

## DBT-BIRAC COVID PRODUCTS – READY FOR VALIDATION/SCALE-UP

S.No.	Name of the Startup/ Company	Name of the Founder s	Product/ Technology	Brief description	Product Specifications	Contact details	Cost (Selling price) per unit	Regulatory Approvals /Certification acquired	Production Capacity /day	Location of manufacturer	Challenges/ Bottlenecks (raw material/supply chain/regulatory /funding)	Any specific help required	Deployment status	Availability on GEM Portal
<b>Therapeutic</b>														
1	Biodesign Innovation Labs Private Limited	Gautham Pasupuleti , Adithya Pasupuleti	RespirAID	RespirAID is a life saving equipment that is affordable, easy to use, portablemechanical <b>ventilation device</b> that provides volume controlled ventilation for patients in ER, Ambulance, Post operative care anaesthesia and ICU.It is based on pneumatic ventilation system.	<p>Mode of ventilation Volume controlled ventilation (VCV) Tidal Volume (TV) 200-600 ml Respiratory Rate (RR) 10-30 BPM</p> <p>Peak Inspiratory Pressure (PIP) 10-80 cm of H2O Positive End Expiratory Pressure (PEEP) 5-20 cm ofH2O</p> <p>Inspiratory Expiratory ratio (I:E) 1:1,1:2,1:3* &amp; 1:4*(1:3 - Breath Rate 10-20 &amp; 1:4 - BR 10 - 12BPM for 10 ml/cmH2O Compliance and 50 cmH2O/l/sResistance Lung)</p> <p>FiO2 (Air Source) Atmospheric Air: 21%O2 &amp; Oxygen- 100%O2 {21-100% with Blender}</p> <p>Alarms: 1)Inspiratory airway pressure exceeded · 2)Machine Malfunction while in mandatory ventilation mode · 3)Inspiratory and PEEP pressurenot achieved (equivalent to disconnection alarm)</p>	9884726632 , gautham@biodesigninnovationlabs.com and www.biodesigninnovationlabs.com	3.3 Lakhs	Product has certifications done at labs in TUV, AMTZ, Intratrek	50	Bangalore, India	Funding support or POs with advance payment100%	Funding for scaling our production	22	Yes

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					4) Tidal volume not achieved or exceeded 5) High Circuit Leakage Alarm									
2	Indeema Fibres Private Limited and Chemdist Membrane Systems Pvt. Ltd.	Sandip Patil	PSA based Oxygen Concentration Technology	Oxygen Concentrator with following features: 1. PSA (Pressure Swing Adsorption) Based Oxygen Generation 2. Products for high altitude operations available 3. Customized Oxygen Generation plants for various industrial applications 3. O2 generation Plants (medical) of capacity 80 LPM to 500 LPM & higher available for industrial use. 4. Products for Higher Purity up to 98% available 5. In built Oxygen	1. High Purity Oxygen Concentrators 2. Plug and play model. 3. Environmental Friendly. 4. Nitrogen as by product (For industrial case) 5. 24 hr x 7 use 6. Movable concentrator 7. Long life.	9559213333  indeemafibres@gmail.com  9405845733 kaustubh@chemdist.in  (Kaustubh Dani. Sr. Application Engineer, Chemdist Membrane systems Pvt Ltd)	Rs 85,000/- per unit  (It will vary according to the quantity and capacity)	Yet to receive certifications. Connected to AMTZ for the same.	1. For high Capacity plant ( 80 LPM to 500LPM) - 10 to 15 days.  2. For Medical Use( 5LPM and 8 LPM) - 500 units per day	300A Sector 7 PCNTD A Bhosari Pune 411 026	1. Zeolite beads required for PSA. 2. Components (Compressors, valves) of American standards specially for the oxygen concentrators of small capacity. 3. Traders of above components for bulk quantity. (Minimum 5000). 4. Certification and accreditation.	1. Required Certifications for the product 2. Necessary accreditation for medical use.	NA	Not Available

