 50% of the essentials manufactured between May and July this year

## STATES

- **Haryana government - has prohibited the sale of chewing gum in the state till June 30**
- ✓ The move is aimed in preventing the transmission of coronavirus through spitting



- ✓ The state has also decided to implement for a year the ban on gutka (chewing tobacco) and pan masala, which was announced in September last year
- ✓ As Covid-19 transmits through droplets, the ban was promulgated to prevent the possibility of its transmission to another person by spitting of chewing gum/ bubble gum

## NATIONAL

- **Prime Minister Narendra Modi - held a 'virtual' meeting with state chief ministers through video conferencing on April 2 to review the coronavirus (COVID-19) situation in India**
- ✓ The interaction mainly focused on common lockdown exit strategy, reducing the Covid-19 mortality rate and continuing with testing and quarantining coronavirus patients.



- ✓ The meeting was attended by Chief Ministers of nine states.
- ✓ Home minister Amit Shah, Health minister Harsh Vardhan and Defence minister Rajnath Singh have also attended the interaction with the PM.

### **Highlights of the Meeting**

- ✓ The Prime Minister asserted that the common goal for the country was to ensure minimum loss of life
- ✓ In the next few weeks, testing, tracing, isolation and quarantine should remain the areas of focus, the PM urged the state CMs.
- ✓ The PM highlighted the necessity of maintaining supply of essential medical products, availability of raw materials for manufacture of medicines and medical equipment.
- ✓ He asked the states to set up crisis management groups at district level and appoint surveillance officers
- ✓ He said data must be taken from accredited labs for testing to ensure congruence in data of district, state and Centre
- ✓ The PM called for a staggered release of funds to beneficiaries under the PM Garib Kalyan Yojana to avoid excessive crowding at banks.
- ✓ He asked the CMs to recruit the volunteers of National Cadet Corps (NCC) and National Service Scheme (NSS) for fight against the Covid-19 pandemic.
- ✓ The Centre had already mentioned that it would release ₹11,000 crore from the State Disaster Relief Fund by this month, and it should be used for efforts to fight the COVID-19 pandemic.
- **The government - is likely to expand its testing strategy for Covid-19 to allow use of rapid antibody tests in symptomatic cases in “hotspot” areas**
- ✓ However, these results will still need to be confirmed by an RT-PCR test using throat or nasal swab to detect the presence of genetic material of the coronavirus.
- ✓ The rapid tests will be conducted on symptomatic cases and even those testing negative in antibody tests will be home quarantined
- ✓ A final decision on this strategy is expected by April 3

- ✓ The Indian Council of Medical Research (ICMR) issued an interim advisory on April 2 on the use of the rapid antibody test, also known as serology test

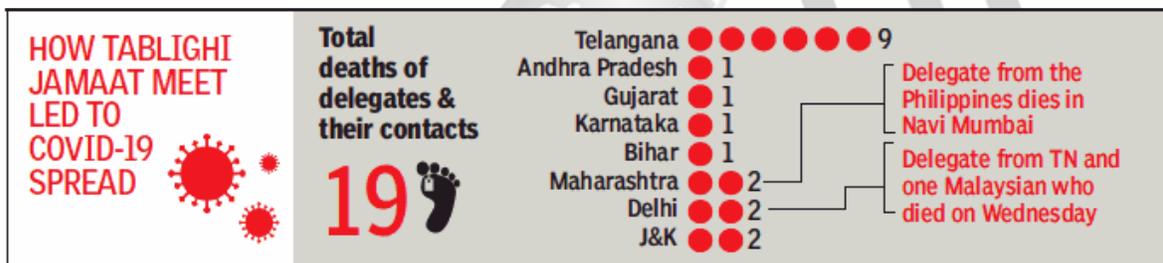
WHAT'S THE PLAN?	WHAT THE RESULTS TELL
<ul style="list-style-type: none"> <li>➤ Symptomatic population in Covid-19 hotspots may be tested using rapid antibody test</li> <li>➤ Positive test results to be confirmed by RT-PCR using throat/nasal swab</li> <li>➤ Those testing negative to be quarantined at home</li> </ul>	<ul style="list-style-type: none"> <li>➤ Unlike RT-PCR test, which looks for the virus itself, this test looks for antibodies produced by the body to fight the virus</li> <li>➤ Test result positive after 7-10 days of infection</li> <li>➤ Result remains positive for several weeks after infection</li> <li>➤ Positive result indicates exposure to SARS-CoV-2</li> <li>➤ Negative result does not rule out Covid-19 infection</li> <li>➤ Not a confirmatory test</li> </ul>
<p><b>RAPID ANTIBODY TEST:</b></p> <ul style="list-style-type: none"> <li>➤ Can be done on blood/serum/plasma samples</li> <li>➤ Test result within 30 mins</li> </ul>	

