





GOVERNMENT OF KARNATAKA Department of Electronics, IT, Bt and S & T





STARTUP KARNATAKA









DISCLAIMER

This document is only recognizing the efforts by the entrepreneurs/ innovators/ startup/s for their proactive effort in developing innovative product/ solutions to combat covid19 pandemic. Government/ Department do not endorse/ authorize the product/ solutions in anyway. Any organization/ individual adopting or buying the innovations can validate this further to suit their needs or place by authorized agencies if further trials or testing is required. This document is purely a recognition to promote innovation and does not carry any commercial value.



PREFACE

STARTUP KARNATAKA SHOWCASE

"Innovations to Combat Covid19 Challenge"

As the world confronts the pandemic and Bengaluru being the "Startup Capital of India", Karnataka has taken a leadership position in leveraging the innovation ecosystem in the State to tackle the COVID-19 situation. The Startups expressed interest in fighting this pandemic with their innovative products/ solutions. Keeping in view of the challenges faced by the society and the Government in tackling the pandemic, the Karnataka Startup Cell, Department of Electronics, IT, Bt and S & T launched an online campaign, "COMBAT COVID-19 CHALLENGE". The campaign aimed at narrowing-down innovative products/ solutions offered by various Startups, Corporates, Institutions, NGOs/ Trust, Research Labs, SMEs, Entrepreneurs etc. across a myriad of challenges set forth by the COVID pandemic.

Karnataka Startup Cell received 356 applications from Startups/ Institutions across multiple sectors such as Agriculture, Healthcare, Biotechnology, Education, Food & Beverages, Logistics, Robotics, Automotive, Telecommunication & Networking, Travel & Tourism and many more. These products/ solutions have been evaluated by a team of experts nominated by industry associations and based on the scores awarded, 103 applications were shortlisted. Finally, 16 startups whose products/ solutions which were deployed and had basic compliance certifications are featured in this booklet.

Karnataka Startup Cell would like to highlight and thank all the industry associations and jury members for evaluating the applications.

Meet the 16 Startups whose efforts in developing products/ solutions combatting COVID-19 are showcased. Also, this booklet contains list of innovative product / solutions for combating COVID-19.





Agamin Innovations Private Limited https://agamin.ai/

Sector: IT/ITES



Qonch

Product Description:

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, crowed management asset management etc.



AMPWORK Private Limited

https://www.ampwork.com





Letstart

Product Description:

Sector: IT/ITES

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.



Biodesign Innovation Labs Private Limited

https:biodesigninnovationlabs.com





RespirAID

Product Description:

Sector: Biotech

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 post-operative anaesthesia.







Emvolio

Blackfrog Technologies Private Limited https:blackfrog.in

Sector: Healthcare

Product Description:

Blackfrog Technologies Private Limited: Emvlio 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.







Thermal analytics to check elevated body temperature for multiple people simultaneously.

Cocoslabs Innovative Solutions Pvt Ltd.

https:pixuate.ai

Sector: IT/ITES

Product Description:

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.





CoRover Private Limited

https: CoRover.ai

Sector: Al Healthcare



AskDoc - Al VideoBot for Covid - World's first Al Doctor

Product Description:

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 multi-lingual 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.







Thermoxy (Temperature, Pulse Rate and Oxygen Level measurement)

Creintors Automation Solutions Private Limited

www.cautomate.com

Sector: Product Design and Manufacturing

Product Description:

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.

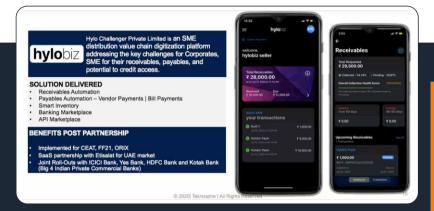


hylobiz

HYLO Challenger Private Limited

www.hylo.biz

Sector: Fintech



Hylobiz - digitising Receivables | Payables and working capital for SMEs

Product Description:

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.





InformDS Technologies Private Limited www.doxper.com

Sector: Healthcare





Product Description:

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.







VAPCare

InnAccel Technologies Private Limited

www.innaccel.com

Sector: Healthcare

Product Description:

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.





Nubewell Networks Private Limited

www.nubewell.com

Sector: Cyber-Security



Nubewell Network Function Gateway - Fake News Filtering at the Enterprise and Service Provider Level - Blocking all the Chinese Application traffic in the network/ISP level

Product Description:

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 Chines 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.