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3	STEMrev Refineries	Saket Khandelwal	Oxygen Concentrator (5/10 LPM)	Using Sodium Zeolite to adsorb Nitrogen and pass the oxygen further reaching purity levels of more than 90%	5LPM and 10LPM available	+91-9151636015, 500saket@gmail.com, www.stemrevrefineries.com	55K for 10LPM	Need help from someone experienced as to how we can approach to institutes for Certifications	20	Bhopal and Kanpur	Funding and Regulatory	Need funding to go to higher production level	5	No
4	MFC Pvt. Ltd.	Dr. Purvil Khakharia	Oxycure	It is a <b>oxygen concentrator using Pressure Swing Adsorption</b> technology. However, instead of using expensive and low availability, we intend to use readily available and cheaper adsorbent material (zeolites).	It is a high flow (10 lpm at 90% purity) oxygen concentrator to support patients with moderate COVID-19 disease.	7045260605, dr.purvil@microfiltrindia.com,	Estimated to be ~ 50,000/ piece ex. works.	We will be ready with our first batch in 2 weeks and would like support for its validation and certification.	Current capacity of 10/day. It can be scaled upto 10-50x with financial support and assured supply from key component manufacturers.	Pune	1. We have addressed the supply issue of key raw material, i.e. Li Zeolite by using readily available zeolite. 2. Currently, there is no bottleneck for producing upto 50/day. However, for larger production the availability of good quality compressor becomes a bottleneck. 3. We are confident of the product design and robustness. Although not a	Our target is to support 2nd tier, 3rd tier towns and rural areas for deployment. We need access to organizations/platforms/channels to reach this audience.		No


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5	Simelabs	Derrick Sebastian, Prakash Bare, Tom Antony	iSave - Ventilator saving solution	We, in association with Prana foundation of MIT developed iSAVE. A Patient-Specific Ventilation Expansion System that repurposes existing medical flow valves to allow a single ventilator to provide personalized support to at least two patients. iSAVE enables independent control of volume and pressure for each patient and incorporates safety measures to accommodate sudden patient deterioration and cross-contamination.	LBH = 305mmX228mmX133mm. Patient-Specific Volume and Pressure Control, Alarms and Measures to Mitigate Cross-Contamination Between Patients	+918590806030, derrick@simelabs.com, <a href="https://www.indventr.com/">https://www.indventr.com/</a>	67000	Validation going on. We received CDSCO certificate.	15	chennai	Procurement of parts, availability of resources due to lockdown	Parts procurement and in sourcing funds	We shipped 10 units to US, Italy and to Ecuador	No
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6	Symbiorph Medical Technology Pvt. Ltd.	Siddharth Jain	10L/min High Pressure Oxygen Concentrator	10L/min High Pressure Oxygen Concentrator (Oxygen Outlet Pressure: 20-22 psi)	Time to Reach 95% of Specified Performance: < 5 Min Oxygen Purity: 93% to 96% Oxygen Outlet Pressure: 20-22 psi Alarms: Visual and auditory alarms Noise Level: ≤50 decibels	9998038576, siddharth@symbiorph.in	Rs. 45,000 + GST	We would like to validate the device at AIIMS Delhi	30-50 pcs per day	Ahmedabad	Funding for Advance Procurement of Molecular Sieve	Connecting to Central and State Government Officials for Demonstration	Deployment will start from June	No
7	AVYANTRA HEALTH TECHNOLOGIES PVT LTD	KVKLN RAO	CPAP Non Invasive Ventilator for Respiratory Therapy	We are proposing to commercialize CPAP (Continuous Positive Airway Pressure) devices for non-invasive ventilation and respiratory therapy for the treatment of patients undergoing respiratory distress, which is a typical symptom in SARS-COVID-10. Continuous Positive Airway Pressure (CPAP) and bilevel positive airway pressure (BiPAP or BPAP) machines can be used to support patients with respiratory insufficiency. CPAPs can help in	Specifications of the device developed  Positive Air Pressure: 4 – 20 cm H2O Ramp up time: 5 – 600 minutes Altitude Compensation: 0 - 8000 meters Resolution: 0.5 cm H2O Power Supply Input: 90 – 260 V ac 50 / 60 Hz? Consumption: 60 VA Environmental Operational Temperature: 18 – 40 deg.C Storage Temperature: 70 – 70 deg.C Humidity: 0-80% RH	Ph: 9849805104, avyantra@gmail.com, www.avyantra.com	Rs 25,000/-	We are in the process of testing and validating the product	> 100 units per day	TSIIC Industrial park, Isnapur, Hyderabad	Funding	Funding for the commercialization of the product	Not yet sold	No

