

## Karnataka Startup Cell picks 16 solutions to beat pandemic

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### Karnataka Startup Cell received 345 applications across 3 phases



Karnataka Startup Cell, Karnataka Innovation and Technology Society (KITS), Department of Electronics, IT, BT and S&T, Government of Karnataka launched Combat Covid19 Challenge in March 2020 inviting applications from innovators who have developed innovative product/ solutions to combat Covid19 pandemic. Karnataka Startup Cell received 345 applications across 3 phases.

Applications were evaluated through a structured evaluation process by independent jury nominated by industry associations against certain parameters like Novelty/ Innovation, Feasibility & Social Impact, Timeline for Deployment and Reach, Scalability & Regulatory Hurdles, and Team Strength. Based on the readiness, certifications & compliances, 16 product/ solutions were selected for showcase.

The products were launched by Dr Ashwath Narayan C N, Deputy Chief Minister, IT, BT and S&T through an online platform.

Product/ Solutions launched under Combat COVID 19 challenge by Karnataka Startup Cell, KITS;

1. Agamin Innovations Private Limited: Qonch is an IOT based platform with smart ID card holder which makes businesses, schools, colleges and university to re-open with confidence and implement social distancing norms on real time and contact trace in case of any breakouts. In addition to specific use case the platform also allows to manage attendance, geo-fencing, crowd management asset management etc.
2. AMPWORK Private Limited: A platform where Business, Governance, People and Health Care, work together to help government to UNDERSTAND, MONITOR and EVALUATE the current situation. They have already built a platform where People, Businesses and Administration uses the platform where verified businesses supply daily needs to the people. Used by Kodagu District and Dharwad District.
3. Biodesign Innovation Labs Private Limited: RespirAID is a safe, reliable, portable, affordable alternative for prolonged manual ventilation that delivers intermittent positive pressure ventilation with essential ventilator parameters and provides automated respiratory assistance for patients. It can be used during emergency care, transport ventilation and postoperative anaesthesia.
4. Blackfrog Technologies Private Limited: Emlvio is a portable medical-grade refrigeration system for the safe transport of biologicals like vaccines, blood, serums etc. that require strict temperature-control. The product is now being used

by District Hospitals in Karnataka and TN for the transport of COVID-19 specimens (nasal & throat swabs) while ensuring the samples are not thermally-degraded or contaminated, thereby preventing risks of false-negatives arising during testing.