- ✓ Also, even those with “milder symptoms” in identified hotspots will be tested under the new protocol.
- ✓ The effort is to contain hotspots that can become centres of transmission of the disease
- ✓ The decision follows an increase in positive cases after the exodus of workers from cities to their villages and the recent spread of the infection through Tablighi Jamaat congregation in Delhi’s Nizamuddin locality.
- ✓ The health ministry’s surveillance department along with state governments has identified 61 hotspots with large number of cases and 10 high-risk zones with fewer cases but higher density of people.
- ✓ The decision was taken by the Empowered Group, one of the 11 formed to consider various aspects of the Covid-19 crisis, that is looking at disease surveillance, testing and availability of hospitals and isolation beds etc
- ✓ At present, symptomatic individuals who have undertaken international travel in the last 14 days, symptomatic contacts of positive Covid-19 cases and symptomatic healthcare workers are tested for the disease.
- ✓ Apart from this, on March 21, the government and ICMR revised its strategy to include all hospitalised patients of severe acute respiratory infection (SARI) for testing as well.
- **The nationwide coronavirus count, which had crossed 2,000 barely a day earlier - zoomed past 2,500 on April 2**
- ✓ Delhi (141), Maharashtra (88) and Tamil Nadu (75) reported huge number to take the tally above 2,500
- ✓ The number of COVID-19 cases in India has doubled in the past week, with 328 more cases and 12 deaths reported on April 2.
- ✓ At least eight Covid-19 deaths were reported, pushing the countrywide toll to 70.
- ✓ The health ministry has confirmed 2,069 cases and 54 deaths.

## CORONA COUNT CROSSES 2,500

Name of State / UT	Cases on Thursday	Total Cases	Recovered	Deaths
Maharashtra	88	423	35	20
Tamil Nadu	75	309	6	1
Delhi	141	293	5	4
Kerala	21	286	28	2
Telangana	27	149	17	9
Andhra Pradesh	38	149	2	
Rest of India	95	912	69	34
<b>Total</b>	<b>485</b>	<b>2,521</b>	<b>162</b>	<b>70</b>

- ✓ The increase of Covid-19 cases caused by the Tablighi Jamaat (TJ) event continued to unfold for the third consecutive day
- ✓ At least 295 delegates from across the country who had attended the religious congregation in Delhi's Nizamuddin last month, tested positive for the virus
- ✓ They have accounted for more than 60% of the 485 confirmed cases across India till around 11.45pm on April 2.