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8	VEXMA TECHNOLOGIES PRIVATE LIMITED	1. Shaurin S Patel , 2. Shailendra SPatel	ERVA:- Emergency Respiratory Ventilation Apparatus.	The Present device comprising of Ventilating apparatus, wherein AMBU (Artificial Manual Breathing Unit) bag will be compressed based on the mechanical arm provided at the both end in mechanism. The mechanical arm moves as per guided the mechanical tooth follower.  Each compression rate is evaluated based on mainly 3 factors like Tidal Volume, BPM and I/E ratio. We have also included an Auto-assist mode	Parameter Range Tidal Volume 200 - 800 ml Respiratory Rate 6 - 40 BPM I/E Ratio 1:1 - 1:4 Max Pressure 40 cmH2O Max Plateau Pressure 30 cm H2O PEEP 5 - 20 cm H2O  Modes : Volume Control Mode, Assist Control Mode, Assist Mode. • PEEP is controlled mechanically by PEEP Valve . • Airway Pressure monitored at the patient - connection port relative to ambient pressure • Compatible for both Invasive and Non-Invasive methods • Measurement of Airway pressures : PIP, PEEP, Plateau pressure • 8 Hr Battery backup. • PIP and PEEP Readings can be monitored live.	Shaurin :- 972490996 5 ; Shailendra :- 812803097 9 ; Email Address:- info@vexmatech.com ; Website:- https://vexmatech.com/erva-ventilator.html	Selling Cost :- 1,50,000 INR + GST 12%	IEC 60601-1 ; ISO 80601-2 ; IEC 60601-1-2 ; ISO 13485 ; CE is in Process.	10	Mona Tiles Compound, Near Chhani Circle, Chhani Road, Nizampura, 390002, Vadodara, Gujarat, INDIA.	Due to Lock-down in some State , We have challenges in Supply and Demands Chain of our Vendors and Dealers.  We not register any Incubation , So We will Increase Production by achieve fund raising from the Government body.	To Funding, Service Engineer, Transportation and Handling.	50 +	Yes
<b>Monitoring/Assistive devices</b>														
9	Healthcubed India Pvt. Ltd	Dr. Ramanan Laxminarayan	AgeWell	Medical-grade device called AgeWell that measures vitals such as SpO2, Blood Pressure, Pulse Rate, ECG, respiratory rate and Temperature		+91 95133 1	INR 30K		Not a limiting factor	Bangalore	The devices are available in stock.No specific challenges in production.	We request help in deploying the devices for COVID positive patients being cared for at home.	100 ready for deployment	No