Printalytix Private Limited

www.printalytix.com

Sector: Manufacturing

PRINTALYTIX COVID-19 SAFETY KEYS & INTUBATION BOX





Face Shields, Covid Safety Key, Intubation Boxes

Product Description:

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.







Social Distancing Enforcement & Contact Tracing Solutions

SenseGiz Technologies Private Limited

www.sensegiz.com

Sector: IT/ITES

Product Description:

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 COVID-19. 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.



Stasis Health Private Limited

www.stasislabs.com

Sector: IoT Medical Devices

Product Description:

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, post-operative areas, HDUs, step-down units and even the ICU.





Stasis Remote Patient Monitoring Solution



Touchless ID Pvt Ltd.

www.identy.io

Sector: IT/TES

Touchless ID



Touchless Mobile Attendance System

Product Description:

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 epicentre for the spread of disease. Our product eliminates the "touch" in the attendance system.







Dozee

Turtle Shell Technologies Pvt Ltd.

www.dozee.io

Sector: Healthcare

Product Description:

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.



Agriculture

NAME OF THE COMPANY	PROJECT TITLE
KISANSAATHI (Tradedoot Agriculture Marketing Solutions Pvt. Ltd.)	Integrated Vegetable Marketing & Distribution From Farm-Gate To Customers
SKYKRAFTS AEROSPACE PVT. LTD.	Disinfection of Large Areas Using Kisan Drone, A Micro Spraying Drone.

Automotive

NAME OF THE COMPANY

PROJECT TITLE

ELEMENTAL MOTOR WORKS	Face Shield
EMFLUX MOTORS PVT. LTD.	Emflux Faceshield
MELADATH AUTO COMPONENTS PVT. LTD.	Nira - Non Invasive Respiratory Apparatus



Artificial Intelligence (AI)

NAME OF THE COMPANY **PROJECT TITLE** Hyperbaric Oxygen Therapy Machine For Covid COGMAC TECHNOLOGIES Treatment Al Based Covid Detection Using Voice Samples COGMAC TECHNOLOGIES Arintra : Clinical Insights And Predictive Analytics For HEALTHCLOUDAILABS PVT. LTD. Covid-19 Treatment Large Scale Screening For Covid19 HELLOSIVI SOFTWARE LABS PVT. LTD. INVENTIGEN TECHNOLOGIES P.V.T Al Assisted Radiology Based Covid 19 Diagnosis Containment Zone Tracking Using Drone **RAY FOUNDATION** Surveillance TRACOMO AUTOMATION AND CAMERA Prevention And Management of Covid-19 SYSTEM PVT. LTD. Kannada Phone Lines For Covid-19 Surveys And VOXTA COMMUNICATIONS PVT. LTD. Information Lines **Discovery By Zenspectra** ZENSPECTRA SYSTEMS



Biotechnology

NAME OF THE COMPANY	PROJECT TITLE
ASPARTIKA BIOTECH PVT. LTD.	Alcohol Based Sanitizers For Personnel Hand Sanitization, Room Disinfection, Working Area Sanitization Etc
DENDRITE LABORATORIES PVT. LTD.	One-Step Reverse-Transcription Loop-Mediated Isothermal Amplification For The Detection of Infectious Covid-19
JANANOM PVT. LTD.	Repositioning An Fda Approved Drug For Critically III Covid Patients
QOLAB SOLUTIONS LLP	Easylator- A Portable And Reliable Ventilator For Covid-19 Emergency Action
ROBUST MATERIALS TECHNOLOGY	A Novel Highly Sensitive Microfluidics Based Igm Detection Kit For Covid19 Diagnosis
RUBIZON PVT. LTD.	Development of Novel Non-Alcoholic And Chlorine Free Disinfectant For Covid19
SERAGEN BIOTHERAPEUTICS PVT. LTD.	Explore The Efficacy of Blood Cell Derivative - Bcdtm A Growth Factor Concentrate Derived From Pre- Screened Donor Platelets, For Catalysing Lung Tissue Healing And Preventing Progression To Fibrosis In Patients With On-Going Covid19
SWAKIT BIOTECH PVT. LTD.	Design And Development of Antimicrobial Mouth Mask



Data Analytics/ Data Mining

NAME OF THE COMPANY	PROJECT TITLE
GETPY ANALYTICS PVT. LTD.	Covid19@Getpy
MANIPAL UNIVERSITY	Coronafence

