

S.No.	Name of the Startup/Company	Name of the Founders	Product/Technology	Brief description	Product Specifications	Contact details		Cost (Selling price) per unit	Regulatory Approvals/ Certification acquired	Production Capacity per Day	Location of manufacturer	Challenges/ Bottlenecks (raw material/ supply chain/ regulatory/)	Any specific help required	Deployment status	Availability on GeM Portal
						Phone	Email								
Therapeutic															
1	Andhra Pradesh Medtech Zone	Dr. Jitendra Sharma	Oxygen Concentrator	Oxygen Concentrators with following features: <ul style="list-style-type: none">• 5 Litres• Single Flow• Easy to Carry• LightWeight• Low Maintenance	<ul style="list-style-type: none">• Oxygen Flow Rate : 1-5 LPM / min• Oxygen Concentration : 93% +/- 3%• Outlet Pressure : 8.5 - 13 psi• Voltage: 230 V; 50Hz• PowerConsumption:320W• Noise<48dB(A)• Weight : 16 Kg• Nozzle: 1• Weight : 16 Kg• Nozzle: 1		sales@amtz.in	₹ 42,000	Have regulatory approvals	200	Visakhapatnam	NA	NA	NA	Available on GeM
2	Andhra Pradesh Medtech Zone	Dr. Jitendra Sharma	SWASIT Ventilator	SWASIT ventilator has inbuilt turbine and is designed for rugged usage with various modes of ventilation suitable for pediatric and adult patients. It can be used both invasively and non-invasively for ventilating the patients	<ul style="list-style-type: none">• Adult/PediatricVentilator• Built-inTurbineTechnology• Operates on Invasive & Non-invasive modes• 8 VentilationModes, Tidal vol: 200-600 ml• Designed as per IEC60601 standards• Deliveryof FiO₂ is independent• PEEP settable upto 30cm H₂O• In-build sensor technology		sales@amtz.in	₹ 300,000	Have regulatory approvals	201	Visakhapatnam	NA	NA	NA	Available on GeM
3	Nocca Robotics	Harshit Rathore and Nikhil Kurele	NOCCARC V310 Ventilator	Noccare V310 offers an advanced, compact yet reliable ICU ventilation solution. Carefully crafted with the combination of cutting edge research and advanced manufacturing technologies, the turbine based design enables highly efficient independent operation and a wide range of ventilation modes, including High Flow Oxygen Therapy. The IOT enabled system allows central data monitoring and logging remotely, making Noccare V310 an accessible & easy to manage option for the health professionals in the current case of COVID-19 pandemic.	<ul style="list-style-type: none">• Respiratory rate 1-60 BPM• Peek Inspiratory Pressure 60cm of H₂O• PEEP 0-50 cm of H₂O• Pressure support 0-50cm of H₂O	7275965552	healthcare@noccare.com	₹ 370,000	EMC tested by TUV India Pvt. Ltd. As per standards IEC60601-1-2:2014	60 ventilators/ day	Pune	Funding support required to the tune of INR 13 Cr: INR 1 Cr for scaleup INR 12 Cr for securing critical components in large quantities so that the production can be enhanced upto 2500 ventilators per month		More than 1200 installations across India	No
4	Genrich Membranes Pvt. Ltd.	Dr. Ulhas Kharul	oxygen concentrator based on hollow- fiber membrane technology	Genrich has developed Oxygen Enrichment Unit (OEU) based on hollow-fiber membrane technology. The technology is in- licensed from CSIR-NCL,Pune. The unit enriches atmospheric air at certain pressure (4-5bar) and provides oxygen enriched air (35-40%). OEU can be used for home-care or under hospital settings for patients with breathing problem. During the first wave of Covid- 19, Genrich has installed 3 units at Dr Naidu Hospital, Pune for treating patients with Covid-19. Feedback received from the hospital was positive and states that the OEU is useful to treat Covid-19 patients with mild hypoxia (SpO ₂ ≥88%). Use of OEU reduces number of patients requiring a ventilator.	Genrich has developed two variants: VariantI: 10Lit/min(Forsingle patient) VaraintII: 25-30Lit/min(for3-4patients) Common specifications are: (i)O ₂ purity: 35-40% (ii)Flow type: Continuous, instant start-up (iii) Flow rate: 25 lit/min (v) free from pathogens, particulate matter (v)No need of trained manpower.	8308822216	rk.kharul@genrichmembranes.com	Variant I: ₹ 76,400 VariantII: ₹ 1,40,000	Certified by TUV Rheinland (India) Pvt. Ltd.	3 units/ day	Pune	Funding for scaleup	No	Deployed 3 units during first wave of Covid- 19 at the hospital treating COVD patients.	Problems with registration
