



25 Silver
Jubilee
1997-2022
SOIL TO SILVER



12
Years
Journey
Towards
Excellence

The Expanding Base of Deep-Tech Startups at KIIT TBI



SUPPORTED BY

DEPARTMENT OF SCIENCE AND
TECHNOLOGY, GOVERNMENT OF INDIA



विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY

IMPACT REPORT



FOREWORD

KIIT TBI has over the last 12 years made a concerted effort to work towards fulfilling its mandate of “Empowering and Enabling the Innovation Ecosystem”, particularly in the Eastern & North Eastern region of India. Setup as a Not-for-Profit, Section 25 Company with the support of DST, Government of India, the primary focus of KIIT TBI has been to Nurture Startups, facilitate Industry-Academia interactions, and promote student entrepreneurship in a large way.

Adoption of all the schemes of DST encompassing NIDHI EIR, Prayas, NIDHI SSS, NIDHI accelerator schemes has been an optimal fit in the repertoire of KIIT TBI's support toolkit towards strengthening its technology-led innovation and entrepreneurship support architecture. Particularly the DST NIDHI EIR & NIDHI Prayas has been instrumental in encouraging support to 41 and 61 novel concepts respectively. 31 startups have also benefited from the NIDHI Accelerator program to accelerate toward commercialization.

KIIT TBI has also partnered with the NSTEDB DST for the implementation of various special drive programs like DST CAWACH and DST NIDHI4COVID 2.0 for supporting indigenous solutions and innovative products to fight against COVID-19 pandemic. Many COVID-focused products have been launched in the market with the general support of DST.

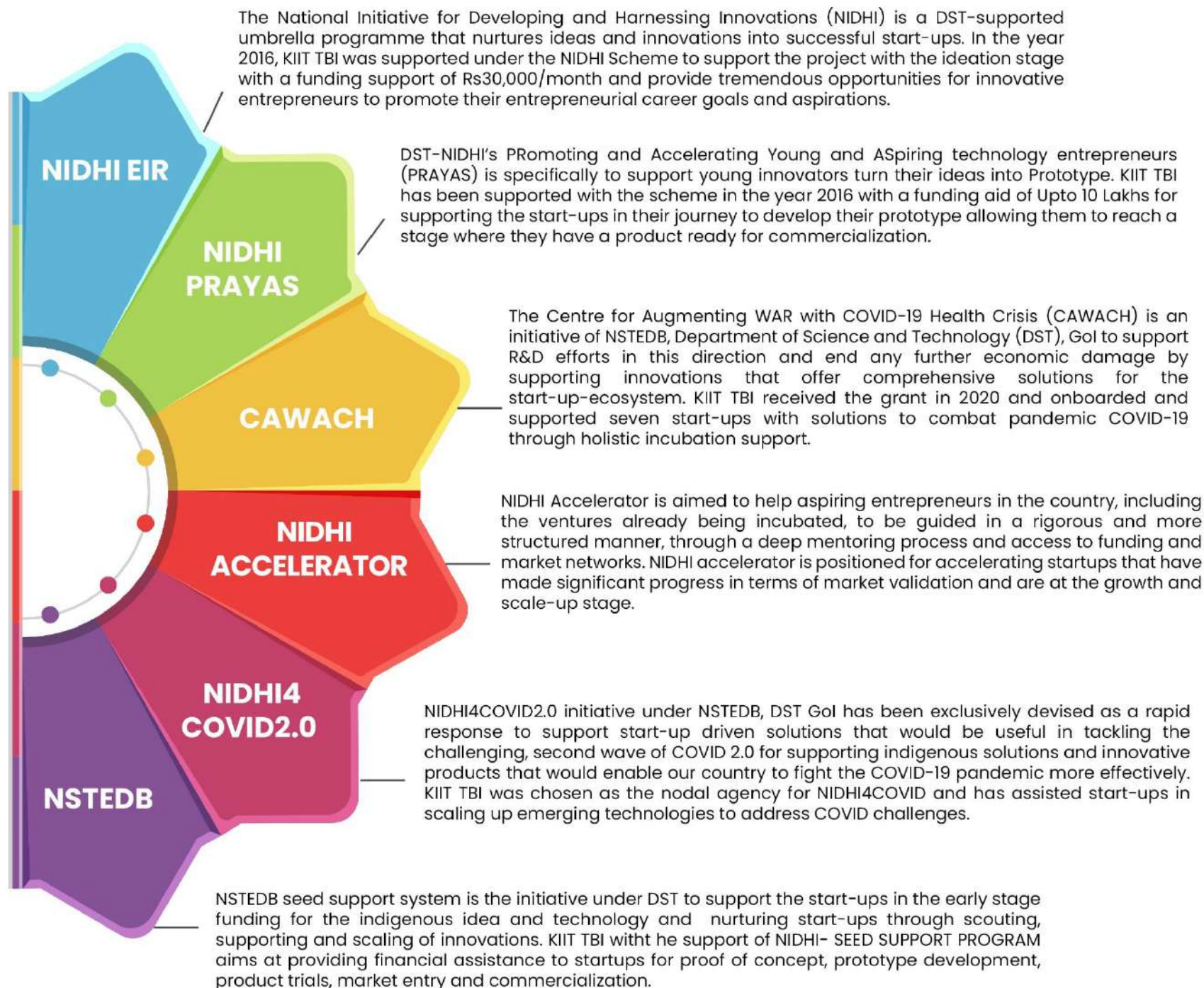
KIIT TBI COE houses a cutting-edge digital fabrication, Prayas Shala, with modern technologies for startups to build and deploy innovative products in areas critical to India's social and economic growth.

We are wholeheartedly grateful to DST for having acknowledged the efforts of KIIT TBI and bestowed the National Award for TBI of the year 2017 to KIIT TBI.



ECOSYSTEM AT A GLANCE

“Adoption of all the schemes of DST, GoI has been an optimal fit for the repertoire of KIIT-TBI Support toolkit.”



CREATING PIPELINE OF TECH DRIVEN STARTUPS

Impact Created & Continues to Expand with the Support of DST, GoI



Increasing Depth & Breadth in Sectors

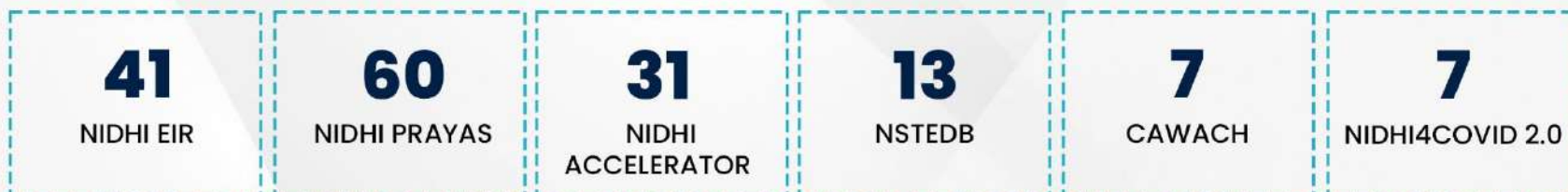


DST inculcating a culture of deep science focussed entrepreneurship

The Number Indicates DST Supported Startups State Wise

STARTUP PIPELINE

Startups accross diverse sectors at varying maturity levels

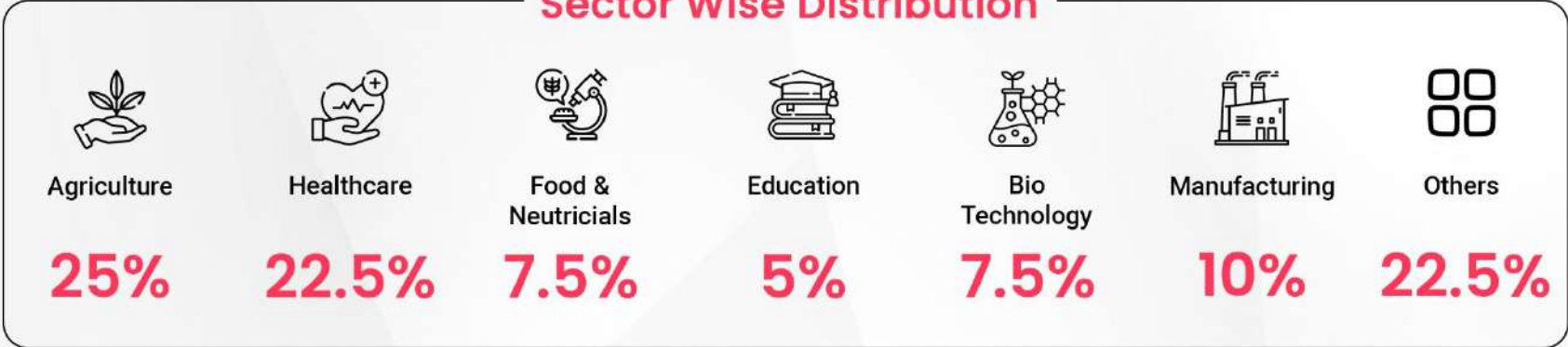


DST-NIDHI ENTREPRENEUR IN RESIDENCE (EIR)

Reflection on Trends



Sector Wise Distribution



Innovations Supported Year Wise



Stages of Technologies



DST-NIDHI EIR Supported Startups @ KIIT-TBI

Startup Name: Arttatran Sahu

Innovation: Universal Sensor Interface for IoT 2.0-Present project adapts to the needs of IoT applications and ensure any sensor data can be fed to the single chip that converts all the sensor data into Digital by means of a single ADC.

YOI: 2017

Startup Name: Macphy Solutions Pvt Ltd

Innovation: Solid state coolingbox/refrigerator system-We provide hybrid cold chain solutions for end point use with precise temperature control.

YOI: 2017

Startup Name: Pratap Behera

Innovation: CareNGrow-We have conceptualised a platform through which we can collect data about a child's health and growth parameters through non-invasive procedure.

YOI: 2017

Startup Name: Subhalaxmi Future Solutions Pvt Ltd

Innovation: Banking, National Security & Governance with BIOCODE-It is a revolutionary fool proof paperless, card less, cash less & document less innovative concept.

YOI: 2017

Startup Name: Upsoil Technologies (Opc) Pvt Ltd

Innovation: Makes Soil-Pen: A complete quantitative soil-analysis device with onsite results-Soil health management has been a long serious challenge in agriculture growth.

YOI: 2017

Startup Name: Aliva Innovation Pvt Ltd

Innovation: Symbags-The objective is to create a table and chair system so that it becomes easy for the kids to carry it along with the backpack.

YOI: 2017

Startup Name: Debendra Kumar Sethi

Innovation: iStick-iStick is a small portable device with high precision navigation using ip57 ultrasonic sensors and embedded GPS designed to assist visually impaired people.

YOI: 2017

Startup Name: H2m Food & Beverages Pvt Ltd

Innovation: H2M Beverage-The Company aims to deliver healthy nutritious beverages in a Ready-To-Eat/Drink format which has the ability to speed up the healing capacity.

YOI: 2017

Startup Name: Medurin Healthcare Pvt Ltd

Innovation: Artificial Intelligence based Health Data Analysis-Medurin is an Indian healthcare data analytics start-up with a primary objective of designing contemporary digital healthcare products powered by innovative technologies.

YOI: 2018

Startup Name: Praesus Technologies Pvt Ltd

Innovation: Smart Helmet-IOT We are building a smart, connected helmet that will have features like Accident Detection, Anti-theft, Live and Remote Tracking, Hands-free Navigation and Smartphone Charging.

YOI: 2018

Startup Name: Panda E Mobility; Skyrider Electric

Innovation: Personal Transport Vehicle (PTV)-PTV -(Personal Transport Vehicle) A three wheeled balanced, individual suspension electric vehicle made for all kind of roads and all kind of usage with capability to carry weight of 150 kg at a speed of 16-30 kmph with a battery capacity of 70km/charge,which can be used as a part of life for transportation.

YOI: 2018

Startup Name: Ather Innovations Pvt Ltd

Innovation: FOODBOTS - STREET FOOD VENDING MACHINES-We had developed the commercial model and prototypes of world's first portable food processing and vending machine for Lassi, Bhelpuri, Biryani, momo and panipuri.

YOI: 2018

Startup Name: Azeedo Private Limited

Innovation: Our proposed product is a bio-pesticide which is herbal, eco-friendly, cheap and has better affinity against pest. The product shall be prepared from Congress Grass.

YOI: 2019

Startup Name: Protionix Technology Pvt Ltd

Innovation: Our gollem kit will come with motors, different actuators, some sensors with Captain controller that has some dedicated and some programmable switches.

YOI: 2019

Startup Name: Larkai Innovations Pvt Ltd

Innovation: CardioTrack - A handheld cardiac abnormalities screening device based on acoustics.