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10	Healthcube India Pvt. Ltd	Dr. Ramanan Laxminarayan	Healthcube SE/XL	HealthCube can measure vitals such as blood pressure, pulse, oxygen saturation, 12-lead ECG, test for biochemical parameters such as blood glucose, hemoglobin, cholesterol and uric acid, record physical parameters such as height, weight and BMI and read rapid tests for infectious diseases and inflammatory markers from capillary blood.		1800 121 04	INR 1.19Lakh		Not a limiting factor	Bangalore	The devices are available in stock.No specific challenges in production.	We request help in deploying the devices in COVID wards or any COVID treatment facilities.	500 ready for deployment	Yes
11	CADUCEUS HEALTHY GX CARE PRIVATE LIMITED	SATYA ADARI	Healthygx--The Virtual Care Platform.	Its a subscription based tech platform, provides tele-consultation, diagnostics, medicine delivery and subscriptions for holistic health	Its a subscription based tech platform, provides tele-consultation, diagnostics, medicine delivery and subscriptions for holistic health.	www.healthygx.com/satya.adari@healthygx.com/sudhir.k@healthygx.com/9810365199/8897843433	Multiple packages, start with as low as INR Zero	TELE MED REGISTRY	NA--ITS A SAAS MODEL	Hyderabad & Dubai	FUNDING	HELP WITH PARTNERSHIP WITH HEALHCARE PARTNERS	NA	No
12	Sleepiz India Pvt. Ltd	Soumya Dash, Sunil Kumar, Max Sieghold, Marc Rullan	Sleepiz One and Sleepiz One+ : Contactless Respiratory Monitor for Remote Monitoring applications	Sleepiz One + is a contactless device that measures respiration and respiratory patterns contactless. The device can be combined with an SPO2 sensor which offers long-term monitoring of SPO2 and pulse rate value. The results obtained from the device is remotely accessible to physician or Health Care Professionals on their dashboard where they can monitor several patients at a time. Additionally, Sleepiz Telemedicine Center offers the	Sleepiz One (Hardware) - A contactless device with Radar sensor capturing radar data of the physiological movement of a patient. Dimensions - 107 x 100 x 65 mm, Weight- 200g Sleepiz One+ ( Web application ) - A user-intuitive web application for a physician to monitor their patients, and access their reports. SPO2 sensor - A wristband sensor to be worn by the patient to monitor their oxygen	+41 779918389 , ankit.anand@sleepiz.com, www.sleepiz.com	Rental model - INR 8000 per month	Sleepiz One (Respiratory pattern monitoring Class I medical device) CE Certified, Registered on the portal for CDCSO approval (awaiting response), Sleepiz One (Respiratory pattern, Oxygen Saturation and Pulse	Production capacity - 5000 units in 8 weeks ; 20 units ready now for the sample deployment, 250 units to be delivered	Šentjerna, Slovenia, EU	Purchase order/Production funding; Supply chain	Accelerating regulatory approval to register the full offering in India to bring maximum value. Facilitating deployment at public hospitals, purchase order/pr oduction funding for high scale	250 devices deployed across Europe through different partners	No