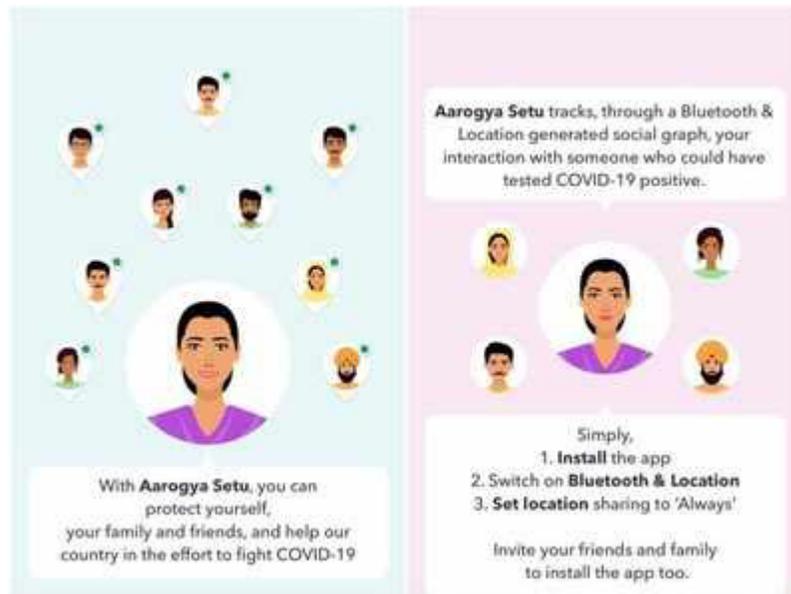


## TABLIGHI JAMAAT DELEGATES UNDER COVID-19 WATCH

State	Delegates	Tested	Untraced	Found positive	Quarantined/In isolation
Andhra Pradesh	746		87	70	659
Telangana	1,030		321	51	700
Tamil Nadu	1,500	658		190 (including foreigners and contacts of delegates)	
Karnataka	1,500	190		2 (including one delegate who died and his son)	250 (including 50 foreigners)
Maharashtra	450 (21 foreigners)			6 (including the Filipino who died in Navi Mumbai)	165
Uttar Pradesh	569		69	1	500
Kerala	300+				60
West Bengal	100+		16		54 (including 40 foreigners)
Chhattisgarh	101				32 quarantined, 69 isolation
Madhya Pradesh	109		2		101
Rajasthan	583				246
Assam	415		117	9 (including four who are in Delhi)	
Goa	Unknown				9
Odisha	20				20 (all with their families)
Gujarat	72				72

- ✓ Delhi led the tally on April 2 with 129 of the total 141 confirmed cases being linked to the Tablighi meet.

- ✓ This was followed by Tamil Nadu, Andhra Pradesh, Telangana and Karnataka which together accounted for 143 Tablighi delegates or their contacts testing positive.
- **The Centre - launched a new app, 'Aarogya Setu' on April 2, to track Covid-19 infection across the country more accurately and effectively.**



- ✓ The app is available on Google Play Store on Android smartphones and App Store for iPhones.
- ✓ The app is available in 11 languages.
- ✓ Unlike the other two apps, MyGov app and Corona Kavach, which are also COVID-19 tracking apps, Aarogya Setu is different in its features and functioning.
- ✓ It will help track infection by using mobile GPS system and Bluetooth
- ✓ It provides alert if you have been near a Covid-19 infected person within the 6 feet radius
- ✓ The app detects other devices with AarogyaSetu installed that come in the proximity of that phone.
- ✓ It then calculates the risk of infection based on sophisticated parameters if any of these contacts has tested positive.
- ✓ It can be installed in a smartphone through an easy and user-friendly process
- ✓ The mobile application was developed by the National Informatics Centre, which comes under the ministry of electronics and information technology
- **The government – has decided to use the services of National Cadet Corps (NCC) and ex-servicemen to aid state civil administrations in the fight against the coronavirus outbreak in the country.**



- ✓ On April 2, 2020, the National Cadet Corps (NCC) launched “Exercise NCC Yogdan” to offer a helping hand to the authorities fighting against COVID-19.
  - ✓ As part of the Exercise, around 25,000 senior division NCC volunteer cadets above 18 years of age will help state administrations
  - ✓ They will help in handling helplines and call centres, distribution of medicines, food and other essential commodities, data and traffic management.
  - ✓ To use their services, the state governments or district administrations will have to send the requisition through state NCC directorates
  - ✓ NCC, which operates under the defence ministry, is the country’s largest uniformed youth organization with around 15 lakh cadets
  - ✓ Similarly, MoD has also taken the initiative to mobilise services of ex-servicemen to assist state and district authorities
  - ✓ The volunteers in the ex-servicemen community will be employed in public outreach activities such as contact tracing, community surveillance, management of quarantine facilities or other such tasks
  - ✓ The states of Punjab, Chhattisgarh and Uttarakhand have already started using the ex-servicemen for various activities
- **The government - has amended the insurance law to provide relief to vehicle owners and health policyholders who cannot renew their covers due to the Covid-19 lockdown**
- ✓ In a gazette notification, the finance ministry relaxed Section 64VB of the Insurance Act, 1938, which bars insurers from providing cover until receipt of premium.
  - ✓ The notification allows motor third-party and health insurance policies that expire during the lockdown (lapsed/expired over March 25-April 15, 2020) but are renewed up to April 21, 2020 to be treated as ‘continuous covers’.
  - ✓ In motor insurance, the continuity benefit is provided only for third-party cover
  - ✓ It does not extend to ‘own-damage’ of the personal accident cover that is bundled into the policy
  - ✓ The nation is under a 21-day lockdown up to April 14 and citizens are not allowed to use their private vehicles during this period.