YOI: 2019

Startup Name: Venom Plasma LLP

Innovation: VENOM - our Air De-Toxifier provides Bio-Oxygen Plasma. This contains unstable nascent oxygen, which is extremely oxidizing for pathogenic.

YOI: 2019

Startup Name: Feit Solutions Pvt Ltd

Innovation: A diesel fuel additive was invented which improves atomization of diesel fuel during high pressure injection event.

YOI: 2019

Startup Name: Sanlop Healthcare Solution Pvt Ltd

Innovation: UTI-AMR Kit: Rapid phenotypic on site diagnostics.

YOI: 2019

Startup Name: Mere Edu Services Pvt Ltd

Innovation: AI/ML enabled counselling platform to help a student/parent in order to plan his/ her higher education in India/Overseas.

YOI: 2019

Startup Name: Frugal Sphere Pvt Ltd

Innovation: Venepuncture Guide A vein detector can be made equipped with mechanisms to detect the depth of veins which can help determining a suitable superficial vein and also can have an actual response system to notify successfully.

YOI: 2019

Startup Name: Chem Acura Pvt Ltd

Innovation: A simple palm-held colorimetric paper analytical device (PAD) for heavy metal detection.

YOI: 2020

Startup Name: Bio Filium Pvt Ltd

Innovation: A technology by which bacteria can be engineered to fabricate composite biomaterials which will be the ideal sustainable alternative for existing materials like leather which is neither biodegradable nor humane.

YOI: 2020

Startup Name: Orassia Biotechnology Private Limited

Innovation: Fermented products from local millets of Odisha

YOI: 2020

Startup Name: Shikha Behera

Innovation: Digital stethoscope

YOI: 2022

Startup Name: Iuva Foods Private Limited

Innovation: Precision fermentation for creating dairy proteins for dairy products – without cows

YOI: 2021

Startup Name: Aishwarya Khamari

Innovation: RHYTHMOMETER FOR PLANTS (PEG OF PLANTS)

YOI: 2021

Startup Name: Darubrahma Automation Robotics Private Limited

Innovation: Title: A drone for Military, Agriculture, Natural Disaster and Hazard Management.

YOI: 2021

Startup Name: Dundi Electronics And Electricals (Opc) Private Limited

Innovation: Fuel less intelligent Bike.

YOI: 2021

Startup Name: Aptinnov Labs Pvt. Ltd.

Innovation: latex carry knapsack to collect the natural rubber cultivation industry.

YOI: 2021

Startup Name: Droaerody Pvt Ltd

Innovation: "Krishi PS-1925® - Drone for Climate-Smart Agriculture and Precision Spraying

YOI: 2021

Startup Name: Smpps Electric Control Private Limited

Innovation: "Design, detailed engineering and prototype development of "Smart CP Converter" module, which is suitable for corrosion protection of metal structures.

YOI: 2021

Startup Name: Shikha Singh

Innovation: To make low-cost temporary utensils using plant leaves.

YOI: 2022

Startup Name: Saikat Ghosh

Innovation: Medical electrodes are majorly implemented in electrocardiogram (ECG) monitoring devices for the diagnosis of cardiac disorders

YOI: 2022

Startup Name: Pintu Sarkar

Innovation: Development of low-cost combined bio-electronic devices for industrial wastewater treatment.

YOI: 2022

Startup Name: Avinash Kumar/Yarev Technology Private Limited

Innovation: A photo reactor that can provide all the necessary parameter for photochemical reaction in both large and small scale.

YOI: 2022

Startup Name: Kerthika Devi A

Innovation: To develop a sustainable alternative for the existing synthetic dyes from an algal source.

YOI: 2022

Startup Name: Alisha Zaffar

Innovation: Production of slow-release fertilizer as struvite from wastewater by electrocoagulation to attain circular bioeconomy

YOI: 2022

Startup Name: Abhinav Gupta

Innovation: POCET-Lab (Point-Of-Care Cartridge-based Emergency Testing Lab)

YOI: 2022

Startup Name: Abdul Ansari

Innovation: A robotic and computer vision guided automated video laryngoscope for use by inexperienced healthcare personnel to perform life-saving tracheal intubations in emergency situations.

YOI: 2022

Startup Name: Sarath Babu

Innovation: High Speed Drone Motor

YOI: 2022

Startup Name: H2m Food & Beverages Pvt Ltd

Innovation: H2M Beverage-The Company aims to deliver healthy nutritious beverages in a Ready-To-Eat/Drink format which has the ability to speed up the healing capacity.

YOI: 2017

DST-NIDHI PROMOTING & ACCELERATING YOUNG & ASPIRING TECHNOLOGY ENTREPRENEURS (PRAYAS)



Reflection on Trends

Sector Wise Distribution



Agriculture

9.83%



Healthcare

37.7%



Manufacturing

9.83%



Cleantech

13.11%



IoT/ Electronics

22.9%



Defense

3.28%



Automation

3.28%

10

Calls Announced

492

Applications
Received

44

IPs Created

37.676 Cr

External Investment
Raised

3.75 Cr

Total Funds
Mobilized

22

Products
Commercialized

Innovations Supported Year Wise



Stages of Technologies

25.8%



Ideation

11.29%



Early Prototype
Developed

25.8%



MVP

37.09%



Products
Commercialised

DST-NIDHI PRAYAS Supported Startups @ KIIT-TBI

Startup Name: Orduino Labs Pvt Ltd

Innovation: Smart Sensor for fuel telematics Fuel level sensor is designed for precision fuel level measurement in all kinds of vehicle tanks, also in tanks of fixed installations.

YOI: 2017

Startup Name: Learnitude Technologies Pvt Ltd

Innovation: A cloud-based healthcare application that enables secure-data capture, analytics and transmission of school children health records.

YOI: 2017

Startup Name: Orbonix Labs Pvt Ltd

Innovation: SampleTrack

YOI: 2017

Startup Name: Tycheejuno Speciality Tyres Pvt Ltd

Innovation: BPPC Tyre for scooter to save from puncture & burst

YOI: 2017

Startup Name: Etrix Technologies Pvt Ltd

Innovation: A communication tool, which blends the conventional video calling with augmented hand gesture & real time screen annotation on an Augmented Reality Head Mounted Display glasses.

YOI: 2017

Startup Name: Mukesh Kumar Sukla

Innovation: System Prototype for Multimode Environment Sensor

YOI: 2017

Startup Name: Envitek Innovation Pvt Ltd

Innovation: REVOLUTIONIZED HOUSEHOLD ORGANIC PROCESSING SYSTEM

YOI: 2017

Startup Name: Forestica Booty Pvt Ltd

Innovation: EASYdatun

YOI: 2017

Startup Name: Ecliron Innovations Pvt Ltd

Innovation: A high intensity beams of light are scattered from the incoming vehicle by polarisation of very specific pixels present in the windshield. The light is blocked from directly falling into the driver's eyes without completely blocking visibility of the road.

YOI: 2017

Startup Name: Udiyate Technologies Pvt Ltd

Innovation: IOR based beverage bot

YOI: 2018

Startup Name: Xbionic Labs Pvt Ltd

Innovation: A smart wearable device that will be with the animal calibrating & calculating all the health vitals from the animal.

YOI: 2018

Startup Name: Automaton Robotics and Automation Pvt Ltd

Innovation: 5-Axis 3D printing and CNC milling Hybrid Workstation

YOI: 2018

Startup Name: Miraqules MedSolutions Pvt Ltd

Innovation: Easy Applicable First Aid Essential- A Bleeding Stopper

YOI: 2018

Startup Name: SHIV SANKAR SAHU

Innovation: SOLAR ABSORPTION AIR CONDITIONER

YOI: 2018

Startup Name: Sarala Powertech Consulting Engineers LLP

Innovation: Design, Prototyping of a Low Cost Reliable Hybrid Energy System Based Nano Grid for Smart Homes

YOI: 2018

Startup Name: Makk curatives Pvt Ltd

Innovation: DiagnoCAP- Redifining diagnostic sampling

YOI: 2018

Startup Name: Inventgrid India Pvt Ltd

Innovation: SURESTOVE-A Next generation Smart Stove

YOI: 2018

Startup Name: Minionlabs India Pvt Ltd

Innovation: Minion - The World's Smallest Energy Auditor

YOI: 2019

Startup Name: BNG Spray Solutions Pvt Ltd

Innovation: Highly Fuel Efficient Industrial Furnace Burner

YOI: 2019

Startup Name: Whiteshark Energy Pvt Ltd

Innovation: Smart Solar Inverters

YOI: 2019

Startup Name: GR Agritek Labs Pvt Ltd
Innovation: Management of Crop Diseases via Drone Assisted Detection of Pheromones and Kairomones in a Cotton Farming Land
YOI: 2019

Startup Name: Ezerx Health Tech Pvt Ltd
Innovation: Non-invasive non-contact kit for hemoglobin, bilirubin, oxygen saturation measurement
YOI: 2019

Startup Name: Aninda Sircar
Innovation: Green Energy Regeneration and Cooling
YOI: 2019

Startup Name: Uvarani Rajamani
Innovation: A Non-invasive Tool for Early Detection of Diabetes Using Iris Image
YOI: 2019

Startup Name: Neukelp Innovation Technology Pvt Ltd
Innovation: Neukelp Posture
YOI: 2019

Startup Name: Krakel Healthcare Pvt Ltd
Innovation: Screening and Diagnosis of Pneumonia in Children by Lung Sound Abnormality with Non-Invasive Device
YOI: 2019

Startup Name: Enigma Motors Pvt Ltd
Innovation: Fast Charging Battery pack
YOI: 2019

Startup Name: Praesus Technologies Private Limited
Innovation: Altor-The Smart Helmet
YOI: 2019

Startup Name: Yos Home Appliance Pvt Ltd
Innovation: Starch & arsenic reducing rice cooker
YOI: 2019

Startup Name: HFIL Technologies Pvt Ltd
Innovation: Smart Energy Meter
YOI: 2019

Startup Name: Aether Innovations Pvt Ltd
Innovation: Multi-cuisine vending machine
YOI: 2019

Startup Name: Inochi Care Pvt Ltd
Innovation: Vacon: An indigenous low cost negative pressure wound healing device for trauma wounds
YOI: 2019

Startup Name: Swayogya Rehab Solutions Pvt Ltd
Innovation: Miknee- A chondroprotective knee health monitoring orthosis for Osteoarthritic Elderly
YOI: 2019

Startup Name: Terracraft Agritech pvt ltd
Innovation: krishiBOT- A smart Agriculture robot
YOI: 2020

Startup Name: Aerostrovilos Energy Pvt. Ltd.
Innovation: Multi fuel Micro gas turbine for local power generation
YOI: 2020

Startup Name: INOFINITY RESEARCH AND DEVELOPMENT PRIVATE LIMITED
Innovation: SANJIVANI: Compression Only Life Support (COLS) Assist Gadget for Community use
YOI: 2020

Startup Name: Sanlop Healthcare Pvt. Ltd.
Innovation: UTI-AMR Kit: Rapid phenotypic on site diagnostics
YOI: 2020

Startup Name: Inventus Bioenergy Pvt. Ltd.
Innovation: Microbial Electrochemical Cells based plastic recycling into value added products
YOI: 2021

Startup Name: Nexus Power Pvt. Ltd Felis leo widgets Private Limited
Innovation: Fast charge rechargeable bio-organic and bio-degradable batteries from Crop Residue
YOI: 2021

Startup Name: Assistaid Healthcare Private Limited
Innovation: Handheld device to measure muscle strength
YOI: 2021

Startup Name: Ethought Technologies (opc) Private Limited
Innovation: TOILET SUPPORT ASSISTING ASSEMBLY FOR ELDERLY OR DISABLED PERSONS
YOI: 2021

Startup Name: Shyama Projection Engineering And Research
Innovation: 3-AXIS STABILIZED BIPOD MOUNT
YOI: 2021

Startup Name: Symbiorph Medical Innovations Pvt. Ltd
Innovation: Mission iLiveIndia-10L/min High Pressure Oxygen Concentrator
YOI: 2021

Startup Name: Metnmat Innovations Pvt. Ltd.
Innovation: A High performance wear solutions for crushing and grinding applications.
YOI: 2021

Startup Name: K First Biotech Pvt. Ltd.
Innovation: A Impregnated Disposable Baby Tooth Cleaning and Gum Massaging Device
YOI: 2021

Startup Name: Ripple healthcare Pvt Ltd
Innovation: A more effective and acceptable way to prevent hip fractures in the elderly due to falls.
YOI: 2021

Startup Name: Oska Technology Pvt. Ltd
Innovation: Medimemo- a smart IoT solution which not only reminds the patients for the medication
YOI: 2021

