



विज्ञान एवं प्रौद्योगिकी विभाग  
DEPARTMENT OF  
SCIENCE & TECHNOLOGY

सत्यमेव जयते

75  
Azadi Ka  
Amrit Mahotsav

NIDHI  
PRAYAS

75

PROMISING STARTUPS UNDER  
NIDHI-PRAYAS

DST STARTUP UTSAV





## About NIDHI PRAYAS

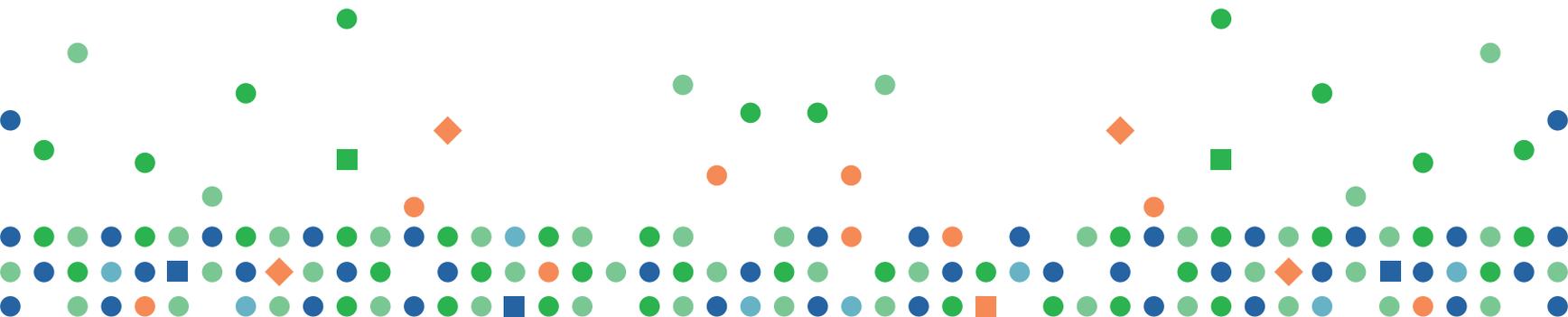
National Initiative for Developing and Harnessing Innovations (NIDHI) is an umbrella program conceived and developed by the DST-NSTEDB, for nurturing ideas and innovations (knowledge-based and technology-driven) into successful startups. Its focus is to build an innovation driven entrepreneurial ecosystem with an objective of socioeconomic development through wealth and job creation.

One of the key component of NIDHI Program is PRAYAS - Promotion and Acceleration of Young and Aspiring innovators and Startups (NIDHI-PRAYAS) which focuses on addressing the idea to prototype funding gap. The emphasis is to foster indigenously developed innovations and product in alignment with the nation's "AtmaNirbharBharat Mission". The program is implemented through PRAYAS centres (incubators) across the country. The PRAYAS Centres support the PRAYASEEs (innovators) with a prototype grant up to Rs. 10 lakhs. The centre has also set up DST PRAYAS Shala (Fab Lab) to facilitate mechanical and digital fabrication besides providing physical infrastructure, technical guidance and business mentorship to the PRAYASEEs.

### Key Objectives -

- To provide a platform for faster experimentation and modify approaches in the idea to market journey.
- To indigenously generate innovative solutions relevant to the local and global problems.
- To attract a large number of youth who demonstrates problem solving zeal and abilities to work on their new technology/knowledge/innovation-based startups

DST has nominated Society for Innovation and Entrepreneurship (SINE), IIT Bombay as a Program Management Unit for implementation of this nation-wide program.