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				<p>service of</p>	<p>saturation and pulse rate. The data recorded by this sensor gets synced with the Sleepiz One data through a Bluetooth module and sent to Sleepiz cloud together for further processing (Manufactured by Nonin Medical, Inc). Accessories – Stand, hotspot.</p>			<p>Rate Monitoring Class I medical device) CE Certification (Followed by CDCSO approval) expected end of May 2021, Sleepiz One+ (Respiratory Rate Monitoring CE IIA medical</p>	<p>red by in 5 weeks</p>					
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13	ShanMukha Innovations Pvt Ltd	Prof. Sai Siva Gorthi	Mobile Infection Testing and Reporting (MITR) Labs	Fully equipped connected molecular diagnostic laboratory on wheels to enable deployment of COVID-19 RT-PCR/CRISPR test capabilities close to containment zones to reduce turnaround times and effectively manage the spread of the pandemic.	Lab Dimensions: 20ft x 8ft x 8ft Testing methods : RT-PCR, CRISPR (Feluda / Tata MD CHECK) Vehicle : Tata LPT 1212 IT (optional): LIMS, Telepathology Fabrication including exterior and interior, electrical, mechanical, equipment installation, QA/QC, exterior branding, training. Lab infrastructure - Bio Safety Cabinet-Class B2, Custom laminar flow cabinets, Deep freezers -80 (Eppendorf), -20 deg (Celfrost/Elanpro), Pass Boxes, 4 deg refrigerator, Split A/Cs (Voltas), HEPA filters with Suction Fans, autoclave-40 lit, Awning with PVC Curtains, staircases, web cams with Memory cards, SIM based Wifi Router, GPS, 7 KVA Generator, Vortex Mixer, Automated Sanitizer, Air Curtains, PVC Curtains, Emergency Exit Signages, Emergency Light, UPS, voltage stabilizer, Split AC's, Servo Stabilizer, Changeover Switching Handle, 20 mts 3 core cable for grid power connection.	9742255674,arun.b@sminnovations.in,https://mitrlabs.in	INR 123 lakhs	Design approved by ICMR. Ready for NABL accreditation	50 units/month	Pune, Haridwar, Bangalore	Government procurement process (as the product falls into capex category, decision to buy apparently takes long time to close), funding for streamlining & automating manufacturing	Central/State government procurement through PM-CARES/NHM/other schemes, GeM listing - finding it difficult to add products that do not fit into existing categories on the marketpl	8 units deployed through CSR and DST CAWACH grants. 5 units deployed through commercial orders. Deployment	No
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14	Health Sensei India Pvt. Ltd.	Sameer Mehta, Padma Chandrasekaran	Central or Remote ICU & Ward Monitoring	Real-time critical health data monitoring & decision enabling software for clinicians & nurses. The company enables easy monitoring of hospital ICUs and wards for improved safety of patients. The platform is plug-n-play – supports vendor-neutral vitals equipment integration. Doctors can conduct digital rounds with real-time patient vitals and waveform data directly on mobile phones/ tablets or TVs	<p>Specifications:</p> <ul style="list-style-type: none"> <li>• Real time display of numeric vitals and waveforms</li> <li>• Supports up to 64 ICU Beds</li> <li>• Vendor neutral system</li> <li>• Auto Digital ICU flowsheets</li> <li>• EMR Integration through HL7 or custom APIs</li> </ul> <p>Information Display:</p> <ul style="list-style-type: none"> <li>• Parameters: HR, RR, NIBP, IBP, SpO2, PR, TEMP, EtCO2</li> <li>• Waveforms: ECG, RESP, SpO2, IBP</li> </ul> <p>Supported Display Devices: Smartphones, Tablets &amp; Smart TVs</p> <p>Supported OS: iOS &amp; Android</p>	Mr. Sabarish sabarish@healthsensei.co.in Mobile- +91 9710804008	1 Lakh/ Year up to 10 ICU Beds	Currently in India, Our innovation doesn't require regulatory approvals	Scalable software are based product Deployment time: 1 to 3 days	Chennai	Introduction to key decision makers for product demonstration	<ol style="list-style-type: none"> <li>1. Intro to Govt/Ar my Hospital Institutions</li> <li>2. Intro to BIRAC Grantees – Hospital ward monitoring equipment</li> <li>3. Intro to BIRAC Grantees – EMR/HIS company</li> </ol>	Installed at 6 Hospitals Work in progress to deploy at 3 new Hospitals	Not available
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15	HELYXON P Ltd	Mr Vijai, Mr Sridhar	Oxy-2: wireless vital monitoring device	Remote Monitoring Solution that can monitor 4 vital parameters SpO2, Heart Rate, Temperature and Respiration rate. Vitals can further be assessed remotely by physicians along with live video.		<a href="mailto:sridhar@helyxon.com">sridhar@helyxon.com</a> <a href="tel:9686196994">9686196994</a>	Rs 6,499		Every Week 10K Units	IITM Res Park	None	None	4,000 units sold	
16	Evelabs Technologies Private Limited	Vishnu M S	Dripo	Wireless Infusion Monitoring	Drop Counter based infusion monitor to alerts nurses on changes in flow rate and volume completions	9.401E+09	7000	Company is ISO13485 certified for production of Infusion Monitor, Drop detection and verification and validations completed	30	Makervillage	Raw materials for few components, Have stock for 1000 units. Battery Certification needs to be expedited for imports.	Connect to implementation partners	70	Yes
17	Atmen Technovation Pvt.ltd.	Abhijeet Bhagat	Atmen's device: monitoring endotracheal tube for obstruction in real time.	The company has developed endotracheal tube obstruction monitoring device. People with COVID19 has experience shortness in breath i.e. ARDS (Acute respiratory distress syndrome). All patients with this symptoms are intubated using endotracheal tube. Atmen's device is monitoring	Detection accuracy-From 10% of obstruction. Device will show result for every 10%. Like 10% blockage, 20% blockage, 30% blockage..... Operating voltage - 5V DC, Current required <1Amp, Batteries- 18650 Cell, Charging input- 9 to 12V	Abhijeet Bhagat abhijeet2426@gmail.com  Mobile- +918668609183, 8421782910	50000/Device, 1500/sensor	Received test manufacturing license from CDSCO.	NA-	Pune, Bangalore	Funding, Manufacturing facility	do not have our own manufacturing facilities but if we get manufacturing license then it can be done with the help of vendors..	Pilot study done and pivotal study is under process. product is not commercially available.  Interest received from few hospitals	Not Available

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				endotracheal tube for obstruction in real time. Presently clinicians monitor endotracheal tube manually which needs experience															
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Medical instrumentation/equipment