Startup Name: Kheti Key Edaphone Pvt. Ltd.
Innovation: IoT based Integrated Crop Management System to ensure Food Security.
YOI: 2021

Startup Name: RN Biomedical Pvt Ltd
Innovation: Cranio-mandibular Brace: A novel device for Myo-facial Pain Dysfunction Syndrome (MPDS)
YOI: 2021

Startup Name:Workoff Industries Pvt. Ltd.
Innovation: Agropac- converting crop residues (corn cob, corn stalk, rice husk, rice straw) into self binding natural fiber through mechanical process.
YOI:2021

Startup Name: CLUIX LIMITED LIABILITY COMPANY
Innovation: Development of a "Hand held IOT device Prototype for Multiple Water Quality Parameter Testing"
YOI: 2022

Startup Name: LEOFELIS INSTRUMENTS PRIVATE LIMITED
Innovation: Unmanned Surface Vessel - Fish Feeding System
YOI: 2022

Startup Name: Surjeet Singh Gour Iveys Innovations Private Limited
Innovation: Automation of Welding Machines
YOI: 2022

Startup Name: iSAT System Pvt Ltd/ Mridul Kumar Sarkar
Innovation: iSAT Smart Glass
YOI: 2022

Startup Name: Newrup tech solutions pvt ltd
Innovation: Venticook
YOI: 2022

Startup Name: Betapoint technologies pvt ltd
Innovation: Multiroom Wifi Audio Speaker
YOI: 2022

Startup Name: Mini Mines Cleantech Solutions Pvt. Ltd.
Anupam Kumar
Innovation: MINI MINES: A sustainable approach towards Battery Recycling-an effort to Make India self reliant.
YOI: 2022

Startup Name: Dr Dipankar Laboratories Pvt Ltd/
Dipankar Kalita
Innovation: Novel and cost-effective technology for organoleptic preservation, and standardization of the heritage Assamese rice beverage for commercialization
YOI: 2022

Startup Name:DARUBRAHMA AUTOMATION ROBOTICS
PVT.LTD/Rajendra Prasad Das
Innovation: PLATYRHYNCHOS VEHICLE
YOI: 2022

Startup Name: SWAYM MED TECH PVT LTD
Innovation: Universal Belt for Instant 12-lead Diagnostic ECG
YOI: 2022

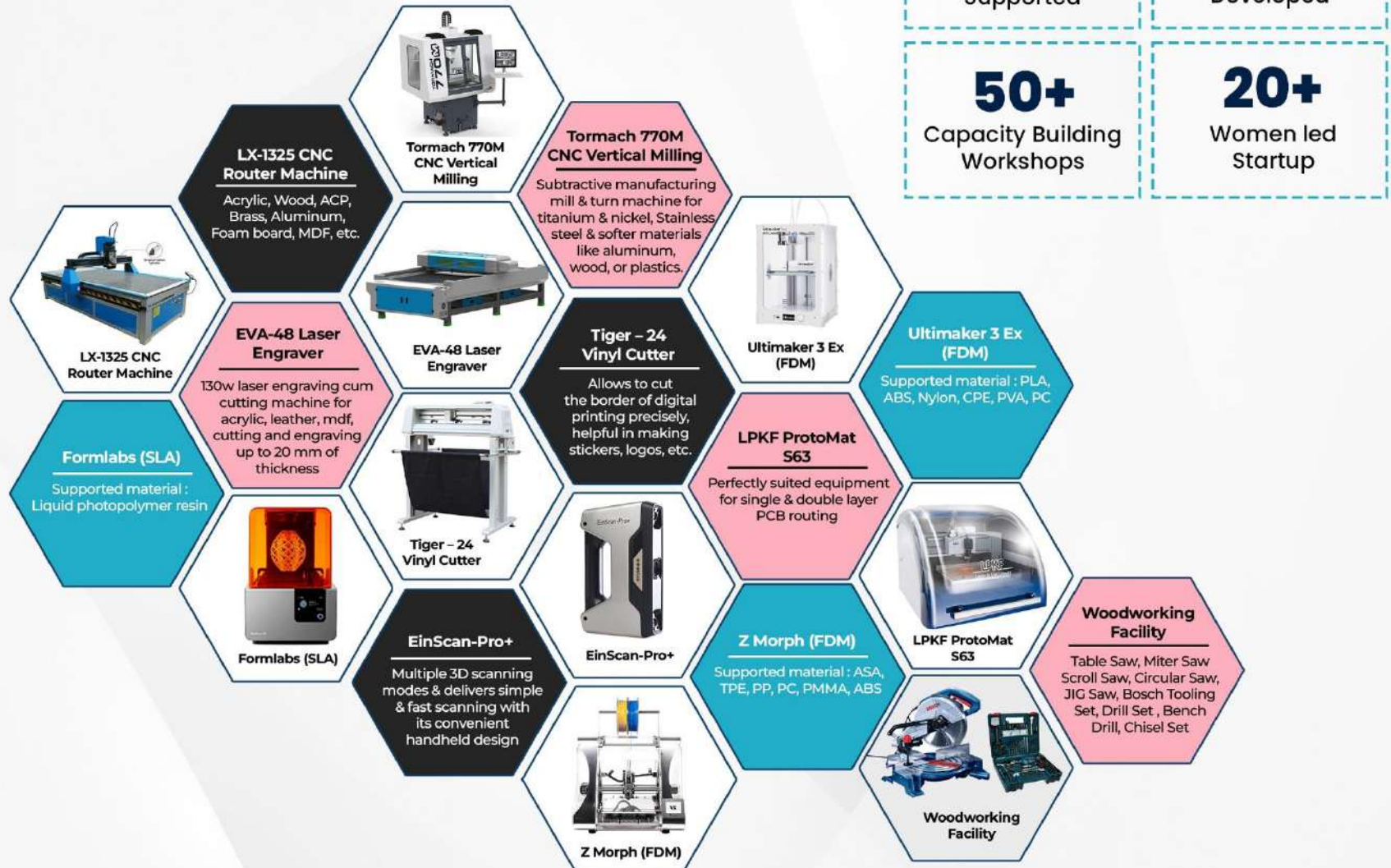
Startup Name: Cellerite systems Pvt Ltd/SrujanaRaghupatruni
Innovation: Bidirectional charging of battery energy storage systems
YOI: 2022

DST-PRAYASHALA

The Space to Innovate and Grow

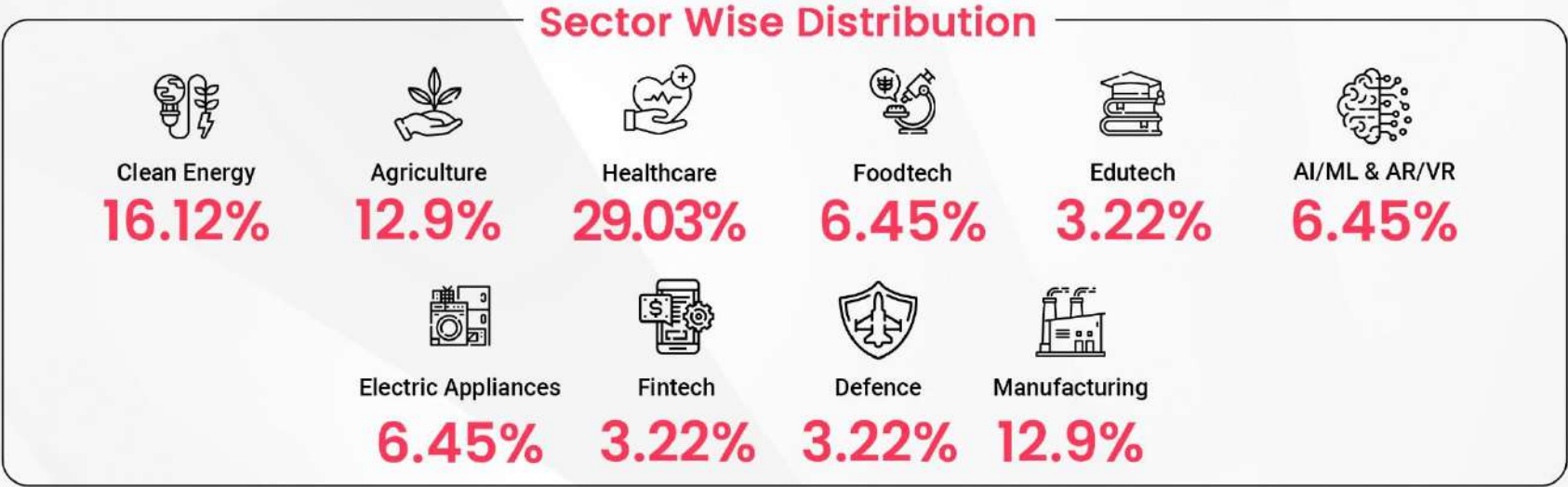
DST Prayas Shala at KIIT-TBI under the aegis of NIDHI PRAYAS, Department of Science and Technology (DST), GoI, provides an integrated platform for rapid prototyping, product design and technology development for the innovators. This 4000 square feet facility houses a high precision laser cutting machine, a CNC router, 3D printers, advance electronics assembly, wood working and power tools, PCB design and fabrication machine and many other tools and equipment. Employing the aforementioned facilities, entrepreneurs and innovators can churn out acrylic based, glass-based and wood-based prototypes with ease. The Fablab Academy is an initiative under Prayas Shala that will facilitate a cross-learning culture among multiple technology sectors and create a robust platform for budding young entrepreneurs to create technology-driven indigenous products while facilitating the user community of startups, entrepreneurs, corporate, individual makers, research groups, academic institutions, and universities across India. It helps to create a vibrant ecosystem for young techno-entrepreneurs who want to develop their innovative technology ideas into product prototypes with fine design functionalities.

The KIIT-TBI Fablab's goal is to promote innovation, idea realisation, technology development, product prototyping, and commercially viable product development which would empower the spirit of entrepreneurialism with a plat form of innovation of indigenous technology.



DST-NIDHI ACCELERATOR

Startups are leveraging accelerator program to scale up



Stages of Technologies



NIDHI ACCELERATOR COHORT 1 @ KIIT-TBI



NIDHI ACCELERATOR COHORT 2 @ KIIT-TBI



DST-NIDHI ACCELERATOR Supported Startups @ KIIT-TBI

Startup Name: X-Bionic Labs Pvt Ltd

Innovation: Innovating a smart wearable device for cattle to predict the real-time health data & predictive diseases, estimates approximate milk production.

YOI: 2018

Startup Name: Ameliorate Biotech Pvt Ltd

Innovation: Building a Single diagnostic device that can detect malaria, dengue & Chikungunya infections at one go on the very first day of a symptom.

YOI: 2018

Startup Name: Bariflo-Labs Pvt Ltd

Innovation: Developing effective, affordable and sustainable solutions; for rejuvenation and maintenance of agricultural, aquacultural, wastewater treatment and drinking water bodies, and it's associated systems; reversing collateral damages resulting from anthropogenic activities by AI & IoT.

YOI: 2018

Startup Name: H2m Food And Beverages Pvt Ltd

Innovation: Manufacture food products incorporating the nutritious countryside ingredients and reformat them as per the needs of the modern day consumer, giving it a global taste.

YOI: 2018

Startup Name: Etrix Technologies Pvt Ltd

Innovation: Product BlinkIN Expert leverages AR-ML to convert the conventional audio tech support call into more intuitive and efficient visual support.

YOI: 2018

Startup Name: Lecturenotes Technologies Pvt Ltd

Innovation: A platform for teachers to share their notes, questions and other educational supplements with students and help the student learn better without the need for any external tuition and at their convenient time and place directly through their laptops or mobile phone.

YOI: 2018

Startup Name: Olva Technologies Pvt Ltd

Innovation: Product CropsCare using AI to recognize every disease, pest and deficiency leave behind a specific pattern.

YOI: 2018

Startup Name: Slick Account Pvt Ltd

Innovation: An intelligent cash flow forecasting & money management software that reduces 70% of decision making time for small business owners & startup founders.

YOI: 2018

Startup Name: Udiyate Technologies Pvt Ltd

Innovation: Works on solving problems related to climate change, food & beverage processing and agriculture using technologies such as IoT, Robotics, AI & Mobile tech.

YOI: 2018

Startup Name: Imito Technology Pvt Ltd

Innovation: Creating a system that converts conventional LED-based OOH advertising boards (billboards, transit advertising, alternative category, and street furniture) into sensor-based IOT/cloud-connected smart LED boards.

YOI: 2018

Startup Name: Inochi Care Pvt Ltd

Innovation: A healthcare start-up with a vision to provide quality wound care products for complete healing of medically complex wounds like diabetic foot ulcers and pressure ulcers (bed sores).