**डॉ० जितेन्द्र सिंह**

राज्य मंत्री (स्वतंत्र प्रभार),  
विज्ञान एवं प्रौद्योगिकी मंत्रालय;  
राज्य मंत्री (स्वतंत्र प्रभार) पृथ्वी विज्ञान मंत्रालय;  
राज्य मंत्री, प्रधान मंत्री कार्यालय;  
राज्य मंत्री कार्मिक, लोक शिकायत एवं पेंशन मंत्रालय;  
राज्य मंत्री परमाणु ऊर्जा विभाग तथा  
राज्य मंत्री अंतरिक्ष विभाग  
भारत सरकार



Message

**Dr. JITENDRA SINGH**

Minister of State (Independent Charge)  
of the Ministry of Science and Technology;  
Minister of State (Independent Charge)  
of the Ministry of Earth Sciences;  
Minister of State in the Prime Minister's Office;  
Minister of State in the Ministry of Personnel,  
Public Grievances and Pensions;  
Minister of State in the Department of Atomic Energy and  
Minister of State in the Department of Space  
Government of India

Startup India Initiative announced by Hon'ble Prime Minister in the year 2015, has set a new vision for the Indian economy to unlock people's entrepreneurial potential in a conducive environment. Today, India is the third largest startup ecosystem globally which has grown from strength to strength in the last few years.

The Department of Science and Technology (DST) has contributed significantly in shaping up the startup ecosystem in the country through creation of institutional structures that fosters technology-based entrepreneurship, such as the Technology Business Incubators (TBIs). The National Initiative for Developing and Harnessing Innovations (NIDHI), an umbrella program, launched by DST in 2016 plugs key gaps in the idea to market value chain. The NIDHI program implemented by Incubators, offer start to scaleup support through array of programs namely EIR (Entrepreneur in Residence) (EIR), Promoting and Accelerating Young and Aspiring innovators and startups (PRAYAS) and Seed Support Program (SSP). In last five years, these programs have generated notable outcomes and impact.

I congratulate the Team of DST for their dedicated efforts and contribution in bringing out the compendium of 75 impactful and promising startups featured under various programs of NIDHI to commemorate Azadi ka Amrit Mahotsav. I also compliment the strong network of DST supported incubators and its nurtured startups, whose noteworthy contribution on innovation and entrepreneurship will not only go a long way in realizing the mission of Atmanirbhar Bharat but also in the nation building.

(Dr. Jitendra Singh)  
MBBS (Stanley, Chennai)  
MD Medicine, Fellowship (AIIMS, NDL)  
MNAMS Diabetes & Endocrinology

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Fax. : 011-23316745

South Block, New Delhi-110011  
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North Block, New Delhi-110001  
Tel. : 011-23092475 Fax : 011-23092716



सत्यमेव जयते

डॉ. एस. चंद्रशेखर  
Dr. S. Chandrasekhar



सचिव  
भारत सरकार  
विज्ञान एवं प्रौद्योगिकी मंत्रालय  
विज्ञान एवं प्रौद्योगिकी विभाग  
**Secretary**  
**Government Of India**  
Ministry of Science and Technology  
Department of Science and Technology



01<sup>st</sup> August, 2022.

### Foreword

Department of Science and Technology (DST) has been playing a significant role in aiding the development of early-stage startups through the adoption of progressive programs and development of pertinent infrastructure. Its contribution in fostering and nurturing the fledgling start-up ecosystem steered through strong network of Incubators is noteworthy both in terms of efforts and impact. The last five years have been fruitful in bringing speed and scale in catalysing programs for the national initiative of Startup India -Standup India. DST introduced a flagship initiative NIDHI- National Initiative for Developing and Harnessing Innovations to influence the Indian startup ecosystem even deeper.

During last few years, concerted efforts of DST has resulted in better outreach, outcomes and impact. It is now evident that DST's initiatives have created an enabling environment for startups and also brought in the multiplier effect through global recognition to the entrepreneurs nurtured and supported through this ecosystem. It is heartening to see that in addition to the incubation support, thousands of innovators and startups have been supported in varied technology domains aligned with key national initiatives under NIDHI-EIR, NIDHI-PRAYAS, and NIDHI Seed Support Program. These programs have resulted in accelerated growth in the number of startups supported, employment, intellectual property generated, and wealth created.

I extend my best wishes to Team of NSTEDB, DST along with Vigyan Prasar, SINE IIT Bombay and Venture Center, Pune in putting up sincere efforts in bringing publication on 75 promising Startups supported under various components of NIDHI Program.