5	Machbee Innovations Private Limited	Rahul Mohan & Harikrishnan M	JV50 Medical Ventilators	Volume based Emergency Ventilators specially designed to meet the covid 19 crisis. The device works on the basis of an automated ambu-bag mechanical system, whichis portable and compact. The device operates on AC power with a large display unit for the visual monitoring and controlling the device parameters. Each and every device is calibrated by NABL accredited agency.	JV 50 is used in both critical care as well as assistive breathing for Covid 19 patients for providing ventilation with oxygen. Oxygen cylinders can be attached to the device in order to provide the oxygen supply. The device can also be used in transportation of patients from one place to another. JV50 is also recommended in using as an emergency respirator with or without oxygen cylinders and is validated by major hospitals in India. We have supplied 5 units to United Nations in 2020. 10 units were supplied across Kerala in various Government General Hospitals as well. The product has following controls: 1) BPM-The BPM control knob can be used to control the respiratory rate ranging from 10 to 18 Breaths Per Minute. 2) IE Ratio: The IE Ratio control knob can be used to control the ratio of inspiratory time to expiratory time ranging from 1:1 to 1:2, depicted as 1 and 2 respectively in the display module. 3) Tidal Volume: The Tidal Volume control knob can beused to control the tidal volume ranging from 300 ml/kg to 550ml/kg.	8593015642/ 9400275779	ceo@machbeeinnovations.com	₹ 50,000	Each and every device JV50 Ventilators are calibrated by NABL accredited agency and then supplied for the use.	30 units per day	Kochi, Kerela	Funding and Less orders	Strong number of Orders will be helpful	30+ units	No
6	SOLAIRE INITIATIVE PRIVATE LIMITED	PROF SOUMYAJIT ROY and PROF PRASANT K. PANIGRAHI	OXYGEN MAKER (OM)	This product is based on the electro-catalytic ambient condition direct dissociation of tap water, as a substrate, oxygen source, using a patent catalyst, with a portable patent Oxygen Maker (device/product) which can work continuously for more than 5 hours giving oxygen using just a power source(standard 220V source). Light-weight, prototype (several pieces) have been developed by the co-founder using own meagre resource to respond to the present pandemic's oxygen demand, which can be even 3D printed, assembled and used on site.	<ul style="list-style-type: none">• The product, OxygenMaker (OM) is eco-friendly, uses water and an easily procurable catalyst.• It can run at least 5-10 hours non-stop without any refueling.• It can produce 2-5 L O₂ per minute.• Small, portable, weighing less than 5kgs.• Using molecular sieves, patent electrocatalyst• ISO compliant technology.		roy.soumyajit@gmail.com	₹ 15,000	ISO9001:2015 Certified	2000	Hyderabad (tentative), Bhubaneswar.	Need Start Up capital desperately to the tune of 10 Crore, to pay the employees, pay for pending vendors, pending prototype cost, cover patent cost, legal costs, other expenses so as to start producing and selling the product pan-India using at least Rimmers for production at 4 cities in India.	We need funding as much as permissible up to INR 10 Crore to scale up the prototype and bring the product full flege to the market to solve Oxygen crisis.	4 Units Sold, 100 units ordered	No

Monitoring/ Assistive															
7	InnAccel Technologies Pvt Ltd	Nitesh Jangir	VapCare	It is world's first fully automated, completely closed oral secretion clearance system for ventilated patients minimising nurses' exposure to patients' oral fluids. VAPCare provides a completely closes 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 the nursing staff with increased ICU admissions for COVID.	Automated suction and oral lavage system for the patients on ventilator to prevent secondary infection of ventilator associated pneumonia in COVID19 patients. Secondary pneumonia has been seen in more than 30% of COVID patients on ventilator.The device helps in proving a standard of care in secretions and oral hygiene management while keeping care givers safe from the infected secretions.	9901533090	nitesh@coco.in	₹ 400,000	1.Product is already registered with CDSCO in nonregulated category, so not required approval 2. USFDA certification has been done. 3. European CE certificate should come this month	500 Units per month	Mysore	Advance orders are needed to plan for the demand.	Connection with the doners to get funding/ advance orders	35 Devices deployed	Yes,available at a higher pricing as it includes more warranty and 100 disposables combined.