YOI: 2018

Startup Name: Oeuvre Technologies and Consulting Pvt Ltd

Innovation: Created a one-stop solution for all healthcare needs of Indians that can totally revolutionize the way healthcare is delivered, keeping in mind the ecosystem that currently prevails in the healthcare domain

YOI: 2018

Startup Name: Yos Home Appliance Pvt Ltd

Innovation: Manufacturer of innovative consumer appliances which reduces starch & arsenic in rice by automating its cooking process based on Indian tradition and thereby reduces diabetes and cancer incidence.

YOI: 2018

Startup Name: EzeRX Health Tech Pvt Ltd

Innovation: A Non-Invasive, Non-Contact Robust Portable Hand-held device for Accurate Measurement of Bilirubin Level, Haemoglobin Concentration and Oxygen Saturation and provides instant results.

YOI: 2018

Startup Name: Prakrika technology Pvt Ltd

Innovation: Helps in saving energy using smart devices connected with the electrical and electronics appliances at places such as home, office, hospitals, hotels, commercial space etc.

YOI: 2019

Startup Name: Azeedo

Innovation: Working on herbal, eco-friendly, cheap bio-pesticide that has better affinity against pest prepared from a weed called Congress Grass.

YOI: 2019

Startup Name: Jan Elaaj Healthcare Pvt Ltd

Innovation: Building a smart, next-generation, affordable and trusted platform, where, using AI and early detection of diseases if possible, they can be subsequently advised to take the timely scans, tests and treatment at designated health professionals and primary care centers.

YOI: 2019

Startup Name: Tan90 Thermal Solutions Pvt Ltd

Innovation: A portable cold storage box with its unique IP that simplifies the transportation of temperature-controlled products from the farm-to-fork and in last-mile delivery for high-value products.

YOI: 2019

Startup Name: Nexyite

Innovation: Built Human Interactive Interface systems (HII Systems) which is a combination of the smart digital kiosk and digital billboard.

YOI: 2019

Startup Name: ML Green Projects Pvt Ltd

Innovation: Working on designing solar modules with a certain setup that doesn't hamper the soil health and enables farming beneath the panels.

YOI: 2019

Startup Name: Comofi Medtech Pvt Ltd

Innovation: Working on a precision surgery robotic arm that would help the surgeons in delivering the successful results in the critical and medical emergency situations.

YOI: 2019

Startup Name: BNG Spray Solutions Pvt Ltd

Innovation: A patented spray technology that enables up to 50% more efficient fuel combustion in the industrial burners furnaces.

YOI: 2019

Startup Name: Terracraft Agritech Pvt Ltd

Innovation: Developing a smart agriculture robot for precision farming to tackle the issues faced by small and marginal sized farmers in India due to unavailability of cheap manual labour, unaffordable tractors and its accessories and lower crop productivity.

YOI: 2019

Startup Name: Enigma Motors Pvt Ltd

Innovation: Working on building affordable high-performance last-mile delivery solutions that have an upfront cost similar to the IC Vehicles

YOI: 2019

Startup Name: Automaton Robotics And Automation Pvt Ltd

Innovation: Manufacturing a cost-effective and user-friendly hybrid CNC milling cum 3D printing workstation with both automation and manual adjustments.

YOI: 2019

Startup Name: Epvi New Technological Epoch Pvt Ltd

Innovation: An AR-VR company providing virtual try on plugin for e-commerce and resellers.

YOI: 2019

Startup Name: Lvl Alpha Pvt Ltd

Innovation: A Defense Tech company building a HadEON©, an integrated damage control system and a single platform future proof customized automated system for defense countermeasures and human security.

YOI: 2019

Startup Name: Neukelp Innovation Technology Pvt Ltd

Innovation: Developing an electronic device to detect bad posture and alert users when they are slouching. The device helps in improving the posture and preventing slouching.

YOI: 2019

Startup Name: Aether Innovations Pvt Ltd

Innovation: Built the automated vending system that delivers street food and beverages such as Bhelpuri, Chaat, Lassi and Biryani.

YOI: 2019

Startup Name: SunEmison Pvt Ltd

Innovation: Built a solar glass to convert the solar energy from the traditional building installations optimizing two different aspects at the same time, namely electricity production, thermal insulation.

YOI: 2019

Startup Name: Etrix Technologies Pvt Ltd

Innovation: Product BlinkIN Expert leverages AR-ML to convert the conventional audio tech support call into more intuitive and efficient visual support.

YOI: 2018



DST-CENTRE FOR AUGMENTING WAR WITH COVID-19 HEALTH (CAWACH)

COVID related DST supported solutions



Startup Name: Prantae Solutions Pvt Ltd

Innovation: Developing low cost COVID-19 antibody based diagnostic Kit EyeRa® with testing result in 5 mins as compared to the existing ELISA method of testing that takes 2-3 hours.

YOI: 2020

Startup Name: ComofiMedtech Pvt Ltd

Innovation: Manufacturing affordable NT-Mask with thermoformed front housing for easy swab access and 100% clear view during sampling suitable for all clinical settings.

YOI: 2020

Startup Name: Chimera Translational Research Fraternity Pvt Ltd

Innovation: Developing an optimized dose of COVID-19, antibodies to alleviate the disease helping patients to recover quickly.

YOI: 2020

Startup Name: Rmmedi Innovations Pvt Ltd

Innovation: Deploying their innovatively developed protective goggles which comes as a part of the PPE kits at an affordable rate.

YOI: 2020

Startup Name: Huwel Lifesciences Pvt Ltd

Innovation: Developed COVID-19 Detection Kit (Real Time Quantitative PCR Kit) and now Scaling up the production.

YOI: 2020

Startup Name: Eta Purification Pvt Ltd

Innovation: Developing COSMO (Complete Sterilization by Micro-plasma Oxidation), reducing the concentration of infectious bacteria and virus (including Norovirus) to >99.9% (>3 log).

YOI: 2020

Startup Name: Thinkerbell Labs Pvt Ltd

Innovation: Developing a low-cost IR Thermometer that can sync collected temperature datas on to a visualization dashboard in real-time to predict region-specific COVID-19 cases.

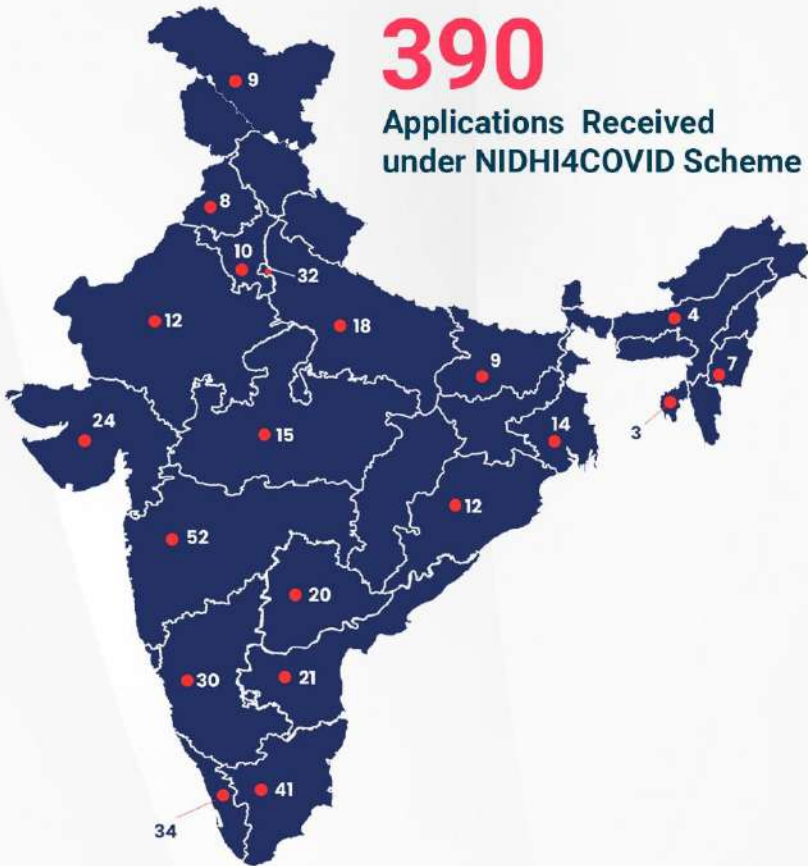
YOI: 2020

DST-NIDHI4COVID2.0

COVID Related Interventions



Startups developing solutions for varied COVID problems

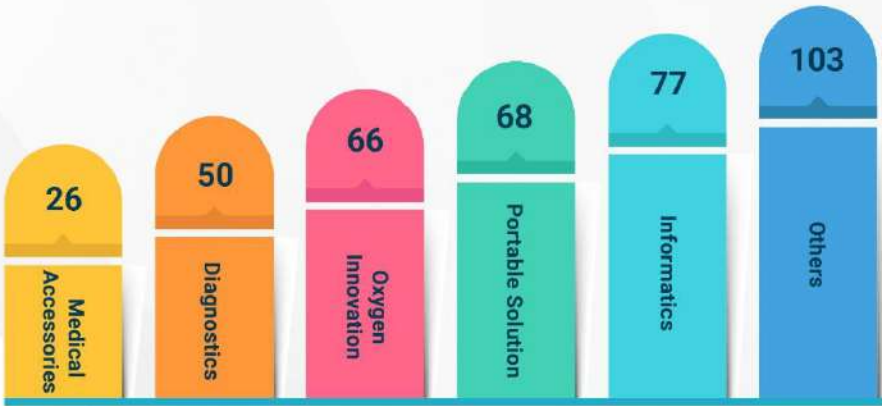


Total Corpus of Fund

1088.17 Lakhs

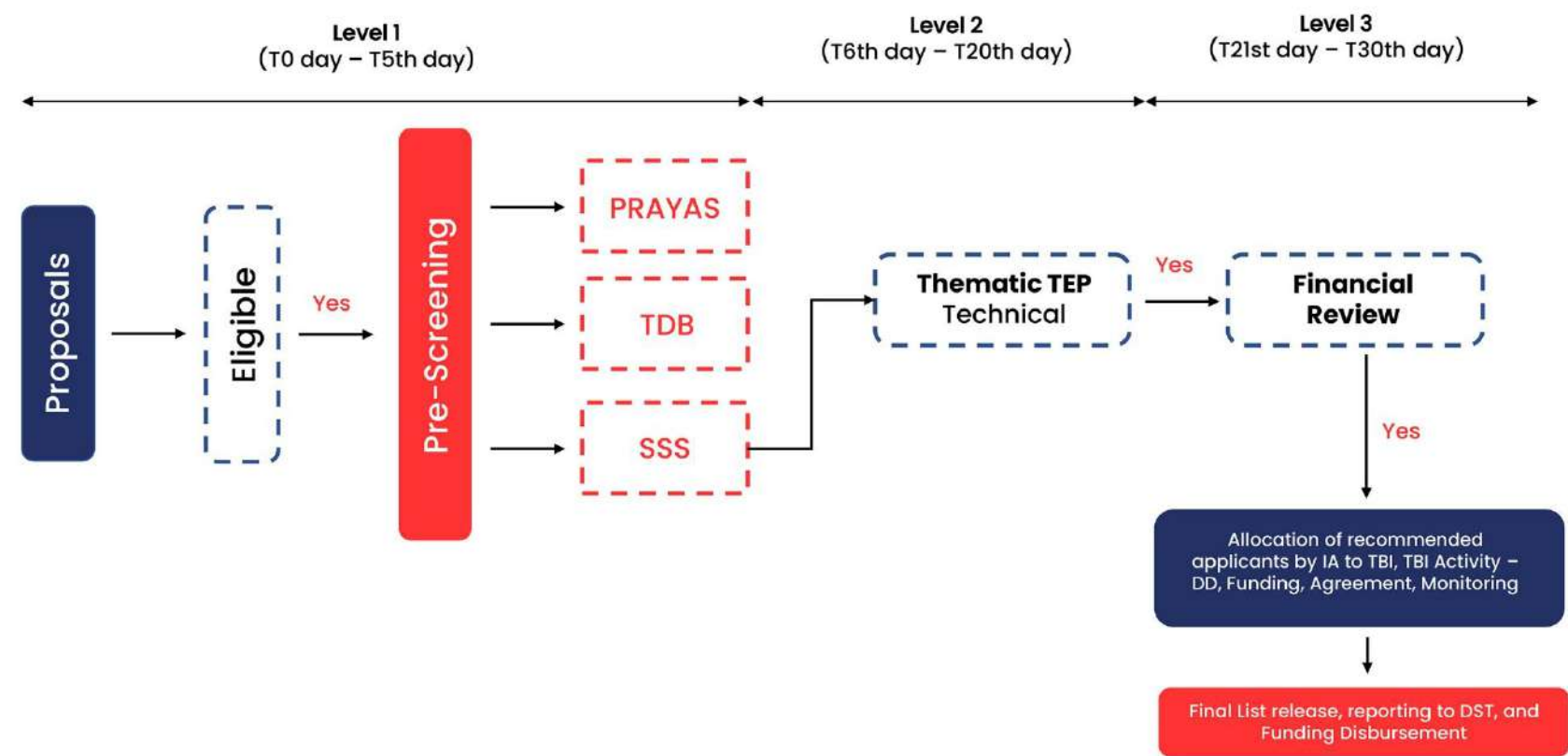
Startups Supported
35

Participating Satellite Centre
19



Proposals Received Across The Themes

Selection Process



NIDHI4COVID Supported Startups

Startup Name: Ameliorate Biotech Pvt Ltd
Innovation: Rapid diagnostic device for detection of COVID-19 Antigen
YOI: 2017