  
(S. Chandrasekhar)

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डा. अनिता गुप्ता  
सलाहकार एवं प्रमुख, इनोवेशन एवं  
इन्ट्रेप्रन्योरशिप (एनएसटीईडीबी)

**Dr. Anita Gupta**  
Advisor & Head, Innovation and  
Entrepreneurship (NSTEDB)\*



भारत सरकार  
विज्ञान और प्रौद्योगिकी मंत्रालय  
विज्ञान और प्रौद्योगिकी विभाग  
टेक्नोलॉजी भवन, नया महरौली मार्ग, नई दिल्ली-110016

GOVERNMENT OF INDIA  
MINISTRY OF SCIENCE & TECHNOLOGY  
DEPARTMENT OF SCIENCE & TECHNOLOGY  
Technology Bhavan, New Mehrauli Road,  
New Delhi - 110016 (India)

1<sup>st</sup> August, 2022



## PREFACE

Startups are the catalyst of change for any economy. The Startup India program has fuelled the ecosystem with strong policy and program support by the government. Today, we see the presence of strong technology and science-based startups across various technology sectors contributing to the nation's mission of self-reliance.

The National Science and Technology Entrepreneurship Development Board ( NSTEDB) of DST has been dynamically adapting its approaches and offerings to suit the national aspiration and needs to foster Science, Technology and Innovation based entrepreneurship. The uniqueness in NSTEDB's approach lies in supporting a strong network of incubators in higher learning institutes to benefit fledgling start-ups .

NSTEDB has taken rapid strides in building the technology-enabled S&T ecosystem in the country, by launching a Program NIDHI (National Initiative of developing and Harnessing Innovation in 2016. NIDHI's array of value added program offers funding support at various stages of product development, including prototype, market validation, enhancing readiness for market and investment. In last five years, the NIDHI program has yielded significant outcomes and impact.

Celebrating Azadi Ka Amrit Mahotsav to mark 75 years of our independence, a compendium featuring 75 promising and impactful Startups as beneficiary of NIDHI PRAYAS Program, is being brought out by DST. My heartiest congratulations to the wonderful effort made by these startups in contributing towards Atmanirbhar Bharat Mission through their innovative products and solutions. I would like to compliment Team NSTEDB, SINE -IITB and all the Incubators implementing PRAYAS Program for their efforts and commitment in making the program successful .

  
(Anita Gupta )

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\* National Science & Technology Entrepreneurship Development Board (NSTEDB)



# IMPACT

4 PRAYAS Editions since 2016



PRAYAS  
Centre:

44



Total  
PRAYASEE  
supported:

1037



Total  
Startups:

673



Prototypes  
Completed:

419



Patents  
Filed:

366



Revenue  
Generated:

₹ 88 cr.



Funding  
Raised:

₹ 248 cr.



Employment  
Generated:

2900



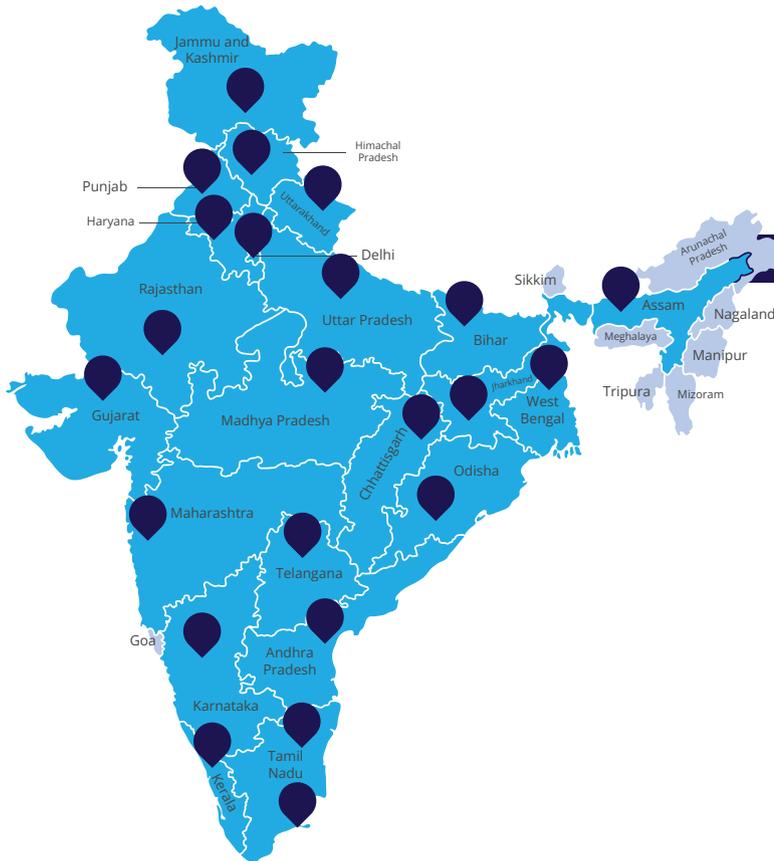
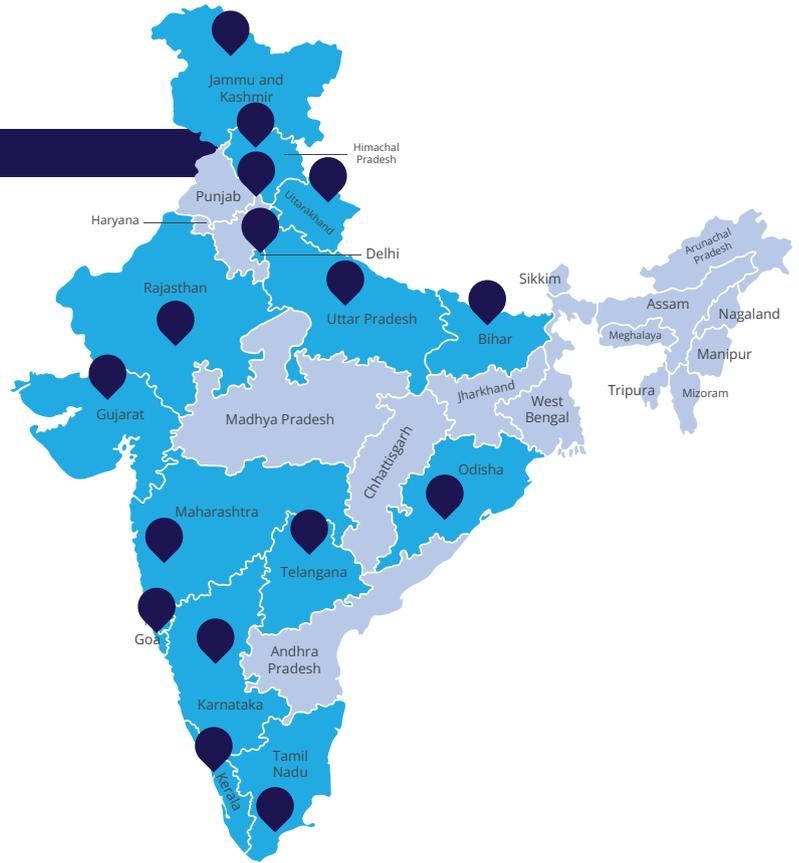
DST PRAYAS  
SHALA:

26

# PRAYAS REACH

## PRAYAS CENTERS STATE-WISE REACH

- |                   |               |
|-------------------|---------------|
| Bihar             | Kerala        |
| Chandigarh        | Maharashtra   |
| Delhi             | Odisha        |
| Goa               | Rajasthan     |
| Gujarat           | Tamil Nadu    |
| Himachal Pradesh  | Telangana     |
| Jammu and Kashmir | Uttar Pradesh |
| Karnataka         | Uttarakhand   |



## PRAYASEES SUPPORTED STATE-WISE REACH

- |                   |                |
|-------------------|----------------|
| Andhra Pradesh    | Madhya Pradesh |
| Assam             | Maharashtra    |
| Bihar             | Odisha         |
| Chhattisgarh      | Puducherry     |
| Delhi             | Punjab         |
| Gujarat           | Rajasthan      |
| Haryana           | Tamil Nadu     |
| Himachal Pradesh  | Telangana      |
| Jammu and Kashmir | Uttar Pradesh  |
| Jharkhand         | Uttarakhand    |
| Karnataka         | West Bengal    |
| Kerala            |                |