- **From this academic session (2020-21), all 1,200 Kendriya Vidyalaya (KV) and Jawahar Navodaya Vidyalaya (JNV) across the country - would be providing 27% reservation to other backward class (OBC) category while admitting students in Class I**
- ✓ The MHRD decision follows the recommendation of the parliamentary committee for the welfare of OBCs which submitted its report in December 2019.
- ✓ As per the admission policy followed till now by all KVs, there is 25% quota under RTE (Right to Education Act), 15% for scheduled castes and 7.5% for scheduled tribes.
  - ✓ Besides, there is a 3% quota for differently-abled.
  - ✓ Apart from this, five seats are filled on recommendation of sponsoring agency — be it defence, railways, public sector companies, etc.
- ✓ The reservation would be provided according to the guidelines for filling the seats among five categories, depending on the service sector in which parents or grandparents of student are employed.
  - ✓ Category I is of all central government employees, including defence, paramilitary, railways, etc
  - ✓ Category II is of employees of autonomous bodies of central government like nationalised banks, LIC etc
  - ✓ Category III includes employees of state governments.
- **For the first time in the history of Indian judiciary, a J&K high court judge, Justice Rajnesh Oswal - took oath under the Constitution of India and not under the J&K Constitution on April 2**
- ✓ The J&K Constitution has ceased to be in effect since August 5 last year, when the Centre ended the special status of the state and reorganised it into two Union Territories.
- ✓ **In another first, the oath-taking of Justice Oswal was conducted through videoconferencing**
- ✓ It was due to restrictions on public gathering and requirement of social distance to prevent the spread of coronavirus.



- ✓ Chief Justice of J&K HC Gita Mittal administered the oath of office to Justice Oswal through videoconferencing

- ✓ The ceremony was live-streamed through webcast on the internet
- ✓ **This is again for the first time that the warrant of appointment was read in English and Hindi.**
- ✓ Earlier, in the erstwhile state of J&K, the warrant of appointment of a judge of the HC used to be in three languages — English, Urdu and Hindi, and since the state language was Urdu, the warrant used to be read in English and Urdu only
- **The Centre – has started using the feature of ‘geo-fencing’ to locate the quarantine violators in the Covid-19 outbreak.**



- ✓ Kerala was one of the first States to use geo-fencing to track COVID-19 cases.
- ✓ On March 29, the Department of Telecommunications (DoT) shared a standard operating procedure (SOP) with all telecom service providers regarding the application called ‘COVID-19 Quarantine Alert System’ (CQAS).
- ✓ The government has launched an application that sends e-mails and SMS alerts to an authorised government agency if a person has jumped quarantine or escaped from isolation, based on the person’s mobile phone’s cell tower location.
- ✓ The Centre is using powers under the Indian Telegraph Act to “fetch information” from telecom companies every 15 minutes to track COVID-19 cases across the country.
- ✓ The “geo-fencing” will be accurate upto a distance of 300 m
- ✓ The concept will only work if the quarantined person has a mobile phone from Airtel, Vodafone-Idea or Reliance Jio
- ✓ The Government owned “BSNL/MTNL” do not support location based services.
- **The Railways - has now decided to manufacture Personal Protection Equipment (PPE) garment for medical professionals, service personnel and other care-givers involved in the COVID19 pandemic.**
- ✓ The Jagadhari workshop in the Northern Railway had already developed a sample PPE garment which was in the process of approval by the authorities.
- ✓ The PPE should conform to the approved design for standardisation.
- ✓ Earlier, the Railways had been involved in converting coaches into isolation/quarantine facilities

- **In a major breakthrough, the Defence Research and Development Organisation (DRDO) - has developed a special 'sealant' as an alternative to 'seam sealing tape' which is critical in personal protective equipment (PPE).**



- ✓ The key problem area in the production of bio suits by DRDO and its industry partners is the non-availability of seam sealing tapes.
  - ✓ The DRDO has prepared a special sealant based on the sealant used in submarine applications.
  - ✓ Presently, bio suits prepared using this glue for seam sealing has cleared test at the Southern India Textile Research Association (SITRA), Coimbatore
  - ✓ At present, Kusumgarh Industries, with technology transfer from the DRDO, is producing the raw material and coating material
  - ✓ The complete suit is being manufactured with the help of another industry partner.
  - ✓ Separately, Naval Dockyard, Mumbai, has designed and developed its own handheld 'low-cost' Infra Red (IR) based temperature sensor for screening at its entry gates
  - ✓ These entry gates have an average influx of around 20,000 personnel every day.
  - ✓ The instrument was manufactured at less than Rs 1000.
  - ✓ The accuracy of the temperature gun is 0.2 degree Celsius.
- **The Government - has announced that all COVID-19 hospitalisation expenses will be covered under Arogya Sanjeevani insurance policy.**
  - ✓ It is a standard and uniform health insurance policy offered by all 29 general and health insurance companies
  - ✓ The details of the coverage were announced by the Insurance Regulatory and Development Authority of India (IRDAI) on April 1, 2020.
  - ✓ The cost of premium would be around Rs 1000 for coverage up to every 1 lakh
  - ✓ It is a standard policy that will offer the basic coverage and will enable more people to get health insurance coverage
  - ✓ It was introduced on April 1, 2020.
  - ✓ The insurance policy will offer health expenses between Rs 1 lakh and Rs 5 lakh.