Startup Name: Qawach Bio Pvt Ltd
Innovation: InstaCOVID Ag: Easy home antigen test for COVID-19 detection
YOI: 2021

Startup Name: Symbiorph Medical Innovation Pvt Ltd
Innovation: iLive: 10L/min High Pressure Oxygen Concentrator
YOI: 2021

Startup Name: Biodesign Innovation Labs Pvt Ltd
Innovation: RespirAID: Automated Respiratory Assisting Device
YOI: 2022

Startup Name: Medcuore Medical Solutions Pvt Ltd
Innovation: ARIA - Smart Oxygen Concentrator
YOI: 2022

Startup Name: Dhanvantri Biomedical Pvt Ltd
Innovation: Sahayatha- A convertible wheelchair cum bed for the mobility-impaired
YOI: 2020

Startup Name: MinionLabs India Pvt Ltd
Innovation: MinionLabs UV Saaph
YOI: 2019

Startup Name: Impilo Sensys Pvt Ltd
Innovation: Contactless health screen (HSMM)
YOI: 2022

DST-NSTEDB SEED SUPPORT SYSTEM

No of startup supported **13**



NSTEDB Supported Startups

- Startup Name:** Maiestas Technology Pvt Ltd
Innovation: Fabrication of low cost led lights and solar panels.
YOI: 2014-15
- Startup Name:** Innocule Materials & Additives Pvt Ltd
Innovation: Bringing efficiency to Mineral Processing Chemical solutions for mineral operations
YOI: 2014-15
- Startup Name:** InDNA Life Sciences Pvt Ltd
Innovation: Genomic solution based single platform for DNA investigation
YOI: 2014-15
- Startup Name:** Bionivid Technology Pvt Ltd
Innovation: BIONIVID- A GENOME "based IT" platform which specializes in NGS based applications and analytics.
YOI: 2014-15
- Startup Name:** Kalinga renewable energy manufacturers Pvt. Ltd (karma)
Innovation: Manufacturing cost-effective machinery using solar panels with the principle of Sustainable Development.
YOI: 2014-15
- Startup Name:** Etrix Technologies Pvt Ltd
Innovation: A next generation communication tool, which blends the conventional video calling with augmented hand gesture & real time screen annotation on an Augmented Reality Head Mounted Display glasses.
YOI: 2017-18



- Startup Name:** C & G Agroventures Pvt Ltd
Innovation: It is involved in Agricultural and animal husbandry service activities, except veterinary activities.
YOI: 2017-18
- Startup Name:** Orduino Labs Private Limited
Innovation: Smart Sensor for fuel telematics Fuel level sensor is designed for precision fuel level measurement in all kinds of vehicle tanks, also in tanks of fixed installations.
YOI: 2017-18
- Startup Name:** Slick Account Pvt Ltd
Innovation: Simple web based accounting software for business using saas.
YOI: 2017-18
- Startup Name:** Malus Technology Pvt. Ltd .
Innovation: software products and software development services at unmatched cost-effectiveness and service quality, thereby making technology beneficial to the business.
YOI: 2017-18
- Startup Name:** Iserveu Technology Pvt Ltd
Innovation: One stop solution for payment acquiring, issuing, accounts, lending, withdrawal, deposit, remittance, insurance, customer KYC providing embedded banking services.
YOI: 2017-18
- Startup Name:** Udiyate Technologies
Innovation: IOR based beverage bot
YOI: 2017-18
- Startup Name:** Krea Foods & Beverages Pvt Ltd
Innovation: Creating Food Sustainability through Biotechnological Innovations.
YOI: 2017-18

TAILOR MADE CAPACITY BUILDING PROGRAMS

To handle innovators at every stage of technology development

BUSINESS PLAN WORKSHOP

A two days Business Plan Workshop has been conducted for the start-ups to sensitize them about writing an exceptional business plan to secure investment and external funding.

Program Details:

Year	No. of Beneficiaries
2020-21	20
2021-22	37

IP WORKSHOP

The workshop aimed to sensitize innovators, startups and entrepreneurs to learn how to identify and protect intellectual property of innovation and technology.

Program Details:

Year	No. of Beneficiaries
2020-21	19
2021-22	34

DIGITAL HEALTH FOUNDATION COURSE

The course aimed to enlighten the innovators about the Digital technologies and big data which offer tremendous opportunities to improve health care system and innovative frameworks for better patient wellness, outcome, and cost management. The industry experts have enlightened the practical overview of digitalization of technology during the sessions.

Program Details:

Year	No. of Beneficiaries
2021-22	34

EMBEDDED ARM TECHNOLOGY TRAINING PROGRAM

A one month program aimed training the innovators and start-ups technically in Electronic and AI enlightening the essential topics of embedded C language, Arm structure, GPIO subsystem and SPI & I2C subsystem. The main aim of this Training program was to illustrate the advanced level of Electronics Hardware and its programming beyond the basic Arduino boards. The practical & Hands On sessions were carried out virtually using designated Software to make the participants handy to the functionalities of Embedded Arm Technology.

Program Details:

Year	No. of Beneficiaries
2020-21	11
2021-22	22

DIGITAL MARKETING FOR START-UPS

The 5 days program was conducted in collaboration with Maison Tech Innovation Pvt. Ltd. The main aim of this program was to make the participants aware about the Digital means of marketing of their products and how to generate revenue online through virtual mode.

Program Details:

Year	No. of Beneficiaries
2021-22	17

BI MONTHLY TECHNICAL MENTORING SESSION

The one-one session with domain expert aided the start-ups in solving the critical technical and business problems in the undergoing project.

Program Details:

Year	No. of Beneficiaries
2021-22	21

INNOVATORS MONTHLY PROGRESS REVIEW

The one to one monthly session with the project ongoing entrepreneurs aimed to track the milestones and progress of the innovators and start-ups in their project, which has helped them to perform and stick to the respective milestones of the particular month.

Program Details:

Year	No. of Beneficiaries
2020-21	17
2021-22	21

RESEARCH TO REALITY WORKSHOP SERIES

The two days workshop aimed to enlighten funding opportunities for academia, innovation & IP management and technology readiness assessment licensing and commercialization technology transfer promoting innovation and entrepreneurship.

Program Details:

Year	No. of Beneficiaries
2021-22	78

BEYOND BLINK 3.0 EMBEDDED ARM

This program is being conducted with the aim of illuminating the participants for the advanced level of Electronics Hardware and its programming The practical & hands on sessions were carried out virtually using designated software to make the participants handy to the functionalities of Electronics, MATLAB,Programings, ARM technology etc which has helped them in gaining additional skills & knowledge in the field of Advance Electronics & Microcontrollers.

Program Details:

Year	No. of Beneficiaries
2021-22	8

PROTOTYPING & 3D PRINTING & DESIGN PROTOTYPING

The workshop aimed in enlightening the innovators and startups in the technicalities of design Prototyping and 3D printing with the laboratory and industry experts.

Program Details:

Year	No. of Beneficiaries
2020-21	7
2021-22	16

HEALTH-O-THON

The program aimed to identify, fund, and fast-track promising early stage health tech startups/ innovators/entrepreneurs working on innovative and scalable ideas on mobile applications, wearable technologies, precision diagnostics, health information systems, telehealth, telemedicine, etc.

Program Details:

Year	No. of Beneficiaries
2021-22	22

NEXT LEAP ACCELERATOR PROGRAM

Next Leap is a 7 week accelerator program, to provide Odisha-based start-ups the momentum to establish a strong position in the market by idea validation, identifying the business opportunities, making potential customers, building a scalable business model, and building a Go-To-Market strategy. The Next Leap Program helps ambitious creative business owners integrate sound entrepreneurship into their everyday practices with being more capable and confident, to realize and sustain creative fulfilment, financial resilience, and social impact.

Program Details:

Year	No. of Beneficiaries
2021-22	15

45 DAYS INDUSTRIAL INTERNSHIP PROGRAM ON ELECTRIC VEHICLE DEVELOPMENT

The program is being conducted in collaboration with Electromotion E-Vidyut Vehicles Pvt. Ltd. The main aim of this Internship program was to generate awareness among the participants about the Development of Electric Vehicles which is considered as the Future of India. The practical & Hands On sessions were carried out virtually using designated Software to make the participants aware about the different Simulation Tools & Designing Tool that are used for the development of EVs, which has helped the students in gaining additional Skills & Knowledge in the field of Electric Vehicle Engineering.

Program Details:

	No. of Beneficiaries
2021-22	13

PCB DESIGN AND FABRICATION WORKSHOP

The program is being conducted for the start-ups to enlighten about the core concepts and technicalities of PCB fabrications. The objective of program is to make the participants get ready for the industrial applications of PCB Design & Fabrication technology. The practical & Hands On sessions are carried out virtually using designated Software to make the participants handy to the industrial needs and in gaining additional Skills & Knowledge in the field of Electronics. All the participants were the students from different domains of Engineering.

Program Details:

	No. of Beneficiaries
2019-20	18
2020-21	29
2021-22	58

COMPANY FORMATION & COMPLIANCES WORKSHOP

The 2 days workshop was conducted to enlighten the innovators in forming and registering the company with the procedures and up skill about the rules and compliances of Company Act.

Program Details:

Year	No. of Beneficiaries
2021-22	56

FAB LAB KICKSTARTER WORKSHOP SERIES

The two days workshop aimed to enlighten the start-ups in the cutting edge technology with the 3D printing and CAD designing with the hands on experience.

Program Details:

Year	No. of Beneficiaries
2021-22	13

CLINICAL TRIALS AND REGULATORY COMPLIANCES VALIDATION WORKSHOP

The workshop aimed for the prototype developed startups to understand the compliances of clinical trials and regulatory & provided assistance during the process by clinical experts.

Program Details:

Year	No. of Beneficiaries
2021-22	34

DEPARTMENT OF SCIENCE & TECHNOLOGY – NATIONAL IMPLEMENTATION AND MONITORING AGENCY (DST-NIMAT)

The programs are conducted as a part of Dept. of Science & Technology – National Implementation and Monitoring Agency (DST-NIMAT) Project, which is being implemented by Entrepreneurship Development Institute of India (EDII) under the patronage of the National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology, Govt. of India, New Delhi.

MODULES COVERED

- Entrepreneurship & Schemes Of Assistance
- Project Selection & It's Pre Feasibility
- Consolidation Of Business Idea
- Motivational Input
- Business Plan Preparation
- Management Inputs

ENTREPRENEURSHIP AWARENESS CAMP (EAC)

Aims to help young and innovative minds to develop as leaders in their respective fields. Students are exposed to different aspects of Entrepreneurship, including opportunity guidance, services offered by support agencies etc.

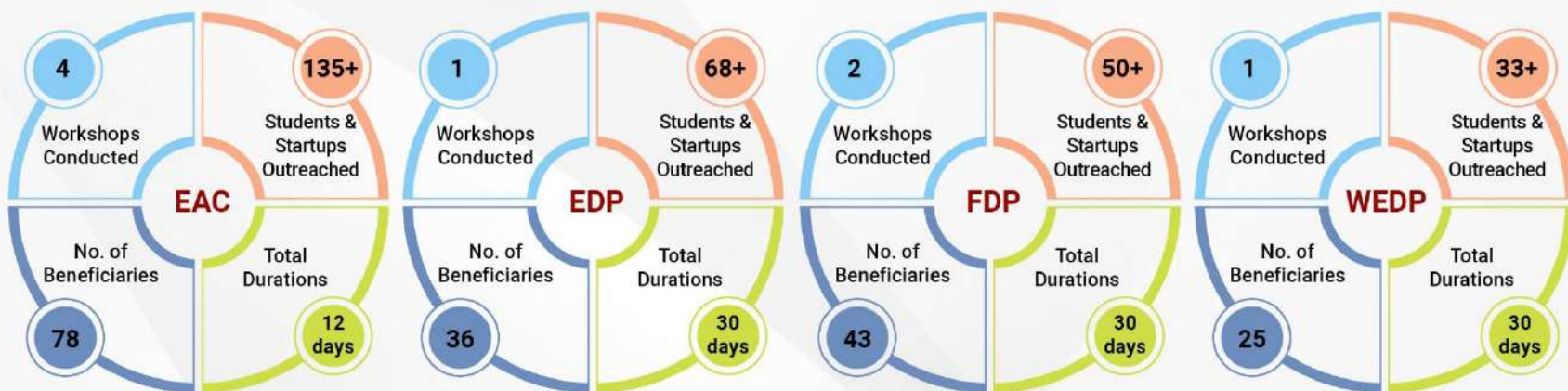
FACULTY DEVELOPMENT PROGRAMME (FDP)

Aims at equipping teachers/trainers with skills and knowledge that are essential for inculcating entrepreneurial values in students, guiding and monitoring their progress towards entrepreneurial career.