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18	Mother Diagnostic Systems	Karthik Somasundaram	Low cost Digital X-Ray detector with AI based lung abnormality detection	<p>We have designed (Ready for deployment) a lowcost Digital X-Ray detector with following specifications,</p> <p>1. It costs just Rs 7.0 Lakhs (Conventional Digital X-Ray priced Rs 35.0 Lakhs)</p> <p>2. It has same image quality as conventional Digital X-Ray</p> <p>3. It can automatically identify Covid-19 pneumonia</p> <p>We have completed the design, with few chest X-ray validations. It is ready for</p>	<p>1. Detector size - 13x11 inch</p> <p>2. Automatic Covid pneumonia detection</p> <p>3. Compatible with any type of X-Ray generator</p> <p>4. Complements with RT-PCR. (To rule out patients with negative RT-PCR results but with Covid symptoms) - Very important</p> <p>5. Covid-19 prognosis - Follow up Chest X-ray</p>	<p>Ph:+91740 6509322</p> <p>Email: get.karthiks@gmail.com</p>	<p>Rs 7.5 Lakhs/unit</p>	<p>Not certified. Certifications NOT required for use in India. - According to CDSO. According to FirstHub - CDSO persons advice, X-Ray DETECTOR is NOT listed in CDSO list of devices. So, if the image quality is acceptable to the doctor, they can buy and use it. Conclusion by CDSO - Certification is NOT mandatory for use in India</p>	<p>1 detector/day</p>	<p>Madurai/Tamil Nadu</p>	<p>Supply chain Important component to be sourced from,</p> <p>1. CMOS cameras - Germany</p> <p>2. Phosphor screen - USA</p>	<p>We need lens urgently, tracking number - CH130834235US.</p>	<p>Not yet, but ready for deployment in 20 days</p>	<p>No</p>
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19	Yodhha Kawach - PPE for the Healthcare workers (Yet not registered)	1. Dr Adil Khan Yusuf Zai 2. Arun TR 3. Balamurugan S 4. Naveen KT	One piece full-body suit with Protection and Ventilation (PAV) System.	Healthcare Personnel who are treating patients with COVID-19 are not completely safe and are prone to Hospital Acquired Infections. Covid-19 has so far claimed the lives of many doctors, nurses and ASHA workers in the country with the figures even more alarming in the western countries. The main reason for this is the compromised safety that the current technology provides. Therefore, we have designed a full-body suit that can provide full-body protection	<p><b>PPE</b> This disposable hospital gown keeps body fluids away from your clothes and establishes adequate personal hygiene during medical procedures, labor, pregnancy, chemotherapy, treatment, patient care activity.</p> <p><b>Care Instructions:</b> Disposable <b>Material:</b> SSMMS 70 GSM (Spun Bond Non-Woven Material + 20 GSM PP Laminated) <b>Lamination:</b> 20 GSM PP Lamination <b>Protection:</b> Blood, water &amp; chemical resistant <b>Design:</b> Full body cover-all design with inbuilt hood ensuring full protection for the user. <b>Unisex:</b> Can be used by both men and ladies alike due to its design, different sizes, and size adjusting elastings, even for obese users without compromising the safety or protection of the user. <b>Size:</b> Small ,Medium, Large</p>	Dr Adil Khan Yusuf Zai Phone- 8447218691 Email - 100adil@gmail.com	1500/suit inclusive of PAPR Note- Price negotiable for govt. procurements	PPE got tested by SITRA and it got the best results and ready to be mass manufactured.  User testing was done by giving few samples in different departments of AIIMS and a good feedback was given by doctors and nurses.	2000/day	SHI mediwear 93/13, Road No. 1A Munka Industrial Area, New Delhi 110041	We are looking for potential industrial collaborators to manufacture in masses.	N/A	Ready to be mass manufactured.	We are in the process of industrial collaboration for mass manufacturing which will happen anytime soon. Soon after agreement, we will apply for certification and put our production GEM portal.