8	Turtle Shell Technologies Pvt Ltd (Dozee)	Mudit Dandwate, Gaurav Parchani	Dozee	Contactless remote patient monitoring system that converts any bed into step-down ICU	Parameters monitored are Heart Rate, Respiration Rate, Blood Pressure, and Oxygen saturation. The data is relayed over the cloud.	8904000000		₹ 3,600/ month	CDSCO,IEC60601	200/day	Bangalore	Logistics, because of lockdown (Permissions)	Vaccination of on field resources (they enter COVID wards to set up the devices)	3500	No
9	MonitraHealthcarePvt.Ltd.	RAVI BHOGU	upBeat®- World class cardiac monitoring platform now made in India. Accurate tracings leads to accurate diagnosis	Monitra's upBeat® has the most advanced bio-sensors which makes remote monitoring easy for patients with unexplained palpitations & transient loss of consciousness. Monitra upBeat®'s dashboard allows for structured efficient review of entire data and generation of reports thereby facilitating actionable diagnosis.Previuous studies have shown higher death rates in COVID-19 patients with evidence of heart damage. Heart damage can manifest as abnormal heart rhythms such as atrial fibrillation and atrial flutter. Atrial fibrillation is the most common form of heart arrhythmias and is an independent risk factor for death, especially in critically ill patients.	Indications for use: • To evaluate syncope, light headedness & palpitations in persons. • To screen for Atrial Fibrillation in patients with cryptogenic strokes. • To screen for Atrial Fibrillation in patients with Transient Ischemic Attack (TIA). • To document arrhythmia and its burden in persons. • To document impact of initiating drug therapy for an arrhythmia. • To document recurrence of arrhythmia after discontinuation of drug therapy. • To document results after an ablation procedure for arrhythmia.	7569042261	ravi.bhogu@monitrahhealth.com	₹ 10,000/ month Price per day depending on support available at the centre.	Product is not regulated as of now. It's a non notified device. HAVE AN NOC FROM CDSCO.	50/month	Hyderabad	Funding for manufacturing	NA	Active	No
10	Ubiquare Health Pvt. Ltd.	Sridhar P and Sundarajan S	CovidCare- Enables COVID-19 Helthcare at home and COVID care Centres	Product Features: Ubiquare Health,a recognized pioneer in specialty medical care, enables COVID Care at home for the asymptomatic and mildly symptomatic patients while they are under home isolation. Our cloud-based specialty virtual healthcare platform enables COVID Care that is aligned to the Guidelines for home care for COVID patients, issued by MoHFW. Hospitals and Physicians can use our solution to rapidly ramp up their COVID Care to remote patients at home and save the bedsfor moderate and severe cases.	Digital Healthcare ● COVID specific protocols with customizable workflows. ● Triaging, Vitals, Clinical Notes, Health Condition, Comorbidities, Clinical Telepresence ● e-Prescriptions, multi-party AV chats, screen share, and media share. ● Doctor consults and call button for quick medical attention. ● Counselling, Nutritional guidance, ClinicalAugmentation (complementing your staff) ● Trained medical professionals for clinical monitoring and supervision.	9972933600 / 9845292075	sridhar.p@ubiquare.com , sundararajan.s@ubiquare.com	System offer varies from one customer to another due to specific requirements	No regulatory approvals are necessary for this	Not Applicable	Bangalore	Funding to support marketing and workflow re-engineering at hospitals	Promotion among State Department of Health and hospitals to adopt this platform-based care model	Deployed in St John's Hospital in Bangalore. Proposal submitted to a hospital in Mysore. Exploring with 4 other hospitals linked through BIRAC.	Available on GeM
11	Ayu Devices Pvt. Ltd.	Mr.Adarsha Kachappilly	AyuSynk Bluetooth enabled digital stethoscope	• Bluetooth enabled digital stethoscope allows physicians/paramedics to listen to Heart and Lung sounds in PPEs, keeping safe distance from the patients also enabling transferring of chest sounds in telemedicine setups. • Enable early decision & intervention capacity for intensivists/ primary consultants • Enable simplification, recording and analysis of Heart and Lung sounds	Bluetooth 4.2, Range >2 meters, Battery 6-8 hours for continuous use	9004470008	adarsha.k@ayudevices.com	₹ 16,000	Received a letter from CDSCO for commercialisation	200 units per day	Mumbai, Mysore	None	Funding for CE and FDA regulatory clearances.	500 units deployed from October 2020	Not Yet