WOMEN ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (WEDP) & ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (EDP)

Aims at training the S&T graduates and diploma holders in the essentials of conceiving, planning, initiating and launching an economic activity or an enterprise successfully.

Impact Created



ENTREPRENEURSHIP AWARENESS CAMP



ENTREPRENEURSHIP DEVELOPMENT PROGRAM



FACULTY DEVELOPMENT PROGRAM



WOMEN ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (WEDP)



TRAILBLAZERS

Convergence of deep technologies is giving rise to new use-cases and solutions

Tycheejuno Speciality Tyres Pvt Ltd



Founder: SAMEER PANDA

Innovation: A multi-chambered tubeless tyre with a mix of sealant, coolant and balancer inside the chamber, taking care of puncture, decreasing the possibilities of burst caused by overheating, dynamically balancing the tyre thereby avoiding the necessity of use of Lead (RoHS) material for wheel balancing, decreasing leakage of air and increasing air retention resulting in marginal increase in fuel efficiency.

Sector: Manufacturing

Achievements:

- ▶ ET Power of Ideas Final, Ahmedabad
- ▶ Awarded Gold medal at the International Innovation Fair, 2017, Visakhapatnam
- ▶ 90 lakhs-Angel funding;
- ▶ 40 lakhs-CCD Investment by CIIE IIMAhemdabad;
- ▶ 1Cr-CCPS Investment by HPCL;
- ▶ 3Cr-Equity Investment by GAIL

Minionlabs India Pvt Ltd



Founder: Gokul Shrinivas

Innovation: Minion uses state-of-the-art Machine Learning and AI-Based EDGE Computing approach to detect energy signatures of individual electrical assets and study patterns of their energy consumption used inside the facility at single point of connect and also to generate real-time notifications of various events and reports on predictive analytics, enabling the users to save up to 30% of their energy consumption along with CAPEX & OPEX savings over traditional & smart metering solutions.

Sector: Cleantech

Achievements:

- ▶ Currently Raising INR 11.25 Crores in Seed Round at INR 63.75 Crores Pre-Money Valuation.
- ▶ March 2020 – INR 96 Lakhs INR Pre-Seed raised at INR 7.5 Crores Pre-Money Valuation from Indian Angel Network.
- ▶ Received MeITY SASACT Grant worth INR 7 lakhs
- ▶ Raised investment of INR 40 lakhs from TIDE2.0 Investment Scheme
- ▶ Received DST NIDHI4COVID Fund worth INR 30 lakhs
- ▶ Winner of Top Industry 4.0 - Internet of Things (IoT) award at the National Startup Awards 2020 ceremony

Praesus Technologies Pvt Ltd



Founders: Shamik Guha

Innovation: Altor-A smart helmet to collect real-time data and help to reduce operational and personal risk while providing and encouraging enhanced road safety.

Sector: IOT, Electronics

Achievements:

- ▶ Venture Catalysts -INR 95 lakhs
- ▶ Featured in Shark Tank India with a massive positive response with a funding of 50 lakhs.
- ▶ Coverage in INC42 as one of the most promising start-ups.

Felis leo widgets Pvt Ltd



Founder: Nishita Baliarsingh, Nikita Baliarsingh,

Innovation: Proteins in the living organisms possess properties of electron transfer and energy storage just like the batteries made from li – ions. The proteins are good conductors of electricity and facilitate the flow of electrons. In the initial research work, it was found that crude protein is found in crop residue. Considering that this part of the agriculture waste, we use the residue as a raw material to extract protein. The extracted proteins are further broken into smaller particles known as peptides, which are doped with Carbon Nanotubes to build a composite / cross linked material to achieve the desired electrodes for the flow of electrons in the battery.

Sector: Cleantech

Achievements:

- ▶ Received MeITY TIDE 2.0 EIR worth INR 4 Lakhs
- ▶ Received DST NIDHI PRAYAS worth INR 7 Lakhs
- ▶ Received HDFC Smart up grant worth INR11 Lakhs
- ▶ Listed under Forbes 30 Under 30 both Asia & India for the year 2021.
- ▶ Appreciated and highlighted in MG Changemakers, Vogue India, Entrepreneurs – women to watch etc.
- ▶ PMI Future 50 – 2021
- ▶ Women of Substance – 2022
- ▶ Parichay Foundation's Aarya Award – 2022
- ▶ Best Sustainable Engineering – 2019
- ▶ CII Yi Innovex – Innovative startup of the year – 2019
- ▶ Raised upto 3Cr investment fund from Pomtaq Ventures
- ▶ Raised 2 Cr from JITO Angels network
- ▶ Recognised as top 10 Agri-startup in Agri-Udaan

Terracraft Agritech Pvt Ltd

Founder: Vaibhav Thacker



Innovation: We are developing krishiBOT, a battery-operated, Intelligent workforce for efficient farming. It features precision mechanisms for 1. Seed Sowing, 2. Fertilizer application, 3. De-weeding. Krishi BOT will reduce the dependency on labour and make farms efficient by optimizing resources and improving crop productivity.

Sector: Agriculture

Achievements:

- ▶ INR 25 Lakhs as equity investment
- ▶ INR 21.25 Lakhs from HDFC grant
- ▶ INR 6 lakhs as grant (NIDHI Prayas)
- ▶ INR 25 Lakhs as loan (converted to equity at later stage)

Inofinity Research & Development Pvt Ltd

Founder: Ashok Kumar Badamali



Innovation: An ergonomically designed hand held gadget with audio visual feedback in regional Indian language facilitating common men in providing high quality chest compression to victims of cardiac arrest before arrival of emergency medical team, to save a life. The audio effects of the device includes " Good Job, Low rate & No recoil" considering the rate of compression 100/ min, depth 5 cm and complete recoil according to American Heart Association Basic Life Support Guidelines-(BLS- 2020). The metronome of 100/min rate facilitates in giving compressions at desire rate.

Sector: Healthcare

Achievements:

- ▶ Received DST NIDHI PRAYAS worth INR 7 Lakhs
- ▶ Received Start Up Odisha Product Development Grant worth INR 16 Lakhs
- ▶ Received BIRAC BIG worth INR 50 Lakhs

Swayogya Rehab Solutions Pvt Ltd

Founder: Pooja Jha & Vikas Kumar



Innovation: A portable Biophysically stimulated Therapeutic device for persons with knee osteoarthritis

Sector: Healthcare

Achievements:

- ▶ Startup Odisha Product development fund worth INR 15 Lakhs
- ▶ Received INR 49.8 lakhs grant-in-aid from BIRAC BIG scheme.
- ▶ NIDHI Prayas Grant worth INR 6 Lakhs
- ▶ Supported under AMTZ Medivalley Incubation Council

Aerostrovilos Energy Pvt Ltd

Founders: Pradeep Thangappan, Rohit Grover



Innovation: Aerostrovilos Energy has one of the most cutting edge combustion technology when it comes to Micro Gas Turbine Technology, Our turbines are compact, highly efficient, low emissions and low cost of ownership.

Sector: Automobile

Achievements:

- ▶ Pre-seed: Mumbai Angels, Keiretsu – 40 Lac's.
- ▶ Seed: Tubes Investment Ltd. – 346 Lac's.

Macphy Solutions Pvt Ltd



Founder: Pradeep Rout

Innovation: Hybrid cooling devices that make cold chain viable and affordable for various range of operations

Sector: Cleantech

Achievements:

- ▶ Received the best Innovation award in Rural Innovation startup Conclave (RISC) 2018 organised by NIRD, Hyderabad GOI and Panchayati Raj Dept.
- ▶ Awarded BIG grant of Rs 49.6 Lakhs
- ▶ Raised 5 Lakhs from IIT Delhi.
- ▶ Raised 2 Lakhs from IIT Bhubaneswar.
- ▶ Raised 2 Lakhs from NIRD-PR
- ▶ Top-10 innovations in medtech, Mediko-2019, Messe India & IMA
- ▶ Inspirational rural Innovations, Rural dialogues, CRT, IIT Guwahati
- ▶ Received Social Alpha Tectonic Challenge NIRD-PR Startup for Sustainability at RISC Animal Husbandry Grand Challenge Startup India

Huwel Lifesciences Pvt Ltd

Founder: Rachana Tripathi & Shesheer Kumar Munpally



Sector: Healthcare

Innovation: Developed COVID-19 Detection Kit (Real Time Quantitative PCR Kit) and scale-up of production of MTM and Extraction kits.

Achievements:

- ▶ Produced about 3.8 Cr COVID RT PCR tests, Catered 27 states across India.
- ▶ Huwel produces >97% components in house.

H2M Food & Beverages Pvt Ltd



Founder: Santosh Kumar Khemundu

Sector: Food tech

Innovation: Food processing uses existing technology to devise a unique recipe for existing food products with healthier & sustainable ingredients

Achievements:

- ▶ Recipients of NIDHI Entrepreneur in Residence fellowship program under DST, India providing INR 3 lacs for a year.
- ▶ Top finalists of Startup India Odisha Yatra 2018 and received a 'Seed Capital Award' of INR 50,000.
- ▶ Bagged position amongst the top 5 finalists of Green Business Challenge 2017, India held at New Delhi on 6 th March 2018
- ▶ Winner of Sociovation 3.0 B-Plan competition backed by INVENT program and received cash reward of INR 50,000.
- ▶ Secured position amongst top 5 winners in Agri-Elevate+ accelerator program and funded INR 20 lacs by KIIT TBI (Villgro DFID-UK).
- ▶ Secured a grant of INR 15 Lacs from RKVY-RAFTAAR program
- ▶ Selected and sponsored by Startup Odisha for INDUS FOOD EXPO 2020 held at Greater Noida.
- ▶ Recipients of Startup Odisha Product Development & Marketing Assistance grant of INR 16 Lacs.
- ▶ Selected for MSME SFURTI scheme for establishing a Millet Processing Unit at Koraput and granted an amount of INR 5 Crore for the same.

ETA Purification Pvt Ltd



Founder: Dr. Dinesh Venkatachalam

Sector: Healthcare

Innovation: COSMO (Complete Sterilization by Micro-plasma Oxidation) utilizes the oxidative power of free-radicals, which are generated using our proprietary and patented non-thermal micro-plasma technology.