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20	Aris ta Vau lt	Purvi Roy	We are using UV & Electro- optical rays technology in Shuddhi Series products , which is based on clean room technology for disinfection and sterlisation.	UV-C light is already being used in hospitals to disinfect surgical Equipment and clean rooms, throughout the world because it has been proven to effectively penetrate and disarm Viruses/bacteria. The light will sanitize any surface it touches. Shuddhi Box & Basket with the help of medical experts and scientists has adapted this technology to be portable and accessible to the average health care provider. Highly	We have innovated range of shuddhi products- 1. Shuddhi Box Range- This series have been awarded by Ministry of IT and Technology. We have developed this series keeping focus on most vulnerable device for germs and viruses i.e. Mobile. It contains 15 times more germs, viruses than a public washroom. So Shuddhi box series can disinfect Mobile, watch, rings, spectacle etc. in minutes and ensures safety of our health. It has Calibrated UV lamps with UVC rays which can sterlise whole 360 degree within minutes and it also comes with wireless mobile charging feature. It also has all NABL certifications. 2. Shuddhi Basket Range- This range was developed because Groceries, vegetables, fruits purchased from outside can contain the viruses. Cleaning these items with soap or detergent is cumbersome, so Shuddhi basket disinfect these in minutes as it comes with 18 ltr. capacity. It is foldable and take very less space. The basket has been made by Jute to make it eco friendly. it also contains 5W calibrated UV lamps having 10000 hours life span and one year warranty.	850583758 3 877037593 7 purvi@aristavault.com contact us @aristavault.com www.shuddhibox.com www.aristavault.com	INR 3500	We have obtained certification for shuddhi box 1. ROHS 2. Disinfectant efficacy test 3. Medical device test 60601 4. Mobile disinfectant efficacy testing these tests have been done by NABL labs.	2000	Kolkata	Funding, Supply chain	It would be great if we could have market access and collaboration opportunities to reach out to bigger Market and Distributors.	2500	Yes
21	Comofi Medtech Pvt Ltd	Satish Kalme	Transparent N95 mask and PPE kit	1. NT Connect mask. It is a transparent N95 mask that allows better visual communication with safety of N95 mask. It is a reusable mask. 2. Protect+ PPE kit Made	1. NT Connect mask. Transparent N95 mask Reusable mask. 2. Brand name: Protect+ PPE kit Made using 65 gsm SSMMS material. Best in class breathability for long time use. EtO sterilized kit. Cover all is hot air seam taped for >99.99% protection.	Phone: 9902302138 Email: contact@comofimedtech.com Website: www.co	Mask: 20 Rs + 5% GST and PPE Kit: 365 Rs+ 5% GST	Product is tested in an accredited lab for ASTM F1862, IS:16289:2014, and NOISH-42C FR84 Company has ISO1348	Masks are in stock, PPE kits: 2000 kits/day	Yelahanka and Peenya 2nd stage, Bangalore	None	Bulk orders	50,000 + units	Yes