# PRAYAS Centres





Ahmedabad University

VentureStudio



SCITECH PARK



SINE  
Business Incubator



ATAL INCUBATION CENTRE  
BANASTHALI VIDYAPITH



BHAU INSTITUTE



Simplifying Startup Innovation

IIEC  
IIT GANDHINAGAR



International Centre for  
Entrepreneurship and Technology

riidl



JARDAR PATEL TECHNOLOGY BUSINESS INCUBATOR  
An Incubator for Super-Peak Startups of Technology



VENTURE  
CENTER



IC IIT PATNA



KIIT-TBI



CHITKARA  
INNOVATION  
INCUBATOR  
FOUNDATION



IIT KANPUR



INCUBATION AND INNOVATION

STARTUP  
INCUBATION AND  
INNOVATION  
CENTRE  
IIT KANPUR



IIITD  
Innovation &  
Incubation Center  
Shaping Ideas to Reality



IIT Mandi  
CATALYST



SMVDU-TBIC



TIDES  
BUSINESS INCUBATOR



परिश्रमेणैव विद्भिः प्राप्सते।





## CRADLEWISE INNOVATIONS Pvt. Ltd., Bangalore & California (US)

### Problem Addressed:

By the age of two, most children have spent more time asleep than awake and overall, a child will spend 40 percent of his or her childhood asleep. Sleep is especially important for children as it directly impacts mental and physical development.

### Innovation / Brief of the product:

Cradlewise is a smart crib for babies from 0 to 2 years of age with integrated baby monitoring, rocking and sleep management solution for infants. The product is a combination of traditional Indian baby hammock (Jholi). The integrated baby monitor can sense the first signs of stirring and automatically rocks the baby to sleep along with soothing music.

**WEBSITE** : [www.cradlewise.com](http://www.cradlewise.com)  
**DOMAIN** : IoT  
**YEAR OF SUPPORT** : 2017-18

### NAME OF PRAYASEE:



Radhika Patil

### TEAM:



Bharath Patil

 TRL Level	: 9
 Patent Granted	: 5
 Funding Raised	: ₹ 5,938 Lakhs
 Revenue Generated	: ₹ 50 Lakhs
 Employment Generated	: 14
 Customer Segment	: B2C

INCUBATOR PARTNER: SOCIETY FOR INNOVATION & ENTREPRENEURSHIP (SINE), IIT BOMBAY



**WEBSITE** : www.astrome.co  
**DOMAIN** : Telecommunication - 5G  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



Neha Satak

**TEAM:**



Prasad Bhatt

## Astrome Technologies Pvt. Ltd., Bangalore

### Problem Addressed:

About 50% of the world's population is not connected to internet. The unconnected primarily reside in rural areas where fibre is too expensive to deploy. There is a need for alternate technology to complement fibre such that cost of internet delivery can be made economical. One of the way to solve this problem is high-throughput wireless backhaul and satellite communications.

### Innovation / Brief of the product:

Developed the world's first multi-beam E-band radio (a viable alternative to fibre) makes it cheaper to distribute multi-Gbps capacity wirelessly. Multiple-Point-to-Point (Multi-P2P) communication means that a single GigaMesh device can simultaneously communicate to multiple surrounding GigaMesh radios while maintaining full data throughput to each surrounding radio. Due to this, the capital expenditure cost per link is very low for GigaMesh deployments. As a result, GigaMesh provides fiber-like backhaul at a fraction of the cost of fiber and enables operators to expand their network quickly.

TRL Level	: 9
Patent Filed	: 2
Funding Raised	: ₹ 3,760 Lakhs
Revenue Generated	: ₹ 11.8 Lakhs
Employment Generated	: 37
Customer Segment	: B2B (Key customers: : Indian Navy, Indian Army, Protelindo, BEL)

INCUBATOR PARTNER: SOCIETY FOR INNOVATION AND DEVELOPMENT, IISc, BANGALORE





## Skylark Drones Pvt. Ltd., Bangalore

### Problem Addressed:

Developing a drone-based image analysis solution that will help streamline compliance, quality management, and analytics for on-field managers of agribusiness and solar companies.