12	Predible Health Pvt. Ltd.	SuthirthV	LungIQ	Applied AI on Chest CT Imagingfor Severity Estimation of COVID-19 Patients: Artificial Intelligence powered solution that recognized COVID19 patterns in chest CT, providing love-wise involvement and 25-point severity score. By instantly generating radiology report, it helps speed upreporting, speed up turn around time and improve accuracy.	LungIQ is a cloud-based software that can integrated with any CTscanner or PAC Stogenerate COVID19 reports. Once integrated, reports are automatically generated within 10 minutes. Radiologists can then review and sign off on the reports, saving valuable time. LungIQ has been tested using over 5000 chest CTs and independently validated on 500 COVID19 patients.	9789958684		₹ 100 per CT scan Subscription packages available based on volume commitment.	Voluntarily registered with CDSCO	5000 studies/day	Bangalore	No	No	Processing 1000/day	In Process
13	Accuster Technologies Pvt. Ltd.	Mr. Amit B	Portable Compact Mobile Lab (PCML) and La-Bike	PCML:A Compact Portable Clinical LabWith An Open System In A Suitcase For Use In Cities And Remote Locations La-Bike: La- Bikes may travel from one emergency centre to other centre or nearby hospital where lab facilities are needed the most.	76 test can be conducted: such as Hematology, Biochemistry, serology, urine, BP, ECG etc. The Mobile Lab is very useful in emergency hospital setups & disaster relief set ups prepared to deal with COVID19 emergency.	8527895900	amithatnagar1208@gmail.com	La-Bike: ₹ 8,05,00 PCML: ₹ 4,36,000	ICMR, NSIC, ISO, CE & recommendations from NHSRC. Recommendation in guidelines of Free Diagnostic Scheme, MOHFW & Mobile Medical Units.	10 per day		Only supply chain; travel issues in delivery & raw material prices are escalated.	networking with clients	State govt. of Manipur has already introduced 85 La-bikes. 3000+ units sold	yes

14	Cloudphysician Healthcare	Dr. Dhruv Joshi and Dr. Dileep Raman	RADAR	RADAR is a platform which is designed for use in ICU management and patient monitoring by intensivists/ other medical personnel for critical care.	RADAR is a camera based networked monitoring system along with a web/ mobile applications.	8178326127	dhruv.sud@cloudphysician.net	Cloudphysician is a IIIT-H Medtech/ Bionest incubatee and a Cisco Launchpad cohort 5 company. Granted INR 1.5 Crores by the Dept of Science and Technology under the CAWACH scheme to battle COVID. Semifinalist at the NHA's Ayushman Bharat Grand Startup Challenge		No manufacturing required	Getting access to more hospitals and ICUs which may help from our expertise in remote critical care. GEM portal - application sent and approved, but not yet available on the portal,expediting that will be of great help.	Funding and go to market	25 hospitals deployed cared for >18000 critical patients	No	
15	Niramai Health Analytix	Dr. Geetha	Fever Test	Automated Screening Of Population To Look For Likely Covid-19 Infection By Checking For Fever Plus Associated Respiratory Diseases	1. Facial Temperature of all people walking into a facility is measured remotely using a thermal camera. 2. NIRAMAI Computer Vision technique identifies people with suspected fever. 3. A simply skilled health worker is sufficient to conduct the test, thus reducing the pressure on clinical testing.	9880118379	geetha@niramai.com	1) Multiple Person Screening solution (MP)- ₹ 7,50,000 2) Single Person Screening solution (SP)- ₹ 1,85,000 3) Mobile Single Person Screening solution (MSP)- ₹ 1,35,000 All prices exclusive of GST	Thermal sensors are CE certified	As per requirement	Fever Test software has been developed by Niramai at its facility at Bangalore. Thermal sensors are sourced from Sweden.	NA	NA	25 installations across Railway stations, IT Parks, corporate offices and hospitals.	