5. Cocoslabs Innovative Solutions Private Limited: Pixuate is an AI based software which uses a thermal camera when placed at the entrance of public places, can detect body temperature of people entering the premise, without stopping them. This is done at a safe distance of 3-5 meters. Also, the temperature reading of everyone is recorded by the software, and real-time alarm is given if someone with high temperature walks in.
6. CoRover Private Limited has invented a world first AI-based Doctor VideoBot addressing to the queries about COVID-19 disease transmission and contagion control supported with multilingual voice and text formats. AskDoc provides its users with an auto and quick response to any queries about the Coronavirus, along with the safety measures to be followed as per the MHFW, Government of India and WHO guidelines.
7. Creintors Automation Solutions Private Limited: Thermoxy (Temperature, Pulse Rate and Oxygen Level measurement) is specifically designed to measure the human body parameters like temperature, pulse rate and oxygen level and display each parameter on the device screen. The real time data such is transferred to the network by both wireless or through LAN. They have also given options for adding any intelligence tools using the data collected.
8. HYLO Challenger Private Limited: Hylobiz - digitising receivables | payables and working capital for SMEs - Post COVID, SMEs value chain is badly disturbed on their cash flows and working capital. Moreover, physical cash and cheque collections is no more comfortable or safe. hylobiz digitises the whole process of sending invoices, automated reminders, collections / payments, automated reconciliations, working capital possibilities from Banks/ NBFCs, insurance services through a single window platform. It would help the SME value chain which is the core of any country's economy to bounce back sooner.
9. InformDS Technologies Private Limited: Doxper is an AI powered digital pen and encoded paper solution which does not require any behaviour change from the doctor, nurse or assistant - no typing is required. The solution can be quickly deployed to all of the COVID-19 screening and testing centres (Fever Clinics, Serological Testing etc), to ensure that real-time, accurate data is digitised and flows to the right stakeholders for updates and analysis. Additionally, in the case of false negatives or new cases discovered, a digitised paper trail will allow for rapid contact tracing and investigation.
10. InnAccel Technologies Private Limited: VapCare is an automated secretion management and oral hygiene system for ICU patients on mechanical ventilation. VAPCare provides a completely closed system for intelligent and accurate removal of saliva and secretions in a ventilated patient- without any risk of exposure of the nurse to these secretions. VAPCare also significantly reduces the nursing burden by automating a key nursing step in the management of ventilated patients- which will also be critical in the impending shortages of nursing staff with increased ICU admissions for COVID.
11. Nubewell Networks Private Limited: Nubewell Network Function Gateway - Fake News Filtering at the Enterprise and Service Provider Level. Their SDWAN solution offers optimal traffic steering with predictable application performance combined with Smart Generation security features with Real Time Full Visibility and seamless Integration with third party vendors. Blocking all the Chinese Application in the ISP level. WFH (Work From Home) users are benefitted with Nubewell All In One simplified pizza box to prioritise video streaming application, collaboration tools such as WebEx, Microsoft Teams , Goggle Video, Corporate Applications such as Citrix, SAP, Oracle ERP and Cloud Applications such as Office 365 , SAP Cloud , Oracle cloud, Corporate VPN etc.
12. Printalytix Private Limited: FACE SHIELDS – They manufacture face shields which can protect public, healthcare heroes from getting infected by COVID-19 virus. COVID SAFETY KEY - Their safety keys to handle multiple objects in our daily life such that any person using the keys need not touch surfaces of objects such as door handles, gates etc. & can protect themselves from getting infected by COVID-19 virus. INTUBATION BOXES their intubation boxes, which are used in COVID-19 hospitals by doctors while treating patients such that aerosols which contain COVID-19 virus do not come in contact with healthcare staff & protects them from getting infected by COVID-19 virus.
13. SenseGiz Technologies Private Limited: SenseGiz have built an award winning & patent pending digital solution for enforcing social distancing and contact tracking for enterprise use: to mitigate risks, keep employees safe and prevent future business Shutdowns due to COVID19. Our solution also helps enforce geo-fencing for specified areas & prevents overcrowding. It can give instant audible alerts to individual employees carrying tiny tags if they break social distancing norms as well as give detailed reports with timestamps to admins.
14. Stasis Health Private Limited: Stasis is the only Made-in-India, USFDA-cleared Remote Patient Monitoring (RPM) solution that converts any bed into a cloud-connected in any care setting within minutes. Their smart, continuous, remote monitoring solution is easy to install and very simple to use, needs NO additional infrastructure, and can be deployed in all areas of the hospital including general wards, private rooms, isolation rooms, transplant units, postoperative areas, HDUs, step-down units and even the ICU.
15. Touchless ID Private Limited: Touchless ID replaces HW scanners. We use the mobile phone camera to take a picture

of your fingers and extract fingerprint biometrics. These biometrics are compatible with Govt databases like Aadhaar and so on. The single biggest cause of disease transmission is based on what we touch, the germs we leave behind and the germs we pick up from what other people have touched. During these times, we won't allow our loved ones to touch a HW scanner as the scanner could become the very epicenter for the spread of disease. Our product eliminates the "touch" in the attendance system.

16. Turtle Shell Technologies Private Limited: Dozee is India's only contactless health monitor. It is a thin sensor sheet that goes below the mattress and monitors heartbeat, respiration, oxygen saturation and more and sends this information to doctors remotely. Without any wires, patients can be continuously monitored. Nurses don't have to physically visit patients to check their health vitals, reducing their exposure to infection and workload. Doctors can also put custom alerts on each patient to identify patients that are deteriorating, and hence can timely transfer them to ICU. Dozee is being used in 20+ hospitals and covid centres in remotely monitoring patients. Dozee is also being used in monitoring thousands of patients in home, increasing India's bed capacity by thousands. Dozee has proven life-saving in 47 cases already.