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				using best in class breathable SSMS material with hot air seam taping.		modified tech. com		5 certification for these products.							
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## DBT-BIRAC COVID PRODUCTS – READY FOR VALIDATION/SCALE-UP

22	Infection Shield Biotech Pvt. Ltd.	Nitish Sathyanarayanan and Ashok Vohra	IShield	I Shield Or InfectionShield Biotech is a C-CAMP based deep-science start-up developing revolutionary "infection control" technologies. The company explored solutions to kill the pervasive virus and bacteria from April'20. Our team worked tirelessly during the lockdown 1.0 to bring out India's first self-sanitizing mask (proven again Covid-19 virus). Recently, I Shield has obtained regulatory approvals to market India's first "Long Lasting" Surface disinfectant	1) tekFABRIK FACE MASK - Anti-Viral, reusable, SITRA tested 2) tekCLEAN - Surface disinfectant spray active upto 72 hours, Kills 99% of Bacteria and Virus, Approved under drug class, 2) tekGLOVE - Hand Sanitizer active upto 4 hours, Kills 99% of Bacteria and Virus, Approved under drug class,	Nitish Sathyanarayanan - nitish@ishield.in - +91 8951731003 <a href="https://ishield.in/">https://ishield.in/</a>	1) tekFABRIK Antiviral face mask - MRP 199/-    2) tekCLEAN - 72 hour disinfectant - MRP (5 litres) - Rs. 1800    3) tekGLOVE MRP (5 litres) - Rs. 1800	1) Tested on SARS- Cov2 and H1N1 by RGCB, Trivandrum, 2) Respiratory Syncytial Virus (RSV) by University of South Florida 3) H1N1 by MBU, IISc - Bangalore 4) Bacteriophage by CCAMP 5) Broad spectrum anti bacterial (in-house) studies in our CCAMP incubated lab.	1) tekFABRIK Antiviral face mask - 10k units    2) tekCLEAN - 72 hour disinfectant - 10-25 tonnes    3) tekGLOVE 10-25 tonnes	Bangalore, Tiruppur (Tamil Nadu) and Ankleshwar (Gujarat)	Regulatory (very slow), access to government procurement cycles, connects to export market.	Still awaiting regulatory approval for one of our product (applied on 23rd of October 2020)	1000+ retail stores selling over half a million masks, over 20 tonnes of antiviral fabric and over 5 tonnes of disinfectant liquids in less than a month of launch.	Yes
23	Cureall Medicare OPC Pvt Ltd	Chandrasekaran Jayaraman	Reusable, sterilizable, unbreakable face shields	Unlike the disposable face shields which are made using films and are disposed everyday, our face shields are made of unbreakable transparent Polycarbonate sheets, formed to stay close to the face and also with cushion at the forehead.	Meets all requirements. 10"x12" x2" trapezoidal shield	9445104576 / cureall.medicare@gmail.com	300/-	Design IP from India received. 2000 shields already procured by Railway hospitals in Chennai during first wave	1000	Chennai	Orders, Government not ready to go for permanent products, rather only buy disposable shields which cause land fill and medical hazard if disposed without sterilization. This also	Making Government recognize such innovations and spread it first	2000	Yes

**DBT-BIRAC COVID PRODUCTS – READY FOR VALIDATION/SCALE-UP**

											gives the buyers an option to have a cut in each purchase, whereas ours stops them buying again. :)			
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## DBT-BIRAC COVID PRODUCTS – READY FOR VALIDATION/SCALE-UP

24	Biomoneta Research Private Limited	Janani Venkatraman, Arindam Ghatak	ZeBox Technology	<p>Biomoneta designs devices to prevent the spread of infection in healthcare spaces. Its proprietary, air decontamination technology synergistically combines electronics and air-flow design with novel anti-microbial materials to achieve microbial kills of over a billion-fold across a broad spectrum of microbes such as viruses, bacteria, fungi and spores. The devices powered by ZeBox Technology has proven to reduce environmental</p>	<p>ZeBox Technology powered devices are plug and play in nature and can be installed with minimum infrastructure. Two device variants are presently in production, ZeBox-Mini can cover upto 120sq ft while ZeBox-Mid can cover upto 300 sq. ft of area. Both devices can be plugged into regular 220VAC-5A power source and create a virtual near-sterile bubble near deployment sites post-operation.</p> <p>ZeBox-Mid Area Coverage: Upto 300 sq. ft Airflow rate: 150 CFM Noise: 54 dB(A) Power usage: 20 Wh Weight: 30 Kg Dimensions: ZeBox: 66cm x 35cm x 20 cm Stand Footprint: 40 cm X 45 cm Complete assembly height: 150 cm</p> <p>ZeBox-Mini Area Coverage: Upto 100 sq. ft</p>	<p>Arindam Ghatak: 9874185366 email: arindam@biomoneta.com Website: <a href="https://www.biomoneta.com/">https://www.biomoneta.com/</a></p>	<p>ZeBox-Mini: INR 35,000; ZeBox-Mid: INR 65,0005</p>	<p>ZeBox Technology has been validated for its biological efficiency at a NABL/ISO accredited lab. Devices has undergone clinical field trials for years in Hospital ICU settings (supported by BIRAC). CE Certified</p>	<p>15 units of ZeBox-Mini ; 5 units of ZeBox-Mid</p>	<p>Bangalore, India</p>	<p>Sourcing electronic components, interruption in work schedule due to lockdown</p>	<p>Help in terms of connecting to scale up partners, deployment in Govt run COVID Care Centre</p>	30	No
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