Equipment/Instrumentation															
16	Blackfrog Technologies Pvt. Ltd.	Mayur U Shetty	Precision Refrigerator	Envolio is a portable, battery- powered refrigeration device that will strictly maintain any preset temperature (2-8 deg C) for over 12 hours for the last mile transport of vaccines. Envolio's 2-litre capacity enables it to carry 30-50 vials, which is standard for a day long immunization campaign. This system is designed as a replacement for ice-boxes (present vaccine carriers) which are notorious for thermally-degrading vaccines prior to administering.	Designed as per WHO-PQSE003/TS01.1	7760890891	mayurshetty@blackfrog.in	INR 54,000	We are an ISO 13485 certified manufacturer of medical devices. We have received clearance (NoC) from CDSCO for manufacture and sale of our product. The product has been designed as per IEC 60601 and we have successfully passed the test results.	300 Units/ Month	Manipal, KA	Supply chain problems due to manufacturing delays	Connect to NHM, Karnataka and Health Secretary, Karnataka	Market Ready	It is under process: company's profile has been created. But since it's a new product of its own kind, company has to seek a new product category, which is going on.
17	MicroGO	Rachna Dave, Deepthi Subbaraya	GOAssure LITE	Practicing hand hygiene is a simple yet effective way to prevent infections. A compliance with effective hand hygiene practices is recognised as the most important strategy for reducing the transmission of pathogens. GOAssure is India's first and only solution that provides Hand Hygiene according to Good Hand Hygiene Practices i.e., 20 secs of hand hygiene and six steps.	GOAssure LITE is a patent pending solution that: 1. Assures good hand hygiene practices (20 secs and 6 steps of hand hygiene) 2. Ensures compliance monitoring 3. Automates hand hygiene Other technical details:- 1. RGB lighting indicators to guide user through hand hygiene process and In-built LCD display for easy guidance 2. 20 secs non-performance of hand hygiene is alerted 3. No of walk-ins shown on the screen 4. Handrub level is maintained through the window provided in the centre of device 5. Easy accessibility to replace Alcohol Based Handrub [ABHR] refills 6. Device holds 0.5 L hand rub refill-lasting 250 uses 7. Provision for wall-mount/table-top 8. Dimensions: Length - 154mm, Breadth - 214mm, Height - 309mm 9. Voltage rating info: 150-285V, 2A, 50-60Hz, 60W (Max) 10. Plug and play	9445980742	e.coli@microgo.in	INR 12000+ 18% GST (includes 06 nos of Alcohol based hand rub for 1500 uses)	CE certified and Product Available on GeM	100 units per day	Chennai			Yes	
18	AARNA BIOMEDICAL PRODUCTS - A SOCIAL HEALTH CARE ENTERPRISE	DR. PAWAN MEHROTRA	SURAKSHA PPE KIT	BREATHABLE ONE-TIME USE AND REUSABLE VARIANTS AVAILABLE. ONESET INCLUDES VIRGIN FABRIC BASED COVER ALL WITH GENUINE HEAT TAPING ON THE SEAMS AND TWO SHOE COVERS.	VIRGIN BREATHABLE FABRIC VARIANTS - SSMMMS (ONE-TIME USE), PE LAMINATED OVER NON WOVEN, WOVEN PU LAMINATED. OPTION FOR BOTH COLD TAPING AND HEAT TAPING IS AVAILABLE.	8105311590		1: ₹ 250 2: ₹ 450 3: ₹ 700 (Depending on the specifications)	ASTM F1670/ISO 16603	100-400 units per day	NOIDA-DELHI NCR			15000+	Yes