### Innovation / Brief of the product:

Skylark's flagship products provides drone based analysis solutions for agribusiness and solar companies. UAV-sensor pairings (visualthermal and visual-NDVI) measures parameters such as Area of a field, Health of plant, Health of solar panels. Skylark's products DMO & Spectra currently empower 60+ large enterprises including fortune 500 companies.

**WEBSITE** : [www.skylarkdrones.com](http://www.skylarkdrones.com)  
**DOMAIN** : Mechatronics  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Mughilan TR

**TEAM:**



Mrinal Pai

TRL Level	: 9
Funding Raised	: ₹ 2500 Lakhs
Revenue Generated	: ₹ 200 Lakhs
Employment Generated	: 40+
Customer Segment	: B2B (Tata Steel, Alstom, UltraTech Cement, L&T, Reliance Infrastructure, Shapoorji Palonji, Bosch, etc).



**WEBSITE** : [www.minionlabs.tech](http://www.minionlabs.tech)  
**DOMAIN** : Cleantech  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Gokul Srinivas

## Minionlabs India Pvt. Ltd., Bangalore

### Problem Addressed:

In order to save energy costs in any buildings and facilities, the MEP engineer or the facility maintenance should have each and every equipment level energy consumption data, then only the client can be able to find out the problems and make necessary timely actions for energy savings.

### Innovation / Brief of the product:

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.

 <b>TRL Level</b>	: 9
 <b>Patent Filed</b>	: 1
 <b>Funding Raised</b>	: ₹ 1315 Lakhs
 <b>Revenue Generated</b>	: ₹ 22.82 Lakhs
 <b>Employment Generated</b>	: 12
 <b>Customer Segment</b>	: B2B - Energy Contractors, Energy Consultants, Real Estate Players, Etc.



## Amplify Cleantech Solutions Pvt. Ltd., Bangalore

### Problem Addressed:

Enabling smart & sustainable EV charging solutions that fit into existing city infrastructure.

### Innovation / Brief of the product:

EVRE's IntelliPole is a smart street light for the cities of tomorrow. IntelliPole enables street lighting through a solar-powered LED, provides local air quality, is capable of digital advertising, is integrated with smart cameras to perform traffic analytics, can transmit emergency audio messages and can charge up to 3 EVs at a time.

**WEBSITE** : [www.evre.in](http://www.evre.in)  
**DOMAIN** : Electric mobility  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Krishna Jasti

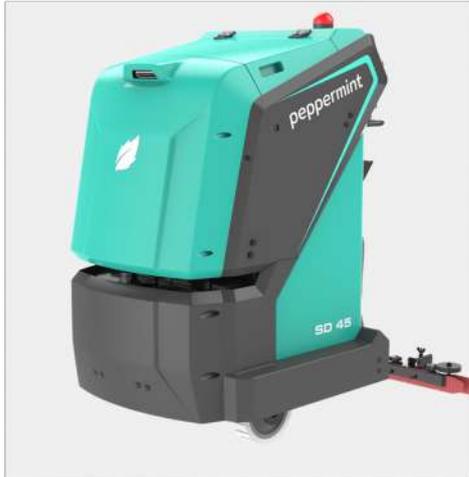
### TEAM:



Chandresh Sethia

	TRL Level	: 9
	Patent Filed	: 2 - (1 Granted)
	Funding Raised	: ₹ 1150 Lakhs
	Revenue Generated	: ₹ 280 Lakhs
	Employment Generated	: 92
	Customer Segment	: B2B(Mahindra Logistics, Meru, Surya International)

INCUBATOR PARTNER: CIE-IIITH FOUNDATION



## Aubotz Labs Pvt. Ltd., Pune

### Problem Addressed:

According to International Labor Organization (ILO); More than 50% services across the world can be automated using current technologies. Peppermint is automating and simplifying - difficult, mundane and dangerous tasks by designing and manufacturing service robotic platforms for enterprises.

### Innovation / Brief of the product:

Peppermint Robots are modular robotic platforms for services like housekeeping, material handling and surveillance. With its cutting edge design, patented technology and bespoke robotics software, Peppermint is helping enterprises automate and optimize costs and manhours by >50% across 3 continents.