- ✓ It can be availed through both individual and family insurance plans.
  - ✓ The maximum age limit to purchase the policy is 65 years.
  - ✓ The policy premiums will be the same for all companies and regions across the country and it can be paid monthly, quarterly, half-yearly or yearly basis.
  - ✓ Besides this, the insurance policy can be ported from one insurance company to another since it is a standard one.
  - ✓ To avail the cumulative benefit, the policy has to be renewed every year without a break.
  - ✓ The Insurance Regulatory and Development Authority of India (IRDAI) has stated that all current medical insurance policies in India will cover COVID-19 hospitalisation expenses.
- **The National Monitoring Dashboard on COVID 19 Grievances - was launched by Minister of State for Personnel, Public Grievances and Pension Dr. Jitendra Singh on April 1, 2020.**

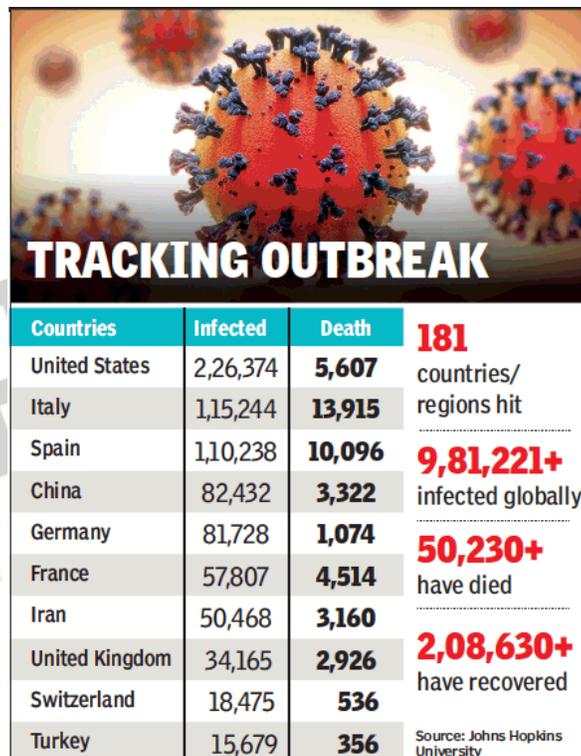


- ✓ The dashboard has been developed and implemented by the Department of Administrative Reforms and Public Grievances (DARPG).
- ✓ The COVID-19 related public grievances will be handled on a priority basis by the technical team of DARPG
- ✓ The task team will ensure quick and timely implementation of COVID 19 Response Activities.
- ✓ The dashboard was set up by DARPG based on the recommendation of the Empowered Group Officers, which was constituted under the Disaster Management Act 2005 on Public Grievances and Suggestions.

- ✓ The portal is designed to address all types of grievances such as complaints regarding violation of lock down, essential supplies, quarantine facilities etc.,
- ✓ The National Monitoring Dashboard was operationalized and about 62 grievances of the citizens related to various departments were addressed within two days.

## INTERNATIONAL

- **The count of confirmed coronavirus cases - approached 1 million around the world on April 2, as Europe was badly affected from the pandemic**
- ✓ More than 1,000 Americans died of coronavirus infection and related issues in the past 24 hours
- ✓ This is the first time the toll has crossed the four-figure mark on a single day — as the US death count from the pandemic crossed the 5,000 mark on April 2.