Enterprise Software/ SAAS

NAME OF THE COMPANY	PROJECT TITLE
IOT RESEARCH LABS	Chariot
SURAJYA SERVICES PVT. LTD.	Covid-19 Relief Schemes
YOBNY TECHNOLOGY SOLUTIONS PVT. LTD.	Queueone - Digital Queueing Platform



Food & Beverages

NAME OF THE COMPANY	PROJECT TITLE
ELECTRONODES SOLUTIONS PVT. LTD.	Ayurvedic Immunity Boosters

Hardware Devices/ Electronics/ DSP

NAME OF THE COMPANY	PROJECT TITLE
ADDITIVE MANUFACTURING INDIA PVT. LTD.	Ayurvedic Immunity Boosters
HYDROPOUR TECHNOLOGIES PVT. LTD.	Contact Less Hi Efficiency Automatic Hand Sanitation System
MAYURA ANALYTICAL	Ozone Sanitisation For Air And Surface Disinfection
MUSE DIAGNOSTICS PVT. LTD.	Taal & Surr: A Revolution In Digital Stethoscopes
PACIFY MEDICAL TECHNOLOGIES PVT. LTD.	Disinfector Device
RAPTURE INNOVATION LABS PVT. LTD.	Assistive Device For Quarantine Monitoring



Healthcare & Lifesciences

NAME OF THE COMPANY	PROJECT TITLE
AZOOKA LABS PVT. LTD.	Point of Care Diagnostic Tests For Mass Surveillance
BIONIC YANTRA	Wearable Sensor To Monitor & Track Covid-19 Like Signs And Symptoms
CHAKR INNOVATION	Covid Shield Ozone Based Ppe Sterilization System
CHIGROO LABS PVT. LTD.	Ventilator Expander
CLOUDPHYSICIAN HEALTHCARE PVT. LTD.	Cloudphysician Teleicu For Covid-19
FORM B DESIGN+RESEARCH PVT. LTD.	Form B Design - Faceshield
HEAMAC HEALTHCARE PVT. LTD.	Cowatch-20
HOOLI HEALTHCARE TECHNOLOGIES PVT. LTD.	Corona Tracker
IBRUM TECHNOLOGIES	Protective Face Shield
JANITRI INNOVATIONS PVT. LTD.	Daksh Intrapartum Remote Monitoring Mobile Application



Healthcare & Lifesciences

NAME OF THE COMPANY

PROJECT TITLE

LOKOZO TECHNOLOGIES PVT. LTD.	Uv-C Disinfector /Sterilizer
OMIX RESEARCH AND DIAGNOSTICS LABORATORIES PVT. LTD.	Covid 19 Molecular Detection On The Omix lamp Platform
Q9 DIAGNOSTICS	Cov 19 Testing Center On Wheels
SCIDOGMA RESEARCH PVT. LTD.	Piccocycler: A Revolutionary Affordable Gene Amplification System For Covid-19 Diagnosis.
SOLIC	Solitizer
SPARCOLIFE TECHNOLOGIES (OPC) PVT. LTD.	Aarakshakanige Rakshane Mesa / 20
TISHYAS MEDICAL DEVICE DEVELOPMENT SOLUTIONS PVT. LTD.	Sanireader - A Fluorescence Based Hygiene Imaging to Prevent Covid-19 Contamination of Workplaces And Assure Employee Safety
TRUSPECTRA INDIA PVT. LTD.	Autonomous Robotic Uvc Hospital Room Disinfection System With Sensor Navigation With An Option For Manual Affordable Uv Disinfection Systems
XENSIBLE INNOVATION LAB PVT. LTD.	Smart, Remote Patient Engagement Platform For Respiratory/Pulmonary Rehab Experts
YARAGO SOFTWARE PVT. LTD.	Covid 19 Specific Digital Supply Chain Management



Internet of Things

NAME OF THE COMPANY	PROJECT TITLE
CHANGEPAY MMS TECHNOLOGIES PVT. LTD.	Esamudaay- Contactless Local Delivery of Essentials With In-Built Sanitization Features
CYDEE TECHNOLOGIES PVT. LTD.	Social Distancing Button
INNOVATIONS FOR NEXT GENERATION (OPC) PVT. LTD.	Movement Tracker With Geo-Fencing Capability
INTUGINE TECHNOLOGIES	Covid Safe
L&T IN PARTNERSHIP WITH MEDIOTEK HEALTH SYSTEMS PVT. LTD.	Lti & Vincense Solution For Covid-19 Management
MERKADO RHA TECHNOLOGY PVT. LTD.	Quarantined Tracking