Achievements:

- ▶ Featured in various news channels and newspapers like The New Indian Express.
- ▶ Featured in Top 10 Technologies to fight COVID in Hindustan Times.
- ▶ Collaboration with CMRL (Chennai Metro Rail Corporation)

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



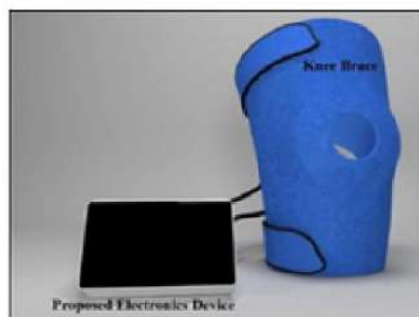
Inochi Care Pvt Ltd

A frugal multi therapeutic wound care solution for resource constraint healthcare settings.
Supported under DST-NIDHI PRAYAS



Assistaidd Healthcare Pvt Ltd

Portable all-in-one Dynamometer
Supported under DST-NIDHI PRAYAS



Swayogya Rehab Solutions Pvt Ltd

A portable Biophysically stimulated Therapeutic device for persons with knee osteoarthritis
Supported under DST-NIDHI PRAYAS



Inofinity R&D Pvt Ltd

SANJIVANI: Compression Only Life Support Assist Gadget for Resuscitation of Cardiac Arrest victim by Common men
Supported under DST-NIDHI PRAYAS



Ripple Healthcare Pvt Ltd

A more acceptable and effective way to prevent hip fractures in the elderly due to falls.
Supported under DST-NIDHI PRAYAS



Kalinga Renewable Energy Manufacturers Pvt Ltd (Karma)

Manufacturing cost-effective machinery using solar panels with the principle of Sustainable Development.
Supported under NSTEDB



Innocule Materials & Additives Pvt Ltd

Bringing efficiency to Mineral Processing Chemical solutions for mineral operations
Supported under NSTEDB



Oska Technology Pvt Ltd

Medimemo: A smart IoT solution which not only reminds the patients for the medication
Supported under DST-NIDHI PRAYAS



MinionLabs India Pvt Ltd

Minion Energy Management Solution
Supported under DST-NIDHI PRAYAS

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



Miraqules Medsolutions Pvt Ltd

StopBleed: A commercially viable and easily applicable fast acting haemostatic agent
Supported under DST-NIDHI PRAYAS



Droaerody Pvt Ltd

Krishi PS-1925@ - Drone for Climate-Smart Agriculture
Supported under DST-NIDHI EIR



Terracraft Agritech Pvt Ltd

KrishiBOT- A smart Agriculture robot
Supported under DST-NIDHI PRAYAS & NIDHI Accelerator



Upsoil Technologies (OPC) Pvt Ltd

Soilscope: Point-of-Use rapid nutrients testing and soil health analyser
Supported under DST-NIDHI EIR



Aptinnov Labs Pvt Ltd

Latinno - latex Carry Knapsack
Supported under DST-NIDHI EIR



Azeedo Agritech Pvt Ltd

AZEEDO: Crop-defender
Supported under DST-NIDHI PRAYAS & NIDHI Accelerator



Felis Leo Widgets Pvt Ltd

Bio-degradable fast charge EV batteries out of agricultural wastes such as crop residue.
Supported under DST-NIDHI PRAYAS



Krakel Healthcare Pvt Ltd

A Non-Invasive POC Device and Respiratory Diseases Diagnostic Platform.
Supported under DST-NIDHI PRAYAS



Neukelp Innovation Technology Pvt Ltd

Neukelp Posture: Intelligent body posture monitoring device
Supported under DST-NIDHI PRAYAS & NIDHI Accelerator

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



Venom Plasma LLP

VENOM - Our Air De-Toxifier for Bio-Oxygen plasma.
Supported under DST-NIDHI EIR



Larkai Innovations Pvt Ltd

ThoraCare: A non-invasive easy to use early stage heart and lung abnormalities screening device
Supported under DST-NIDHI EIR



Bariflo Labs Pvt Ltd

AI-IOT based multipurpose sediment level dispenser for inland shrimp aquaculture
Supported under DST-NIDHI Accelerator



Macphy Solutions Pvt Ltd

Solid state coolingbox/refrigerator system
Supported under DST-NIDHI EIR

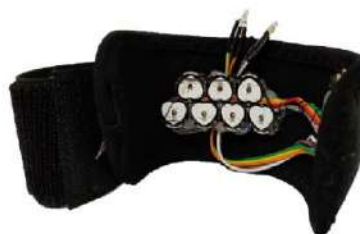
THIS IS CAPTAIN CONTROLLER
TURN ON THE LEFT SLIDER SWITCH



WHEN IT WILL BE ON YOU WILL SEE RED LIGHT

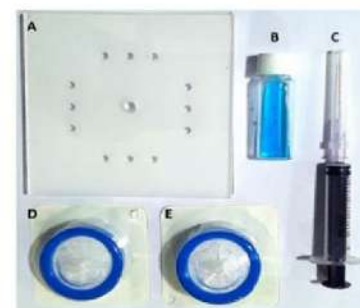
Protionix Technology Pvt Ltd

Gollem Kit with motors, different actuators, some sensors with Captain controller that has some dedicated and some programmable switches.
Supported under DST-NIDHI EIR



Frugal Spheres Pvt Ltd

Venepuncture Guide
Supported under DST-NIDHI EIR



Sanlop Healthcare Solution Pvt Ltd

UTI AMR Kit
Supported under DST-NIDHI EIR & NIDHI PRAYAS



Tan90 Thermal Solutions Pvt Ltd

Portable Cold Storages with Proprietary Phase Change Material for Cold Supply Chain
Supported under DST-NIDHI Accelerator



Aerostrovilos Energy Pvt Ltd

Micro Gas Turbine – Compact power generation.
Supported under DST-NIDHI PRAYAS

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



Ezerx Health Tech Pvt Ltd

Non-invasive non-contact kit for hemoglobin, bilirubin, oxygen saturation measurement
Supported under DST-NIDHI PRAYAS & NIDHI Accelerator



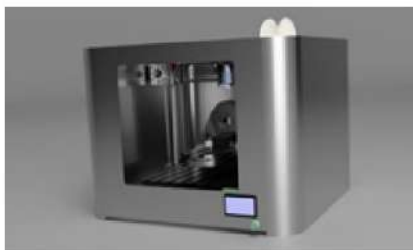
Ethought Technologies (OPC) Pvt Ltd

Toilet Support Assisting Assembly For Elderly Or Disabled Persons
Supported under DST-NIDHI PRAYAS



Orduino Labs Pvt Ltd

Smart Sensor for fuel telematics Fuel level
Supported under DST-NIDHI PRAYAS & NSTEDB



Automaton Robotics and Automation Pvt Ltd

5-Axis 3D printing and CNC milling Hybrid Workstation
Supported under DST-NIDHI PRAYAS & NIDHI Accelerator



Forestica Booty Pvt Ltd

EASYdatun - combination of a brush with a stick that wouldn't carry bristles, fully treated herbal stick
Supported under DST-NIDHI PRAYAS



Comofi Medtech Pvt Ltd

An augmented reality based robotic device to access kidney for PCNL surgery
Supported under NSTEDB



BNG Spray Solutions Pvt Ltd

Highly Fuel Efficient Industrial Furnace Burner
Supported under DST-NIDHI PRAYAS & NIDHI Accelerator



Metnmat Innovations Pvt Ltd

A High performance wear solutions for crushing & grinding applications.
Supported under DST-NIDHI PRAYAS

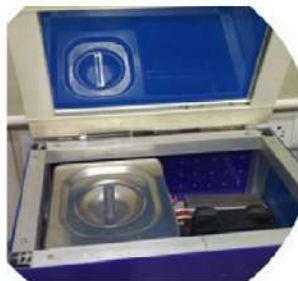


Praesus Technologies Pvt Ltd

Altor Smart Helmet
Supported under DST-NIDHI EIR & NIDHI PRAYAS

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



Orbonix Labs Pvt Ltd

SampleTrack

Supported under DST-NIDHI PRAYAS



Yos Home Appliance Pvt Ltd

Starch & arsenic reducing rice cooker

Supported under DST-NIDHI PRAYAS & NIDHI Accelerator



Huwel Lifesciences Pvt Ltd

COVID-19 Detection Kit (Real Time Quantitative PCR Kit)

Supported under DST-CAWACH



Whiteshark Energy Pvt Ltd

Smart Solar Inverters

Supported under DST-NIDHI PRAYAS



Sarala Powertech Consulting Engineers LLP

Design, Prototyping of a Low Cost Reliable Hybrid Energy System.

Supported under DST-NIDHI PRAYAS



RMmedi Innovations Pvt Ltd

Safety Goggles to Combat Covid-19

Supported under DST-CAWACH



Udiyate Technologies Pvt Ltd

IOR Based Beverage Bot

Supported under DST-NIDHI PRAYAS & NIDHI Accelerator & NSTEDB



Prantae Solutions Pvt Ltd

SARS-Cov2- IgG+IgM ELISA Kit

Supported under DST-CAWACH



Comofi Medtech Pvt Ltd

NT-Mask

Supported under DST-CAWACH

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



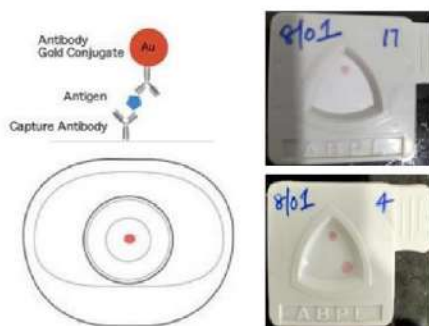
ETA Purification Pvt Ltd

COSMO (Complete Sterilization by Micro-plasma Oxidation)
Supported under DST-CAWACH



Chimera Translational Research Fraternity

Smart Solar Inverters
Supported under DST-CAWACH



Ameliorate Biotech Pvt Ltd

Rapid diagnostic device for detection of COVID-19 Antigen
Supported under DST-NIDHI4COVID & NIDHI Accelerator



Qawach Bio Pvt Ltd

InstaCOVID Ag: Easy home antigen test for COVID-19 detection
Supported under DST-NIDHI4COVID



Biodesign Innovation Labs Pvt Ltd

RespirAID: Automated Respiratory Assisting Device
Supported under DST-NIDHI4COVID



Medcuore Medical Solutions Pvt Ltd

ARIA - Smart Oxygen Concentrator
Supported under DST-NIDHI4COVID



Dhanvantri Biomedical Pvt Ltd

Sahayatha- A convertible wheelchair cum bed for the mobility-impaired.
Supported under DST-NIDHI4COVID



MinionLabs India Pvt Ltd

MinionLabs UV Saaph
Supported under DST-NIDHI4COVID



Epvi New Technological Epoch Pvt Ltd

Manufacturing the World's first AutoSwitcher Lighting Products. Smi Fi Energy Meter
Supported under DST-NIDHI Accelerator

PRODUCT SHOWCASE

In the path of "MAKE IN INDIA"



HFIL Technologies Pvt Ltd

An affordable smart energy meter solution

Supported under DST-NIDHI PRAYAS



Symbiorph Medical Innovation Pvt Ltd

iLive: 10L/min High Pressure Oxygen Concentrator

Supported under DST-NIDHI PRAYAS & NIDHI4COVID



Shyama Projection Engineering Research Pvt Ltd

3-Axis Stabilized Bipod Mount for Mortar Weapon System

Supported under DST-NIDHI PRAYAS



Darubrahma Automation Robotics Pvt Ltd

Platyrrhynchous Vehicle

Supported under DST-NIDHI EIR & PRAYAS



Skyrider Electric Pvt Ltd

Personal Transport Vehicle (PTV)

Supported under DST-NIDHI EIR



H2M Food & Beverages Pvt Ltd

Cookies and Beverages

Supported under DST-NIDHI EIR & NIDHI Accelerator

INNOVATOR'S JOURNEY @KIIT-TBI, SUPPORTED BY DST, GoI

NISHITA BALIARSINGH

FELIS LEO WIDGETS PVT LTD

Innovation: Bio-degradable fast charge Electric Vehicle batteries from Organic Agricultural wastes like Crop Residue.

Nishita had been fascinated by sustainable lifestyle approaches since she realised the necessity of environmental protection. Nishita and her twin sister, who is also a co-founder, outlined a variety of issues in the EV sector, notably relating to batteries, during a random classroom conversation. Nishita, a sustainability enthusiast, instantly decided to address the issue and give an environmentally beneficial remedy. Nishita and her colleagues discovered protein batteries after a lot of deep research, and they formed Nexus Power to make bio-degradable batteries out of crop residue! Nexus is using crop residue to create lithium-free, biodegradable electric vehicle batteries. Nexus, which is based on the concepts of industrial ecology and bio-mimicry, is not only speeding up the adoption of electric vehicles (EVs) through fast charging, low-cost, and energy-efficient batteries, but also facilitating tremendous expansion in the agricultural business.



Nexus batteries are the world's first peptide crystal batteries, designed and developed by the company's founders. With the support of MeitY TIDE 2.0 EIR and DST NIDHI PRAYAS Grant, at KIIT TBI, has been important in doing in-depth study and developing a thorough grasp of the technology and product. To mention a few publications, the girls have appeared in Forbes 30 Under 30, Entrepreneur magazine's "Shepreneur – Women to Watch," Vogue India's "Women atWork" special edition, MG Motors & The Better India's "Change Makers – Season 3," and PMI's "Global Future 50." Several big global media outlets have published stories about their voyage in both print and digital formats

KAUSHAL KOTHARI

RIPPLE HEALTHCARE PVT LTD

A more acceptable and effective way to prevent hip fractures in the elderly due to falls.

Kaushal, Founder and CEO of Ripple Healthcare comes from a humble values household in a city of bustling crowds, a monetary metropolis, Mumbai. Though, coming from a normal middle-class business background, his parents constantly stimulated him to instill the ideas that the modern international society demands. He says, "I believe this led to my entrepreneurial inclination and improvement of my skills, even at the inchoate stage of my childhood" he started his first challenge when he was seven years old. For him, innovation without a greater social or environmental cause is much less exciting. Kaushal believes, "Being innovative is the result of his inquisitive character and the answer to understanding the workings of the universe at the physical level rather than astronomically". His company's mission and vision are parallel to addressing the unique unmet health care needs of the elderly people and assistive space.