- ✓ With this, the US has become the first country in the world to record that many deaths from coronavirus in one day.
- ✓ The grim record for deaths in one day was earlier held by Italy with 969, which it registered on March 27.
- ✓ A total of 1,040 people died in US by 10.25pm EST on April 1, as per the reported data
- ✓ Since emerging in China in December, Covid-19 has infected more than 9,81,000 people — including at least 5,40,000 in Europe — and claimed more than 50,000 lives,
- ✓ France on April 1 became the fourth country to register over 4,000 coronavirus deaths

- ✓ Spain reported its record one-day number of deaths, 950, bringing its overall toll to about 10,000
  - ✓ Italy recorded 760 more deaths, for a total of 13,900, the worst of any country
  - ✓ The death toll from Covid-19 rose to 33 as the number of infected people in the country climbed to 2,386 in Pakistan on April 2.
    - ✓ So far, 107 patients across the country have recovered from the disease and discharged from hospitals.
  - ✓ In the China's Wuhan, a scheme of colour coding in the mobiles has been implemented, with the green symbol on residents' smartphones dictates their movements.
  - ✓ Green is the "health code" that says a user is symptom-free.
  - ✓ It's required to board a subway, check into a hotel or enter the city of 11 million.
  - ✓ Serious travel restrictions still exist for those who have yellow or red symbols.
- **The Chinese city of Shenzhen - has banned the eating of dogs and cats as part of a wider clampdown on the wildlife trade following the emergence of the new coronavirus**
- ✓ Scientists suspect the coronavirus passed to humans from animals.
  - ✓ Some of the earliest infections were found in people who had exposure to a wildlife market in Wuhan, where bats, snakes, civets and other animals were sold.
  - ✓ Authorities in the city said the ban on eating dogs and cats would come into force on May 1.

## CONFERENCES & SUMMITS

- **The United Nation's flagship annual climate change conference, COP26 (26th session of the conference) – was postponed following the Covid-19 outbreak**



- ✓ It was scheduled to be held at Glasgow in United Kingdom (UK) in November.
- ✓ This crucial meet will now be held in 2021 — the first year of the operationalisation of the Paris Agreement.
- ✓ The rescheduled date of the summit for 2021 has not been announced yet.

- ✓ The decision to postpone the summit was taken by the COP Bureau of UNFCCC (United Nations Framework Conventions on Climate Change)
- ✓ Italy is the partner country for this year's UN climate change conference.
- ✓ Italy was to host a number of key preparatory events such as a Youth Event and the Pre-COP Summit in Milan from September 28 to October 2
- ✓ Some 30,000 people including 200 world leaders were due to attend the 10-day conference that aims to check rising global temperature.
- ✓ Other UN climate meetings, scheduled to be held in June in Bonn, have also been postponed.
- ✓ They will now be held in October.
- ✓ COP is a supreme-decision making body of the United Nations Climate Change Convention
- ✓ The COP meets every year to review the emission inventories around the world
- ✓ The 1.5 degree report of IPCC (Inter Governmental Panel on Climate Change) had warned that the world will breach the 1.5 degree Celsius limit set from 2030 to 2052.
- ✓ Currently the world is 1.2 degrees warmer than the pre industrial levels
- ✓ This is because, at such temperature all the corals in the planet would bleach off and die eventually affecting the marine ecosystem to a great extent
- ✓ COP24 in 2018 focused on climate-friendly modern solutions like electro-mobility for sustainable urban development
- ✓ COP25 in 2019 which was held in Madrid ended on a rather disappointing note as there were no concrete plans regarding the growing climatic urgency in one of the longest climate talks

## **SCIENCE, TECHNOLOGY & ENVIRONMENT**

- **The students and scientists of IISc, Bengaluru - have developed indigenous ventilators under “Project Prana”.**
- ✓ The ventilator was made by using the pressure sensor, which are widely used in automobile industry.



- ✓ Apart from the sensor, the scientists also used Reverse Osmosis Water Filters.
- ✓ The pressure and flow parameters in the ventilator are controlled by using PLC board.
- ✓ A PLC board is a programmable Logic Controller board, which is mainly used for programming purposes.
- ✓ The ventilator mixes oxygen with compressed air.
- ✓ All the components used in the device are found or made in India, making the product 100% indigenous.
- ✓ Generally, India imports its ventilators from Switzerland.
- ✓ Currently there are 40,000 ventilators available in the country, addressing the breathing difficulties faced by the coronavirus affected patients
- ✓ Recently Naval Dockyard supplied its MOM (Multi-feed Oxygen Manifold) ventilators to Andhra Pradesh Government.
- ✓ The MOM ventilator is portable and is capable of serving 6 patients at a time.



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