19	Airth Research Private Limited	Ravi Kaushik	Anti-Microbial Air Purifiers	We are protecting people from unseen viruses in the air in closed spaces using technology developed at IIT Bombay and supported by IIT Kanpur. Unlike other air purifiers in the market, we use a proprietary Deactivate-Capture-Deactivate mechanism for protection against infection spread. The technology has been tested for microbial reduction at NABL accredited lab and for reduction of SARS-CoV-2 sized particles i.e. 100nm at CSIR National Physical Laboratory	Anti-Microbial Air Purifier: state-of-the-art technology for real-time protection from unseen pathogens in the air. Specifications: - Covers 500sq.ft. - Clean air delivery rate (CADR) for 100nm is 300m3/hr - IoT enabled - Remote device monitoring - Real-time AQI, temperature and humidity monitoring - Works on IITBombay patent filed technology	7400402030	ravi.kaushik.c2019@iitbombay.org	₹ 34,999	99.99% microbial reduction from the air in 10 minutes from NABL accredited FICCI Research and Analysis Center. Tested for the removal of SARS-CoV-2 sized particles i.e. 100nm from CSIR-NPL	3	Aurangabad	Connection with various government hospitals and offices for installation		30+	No
20	Minion Labs India Pvt Ltd	Gokul Shrinivas	Minion Labs UV Saaph	Minion Labs UV Saaph(MUVS) product is designed like an elegant Microwave oven of 32 Litres to disinfect surfaces of objects from pathogens like bacteria, fungicides and other microorganisms that can cause diseases in humans and animals using UV-Clamps in less than 4 minutes at 360 degrees at 99.99% efficiency tested and certified by CSIO-CSIR, ISO15858:2016 Safety Certification, CE Certification. It can sanitize packages, deliveries, equipment, food parcels etc., and can able to disinfect pathogens in less than 4 minutes using UVC light.	32 Litres in capacity, 4 Minutes Disinfection, 360 degree coverage.	8939212604	gokul@minionlabs.tech	₹ 9,999	Safety Certification, CE Certification, Virology & Microbial test by IADFAC & IAPMO laboratories	10	Bangalore	Market Access & Funding		827 units sold since March 2020	Yes
21	Medicfibers Pvt. Ltd.	Harsh Lal, Hasraj Sagar	Antiviral & Antimicrobial Linens	Medicfibers developed antimicrobial solutions for treating textile fabric materials. Our technology is innovative and novel. First of all, our Viroclog solution is based on a unique patented formulation broadly consisting of a cosmetic based aromatic phenolic ether combined with an alkaline borate compound and surfactant on cellulose fibres. Our products include Antiviral and Antimicrobial hospital garments like doctors coats, Patient Gowns, Bed Sheets, and surgical gowns etc. The fabrics retain long lasting antiviral & antimicrobial properties for up to 125 WASHES which protects doctors, patients and other staff from HAI (Hospital Acquired Infections) and also reduces the attributable cost borne by patients per year.	Antiviral and Antimicrobial protection of 99.9%. Provides very good protection for up to 125 washes. Tested and certified by AIIMS Delhi, IIT Delhi, IISC Bangalore and multiple NABL accredited labs.	7321808254, 8826010973, 9461088772	harsh@medicfibers.com , hansraaz@medicfibers.com	Avg. unit distributor price between ₹ 500-600	Products tested by AIIMS Delhi, IIT Delhi, IISC Bangalore and labs based out of Israel. Additionally, we have test reports from multiple NABL accredited labs.	2000 units	Pilkhwa, Delhi	In scaling up across India		Deployed in several govt. Hospitals like NITRD, LNJP, private hospitals like Aashlok Hospital, Bhagwan Mahavir Hospital etc.	Available