**WEBSITE** : [www.getpeppermint.co](http://www.getpeppermint.co)  
**DOMAIN** : Robotics  
**YEAR OF SUPPORT** : 2019-20

### NAME OF PRAYASEE:



Runal Dahiwade

### TEAM:



Miraj Vora

TRL Level	: 9
Patent Filed	: 6-(3 Granted)
Funding Raised	: ₹ 1090 Lakhs
Revenue Generated	: ₹ 146 Lakhs
Employment Generated	: 50
Customer Segment	B2B (Tata Motors, BARC, TVS Motors, Cipla, Flipkart, Godrej, Bajaj Auto)

INCUBATOR PARTNER: SOCIETY FOR INNOVATION & ENTREPRENEURSHIP (SINE), IIT BOMBAY



## Magnic Technologies Pvt. Ltd., Coimbatore



### Problem Addressed:

Gold jewellery is polished using small pins in a washer machine fitted with powerful electromagnets at the bottom. This process may sometimes cause the tiny pins to be stuck with small pores in the jewels. This causes reduction in quality of the jewels produced and to be removed. In the current scenario, the pin is removed manually and is time consuming.

### Innovation / Brief of the product:

Technology that has been developed for the detection of minutest ferrous impurities is by using the finest electromagnetic field sensing sensors and it's electronics circuits which is designed, developed and patented by Magnic Technologies. Externally the machine consists of a conveyor belt which is a platform on which the gold materials can be placed. The conveyor moves at a constant speed of 0.375 Mtr Per Second. At the end of the conveyor, there is a collection tray which is separated into bins.

**WEBSITE** : www.magnic.in  
**DOMAIN** : Mechatronics  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



C.Karthikeyan

TRL Level	: 9
Patent Filed	: 1
Revenue Generated	: ₹ 1100 Lakhs
Employment Generated	: 105
Customer Segment	: B2B - Jewelry Manufacturers



## Adiuvo Diagnostics Pvt. Ltd., Chennai

### Problem Addressed:

Portable reagent-less screening device to detect Mycobacterium tuberculosis by leveraging the autofluorescence of the bacteria.

### Innovation / Brief of the product:

The invention is aiming at a device, which is reagent less, portable to detect the biomolecule with specific intrinsic fluorescence characteristic, of the M.Tuberculosis which can identify the mycobacterium directly from the sputum sample rapidly specially in low resource settings.

**WEBSITE** : [www.adiuvodiagnosics.com](http://www.adiuvodiagnosics.com)  
**DOMAIN** : MedTech  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Geethanjali Radhakrishnan

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 5
	<b>Funding Raised</b>	: ₹ 745 Lakhs
	<b>Revenue Generated</b>	: ₹ 50 Lakhs
	<b>Employment Generated</b>	: 24
	<b>Customer Segment</b>	: B2B - (Multi-speciality Hospitals, Government Hospitals, pathology labs)

INCUBATOR PARTNER: ENTREPRENEURSHIP DEVELOPMENT CENTER (VENTURE CENTER)



## Acceleron Labs Pvt. Ltd., Bangalore

### Problem Addressed:

Currently Edge computing is done using PC, laptops, mobile and small devices. These devices do not have the capability to enhance the edge computing capability as it does not have the ability to increase the computing power required at Edge and Edge Data Centre. A hyper Converged Infrastructure for SME Segment and Miniature Data center for SME can be developed to address this problem.

### Innovation / Brief of the product:

Acceleron Labs has developed GPU adapter card, Server cards. It is a Hyperconverged Appliance and Mini Data Center in a box. The GPU Adapter card adds capability to MDC410 with GPU computing capability. The Server card is developed for adding server capability to MDC410 with server computing capability.