He was selected as one of the Innovators in the flagship program of the Department of Biotechnology, School of International Bio-design in collaboration with AIIMS, New Delhi, IIT Delhi, and other foreign universities across the globe. With his team, he performed clinical immersion in the Geriatric medicine department and developed a deep passion for innovating medical products for the geriatric population. Hip fractures due to falls are a major public health concern for the elderly. Globally, falls are responsible for over 38 million DALYs (disability-adjusted life years) lost each year. With the support of DST, NIDHI PRAYAS, AIIMS, IIT Delhi, and KIIT TBI, he is now developing a smart IoT-enabled device to prevent and provide dignified life to hip fracture elderly patients.

ANISHA BANKA

METNMAT RESEARCH & INNOVATIONS PVT LTD

One of its kind research and development organization providing cost efficient, customized solutions to Metallurgy & Materials Engineering problems.

During the college days at IIT Kharagpur, Anisha Banka, Founder Director of METNMAT Research & Innovations PVT LTD realized a gap between academic research and industrial needs. Most of the research work lacked commercial feasibility aspect and were primarily focused on paper publication. This led to the core foundation of METNMAT. Anisha along with some of her interested classmates used to visit nearby industries in Howrah and Jamshedpur region to understand the problem these industries are currently facing. Most of these industries cannot afford Research and Development division of their own and can't hire very skilled workforce. Thus, operating inefficiently and causing monetary losses leading to untimely shutdown. Based on their classroom knowledge they started to come up with solution for the companies, which were impactful. In spite of getting the dream job offers Anisha chose to go ahead with her entrepreneurial journey.

In October 2018, after graduating from IIT Kharagpur, Anisha, Mukesh Kumar along with colleague Arpit Dwivedi co-founded METNMAT Research and Innovations, a one-stop platform for developing products and solutions for Metallurgy/Materials based industries. METNMAT aims to develop technologies and products in India under the influence of "Make in India" scheme. The company is working with some of the leading industries like TATA, JINDAL, VEDANTA, HINDALCO. Currently they are focusing on development of ceramic embedded metal matrix composite for high wear resistance application used in mining, cement, recycling and other related industries. Through the Nidhi Prayas grant support they would be able to cast large scale castings and provide it to the relevant industries for performance check. Their story has been covered by one of the leading media platform Your story and the start-up has been recognized by the government of India.



SIDDHARTH GOEL & DR PAURVI KEDIA

ASSISTAID HEALTHCARE PVT LTD

All-in-one portable device to measure strength of major muscle groups of the body as well as handgrip and finger strength.

The Founders of Assistaid Healthcare Pvt. Ltd. met in Manipal in 2019, when Siddharth Goel suffered through a hand injury after which when his muscle strength was recorded, he observed the device being used for testing handgrip strength was hydraulic in nature and upon questioning, was informed by Dr. Paurvi Kedia that digital versions are available but are not economically feasible. After primary market research, they both observed that there is not a single device in the market which can measure muscle strength of major muscle groups of the body, handgrip strength and finger strength in a single device, rather one needs to invest 2-3 devices which need to be serviced regularly but haven't been done so due to lack of Indian companies in this space which either discourages a lot of people from buying the devices or wasting 1-2 months in getting the device serviced or in the worst case scenario, not servicing the devices for years leading to incorrect judgements.

With standards of sports in India increasing continuously and medical sciences progressing they need objective method to quantify muscle strength instead of make-away methods to measure muscle strength. This will lead to better training for sportsperson, so they have better understanding of their own bodies, status of their recovery and strength and better and faster rehabilitation of injured/unwell patients. With the support from the DST NIDHI PRAYAS and with the support and mentoring of KIIT-TBI, we can surely achieve our goal of introduce and scale our device in the market through their extensive network.



DR KANIKA SINGH DHULL

K FIRST BIOTECH PVT LTD

Impregnated disposable infant & baby tooth cleaning device.

The clinical side of Kanika's experience as a pediatric dentist for almost ten years had her deeply worried and disturbed. She came across nearly calamitous proportions of issues in children that were easily preventable. Upon her research on the subject, DrKanika concluded that the foundations of these troubles lay in the poor dental hygiene that starts at the infant stage. Rooted in the lack of availability of any viable options for a dental cleaning for an infant, Kanika realized her larger task was cut out. With a determined mind and a missionary zeal, she decided to embark on the mission of developing a device for dental care and cleaning in infants & children. During her clinical exposure, DrKanika discovered that the lack of infant dental care options was the single most significant leading cause of poor dental health. Not the one to give up easily, she embarked upon her journey to find/invent a viable solution to prevent dental issues among infants and children.



Kanika's solution lies in manufacturing disposable Baby tooth cleaning device that is affordable and can help in effective cleaning of baby teeth during infancy to decrease the incidence of caries in childhood. This project is targeted at infants and babies by providing their mothers with an affordable and effective tool for massaging their gum and cleaning their teeth. Early childhood caries ECC is a serious public health problem in developing and industrialized countries. The consequences are alarming and can affect the immediate and long-term quality of life of the child's family, and can have significant social and economic implications beyond the immediate family. DrKanika's proposed tooth cleaning device is easy to use and does not require any special training for the moms of toddlers for its usage. The effortless use by toddlers would prevent early tooth decay during infancy. With the support of DST-NIDHI PRAYAS grant, the company will develop a disposable Baby tooth cleaning device which is affordable and can help in effective cleaning of baby teeth during infancy so as to decrease the incidence of caries in childhood.

DR NIVEDITA SAHOO

RN BIOMEDICAL PVT LTD

Cranio-mandibular Brace - A novel device for Myo-facial Pain Dysfunction Syndrome (MPDS).

Prof. Dr. NiveditaSahoo is an Orthodontist & DentofacialOrthopedician having finished her masters in Orthodontics & Dento facial Orthopedics from Sri Ramachandra Medical University, Chennai, Tamilnadu. She has more than twelve years of clinical experience working with dental patients at KIDS (Kalinga Institute of Dental Sciences) Hospital, Bhubaneswar, Odisha. After years of clinical work she observed a first-rate hassle confronted through patients having facial ache. The disease MPDS (Myofascial Pain Dysfunction Syndrome), has a prevalence of 80% in the general population. For the treatment of MPDS the patients have to go to the dental hospital most of the instances for his or her treatment and get treated with the equipments like TENS & Ultrasound therapy, which are massive and bulky, which turn into an actual painstaking process for the patients so as to get relieve from ache which leads to several hospital visits. Dr. Nivedita being an orthodontist has tremendous expertise on growth modulation of the jaws where appliances like headgears are used. With the background of growth modification she thought of a novel idea of developing a portable device for the treatment of MPDS.



From here, her entrepreneurial journey started where she has applied for the 8th call of KIIT NidhiPrayas. She received the approval for her project and then she founded her start up, RN Biomedical Pvt Ltd. She is currently working with her team under the expert guidance of KIIT TBI to develop her prototype of "Cranio-mandibular brace" which she wants to be used by her patients after the clinical trials. This modern innovative wearable device for the patients suffering from MPDS, is a primary step towards her endeavor with the support of KIIT TBI. For her it is a new journey, and no journey is successful without the Almighty's blessings and a good team support. She is looking forward to launch her "Cranio-mandibular brace" in the market soon to be used by her patients at ease with the support of DST-NIDHI PRAYAS and KIIT TBI.

RAHUL RAJ

KHETI KEY EDAPHONE PVT LTD

IoT based Integrated Crop Management System to ensure Food Security.

Rahul Raj has completed his graduation in Electronics and Communication Engineering and holds Master's in Communication Systems from MNNIT Allahabad. He was also involved in completing many software-based projects during his academic career from which he generated revenue and managed his expenses. He has Cleared GATE with flying colors and joined Rail Vikas Nigam Limited (RVNL) as Assistant Engineer. When everything was going smooth, he felt that he is not able justify his work, he had a craving for doing something unique. In the year 2017, he left this job in RVNL and he along with his colleague founded a start-up in healthcare domain with funding support from MeitY. This was his first pure entrepreneurial experience. Soon after starting this venture, they have started their personal sales channel for the sake of sustenance. This became their first entrepreneurial success where they succeeded in having massive MNCs as their clients, primarily based totally on their place of expertise. Their venture is running successfully today with linkage from corporate projects and R&D projects with academia, funded from DST, Govt.



Rahul desired to create a mark in Agri tech domain due to high rate of infusion of technology in this sector and its direct relevance with the healthcare of people. He co-founded "Kheti Key Edaphon" a startup in September 2021 to satisfy his dream of fixing the issues of small and middle-income farmers with technology adoption and assisting them with access to cutting edge technology. He is completely focused in developing the prototype and pitched his idea to KIIT TBI Bhubaneswar in NIDHI PRAYAS, where he has been selected in DST NIDHI PRAYAS and is completely devoting his efforts in bringing his thoughts and plans into action. From an aspirational heir for his father's venture, to a selected Government employee with a decent job, Rahul has preferred to live and work on his dream of being an entrepreneur. He is very dynamic in his approach and spends a lot of time with his interns and colleagues, to fulfil his quest for solving the problems.

SIDHARTH JAIN

SYMBIORPH MEDICAL INNOVATIONS PVT LTD

Mission iLiveIndia-10L/min High Pressure Oxygen Concentrator.

Siddharth Jain, a medical device regulatory expert turned entrepreneur, Founder Director of Symbiorph Medical Innovations Pvt Ltd, based in Ahmedabad. Siddharth Jain is a technocrat, successfully running the teams converting evidence-based science to business opportunities with an intent to solve serious medical issues. Symbiorph Medical Innovations Pvt. Ltd was formed to solve the rising oxygen demand when the second COVID pandemic hit the India. The main idea came when Siddharth had to gone through a tough phase of life as COVID badly affected his parent's health. Being a person from the medical device industry with 12 years of experience, he was in badly need of an oxygen concentrator during the crisis. Thus, the idea of designing and development of a 10 L/min Oxygen concentrator came into his mind and which eventually helped him to form a new company "Symbiorph Medical Innovations Pvt. Ltd." on 13th May 2021. His experience of medical device regulatory helped the design team in designing the oxygen concentrator complying and meeting with all the regulatory standards which most of the Indian made oxygen concentrators fails to achieve. Eventually Siddharth and his team received support in terms of 7.0 Lac grant funding from NIDHI PRAYAS GRANT scheme supported by DST, govt. of India.



Symbiorph Medical Innovations Pvt. Ltd. is into design, development, and manufacturing of 10l/min medical grade oxygen concentrator. The core team of the company is comprised of Mr. Ashok Jain, a serial entrepreneur and many other established cross-functional industry players boosting the very proposition. Siddharth and his team completed the pre-compliance electrical safety testing on the final prototype. They have also received the Mandatory Registration Number from CDSCO to manufacture and sale the device in India. Siddharth and his team believes that with a strong determination and hard work, they will make India ready to tackle with any unforeseen pandemic battle like COVID19.

SOURAV PADHEE

IUVA FOODS PVT LTD

*Precision fermentation for creating dairy proteins for dairy products
– without cows.*

The idea for low-calorie ice cream with low sugar and high protein was born in the winter of 2018 in the dorm rooms at MIT, Manipal. The fundamental motive behind this was to turn ice cream into a functionally nutritious food item rather than just a luxury dessert. The IUVA FOODS team was finally confident in the formulation they had developed for ice cream that would contain 50% fewer calories, 80% less sugar, and 75% less fat while being rich in protein, prebiotics, and probiotics after some research and deep diving into books about dairy and ice cream science. They have decided to launch their product in the spring of 2019 after conducting market research and incorporating comments from potential customers. But the deadly COVID-19 pandemic forced us to rethink our plans.



We did not let the lockdowns dampen our spirits; instead, the effects of lockdowns on global carbon emissions reduction focused our attention to investigating our own carbon emissions and footprint. We recognised that the dairy business was a major source of greenhouse gases, and we were determined to contribute to the evolution of our food economy in order to reduce GHG emissions. We chose to begin working on recombinant dairy proteins using microbial protein expression systems. Our ultimate goal was to recombinantly produce all main dairy proteins so that we could have animal-free dairy that tasted, felt, and functioned exactly like bovine dairy. By April 2021, our team had earned the NIDHI EIR Fellowship and Startup Odisha's Need-Based Assistance from the KIIT Technology Business Incubator in Bhubaneswar, which assisted us in proposing our work in our entrepreneurial journey. We were chosen as one of the firms in the prestigious AIM PRIME Cohort formed by Venture Center, Pune in June 2021. It won't be long before we have an animal-free dairy alternative that is indistinguishable from the dairy that we all love and are accustomed to.



“STRENGTHENING PIPELINE DEEP TECH STARTUPS”

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