IT/ ITES

NAME OF THE COMPANY	PROJECT TITLE
ARTALLUR TECHNOLOGIES INDIA LLP	Rozagaar
ONEWHISTLE TECHNOLOGY INDIA PVT. LTD.	Covid-19-Karnataka



Media & Entertainment

NAME OF THE COMPANY	PROJECT TITLE
SERIES 5 LABS PVT. LTD.	Bmtc Namma Pass

Nanotechnology

NAME OF THE COMPANY	PROJECT TITLE
INDIAN INSTITUTE OF SCIENCE	Electrospun Polymer Nanofiber Membrane Embedded Face Mask
JK NANOSOLUTIONS	Nanotechnology Based Hand Sanitizer
NANOSENTRIX	Antiviral And Antibacterial Masks With Microbial Contamination Indicators For Personal Protection
NIPRO TECHNOLOGIES LIMTED	Nano Coatings For Long Term Disinfection of Surfaces
NOVONANMEK	Bioziny: Nano Engineered Zno Based Antimicrobial Coating
SIAMAF HEALTHCARE PVT. LTD.	Development of Magnetic Nanoparticle Blood Filtration System



Pets & Animals

NAME OF THE COMPANY	PROJECT TITLE
UNOSTAR BIOCHEM INDIA PVT. LTD.	Manufacturing Of Disinfectant And Sanitizer

Renewable Energy

NAME OF THE COMPANY	PROJECT TITLE	
BARUVINI DESIGNS AND DATA SERVICES LLP	Portable Power Solution For All Electronic Devices	

Retail

NAME OF THE COMPANY PROJECT TITLE NOT REGISTERED YET (Sanchit Gupta) Asap - Contactless Shopping



Robotics

NAME OF THE COMPANY	PROJECT TITLE
HEILEN MEDITECH PVT. LTD.	Covid-19 Testingrobotic Automation
INVENTO MAKERSPACES PVT. LTD.	C-Astra Robots For Better Disinfection And Diagnostics
SIRENA TECHNOLOGIES PVT. LTD.	Robots For Corona
ZEN AEROLOGIKS PVT. LTD.	Drone Based Surveillance, Human Tracking, Speaker Based Remote Communication, Disinfectant Spray

Safety Security Solutions

NAME OF THE COMPANY	PROJECT TITLE
DEEPTECH AI LAB PVT. LTD.	Contextualized Ai For Existing Cctv For Contact Less Entry And Face Mask Detection
LAZY DESIGN PVT. LTD.	Hand Key- Use Public Spaces Without Worrying About Covid-19
PARKINGRHINO ONLINE SERVICES PVT. LTD.	Stay Home India





NAME OF THE COMPANY	PROJECT TITLE
BUTTERFLY EDUFIELDS PVT. LTD.	Ppe'S For Frontline Healthcare Workers
GENERAL AERONAUTICS PVT. LTD.	Drone-Based Surveillance And Announcement Platform (D-Sap) For Crowd Monitoring And Control to Contain Community Transmission of Covid-19
IMBUO EXPLORATIONS PVT. LTD.	Covid-19 Energy Kit
REAP BENEFIT	Rapid Response Disaster Management Information Dashboard
SIGNABLE COMMUNICATIONS PVT. LTD.	Voice of Deaf During The Pandemic

Telecommunication & Networking

NAME OF THE COMPANY	PROJECT TITLE
WIZRUPT	Fakevid



Waste Management

NAME OF THE COMPANY	PROJECT TITLE
CREINTORS ENVIRONMENTAL SOLUTIONS PVT. LTD.	Pedal Operated Two In One Sanitizer Dispenser Unit
PACKBIKES INNOVATIONS LLP	Jalodbust - Eradicating Manual Scavenging Through Technology



Glimpses of Startup Karnataka Showcase





For Information Contact:

+91 80 - 2223 1007



startupcell@karnataka.gov.in





www.facebook.com/StartupK<u>arnataka</u>



www.linkedin.com/startupkarnataka



startup.karnataka.gov.in

BMTC- Central Offices Bullding
 TTMC 'B' Block, 4th Floor, Shanthinagar
 KH Road, Bangalore 560 027