**WEBSITE** : www.acceleronlabs.com  
**DOMAIN** : Information Technology  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



PRASAD L K

TRL Level	: 9
Patent Filed	: 1
Funding Raised	: ₹ 600 Lakhs
Revenue Generated	: ₹ 1230 Lakhs
Employment Generated	: 120
Customer Segment	B2B (CDAC, AIMS, HSCC, ICMR Chennai, BSF (Border Security Force))

INCUBATOR PARTNER: AMRITA TECHNOLOGY BUSINESS INCUBATOR



## Irov (EyeROV)Technologies Pvt. Ltd., Kochi

### Problem Addressed:

Inability to do a visual inspection of ageing structures such as Dams, Bridges (river crossing bridges) and depending on divers for all operations (putting divers' life to risk) has been a great cause for national and personal damages and losses of billions of rupees annually and many lives. Also, data collected are piled up without much use to anyone other than to suffice the authority.

### Innovation / Brief of the product:

EyeROV TUNA is India's First Commercial Underwater Drone/ Remotely Operated Vehicle (ROV). EyeROV TUNA ROV has completed over 1000+ hours of operation doing an underwater inspection of Dams, Bridges, Ports, Offshore structures, Ship Hulls, Pipeline and other.

**WEBSITE** : [www.eyerov.com](http://www.eyerov.com)  
**DOMAIN** : Mechatronics  
**YEAR OF SUPPORT** : 2019-20

### NAME OF PRAYASEE:



Johns T Mathai

### TEAM:



Kannappa Palaniappan

TRL Level	: 8
Patent Filed	: 2
Funding Raised	: ₹ 510 Lakhs
Revenue Generated	: ₹ 201 Lakhs
Employment Generated	: 24
Customer Segment	: B2B (ADANI, NAVALT, Indian Railway, Bharath petroleum, GAIL, Maersk. DRDO, KNNL, DP world)

INCUBATOR PARTNER: MAKER VILLAGE - IIITMK



## Kritsnam Technologies Pvt. Ltd., Jharkhand



**WEBSITE** : [www.kritsnam.in](http://www.kritsnam.in)  
**DOMAIN** : Electronics  
**YEAR OF SUPPORT** : 2017-18

### Problem Addressed:

The solution operates in the Indian delicensed band of 865-867 MHz, and is cost-effective and extremely power efficient. These LPWAN based solutions require minimal power and has less installation costs and is best suited for integrating with low-cost, low-power consuming soil-moisture and soil-nutrient sensors that can be deployed in multiple places across large number of farms.

### Innovation / Brief of the product:

Indigenous development of smart water meter using advanced ultrasonic transit time technology. Dhaara is capable of sensing water flow and transmitting the data in real time using inbuilt cellular embedded sim. Users can track their water usage, receive alerts on crossing limits and advisories to reduce wastage. Designed to comply with CGWA guidelines to install tamper proof smart water meter at all the ground water abstraction structures.

### NAME OF PRAYASEE:



K Sri Harsh

### TEAM:



Vinay Chataraju



Prudhvi Sagar



Neeraj Rai



TRL Level

: 9



Patent Filed

: 3



Funding Raised

: ₹ 600 Lakhs



Revenue Generated

: ₹ 150 Lakhs



Employment Generated

: 20+



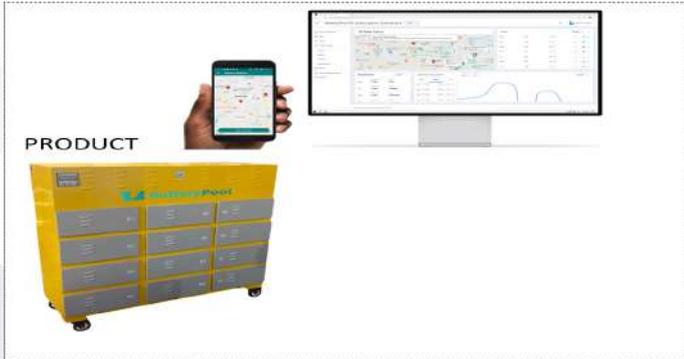
Customer Segment

: B2B ( Hero Groups, Adani Groups, JSW, ITC, Oberoi Hotels)

INCUBATOR PARTNER: STARTUP INCUBATION AND INNOVATION CENTRE, IIT KANPUR



STARTUP  
INCUBATION AND  
INNOVATION  
CENTRE  
IIT KANPUR



## Divish Mobility Pvt. Ltd., Pune

### Problem Addressed:

2/3 W EVs can take 3-4 hours to recharge. There are dearth of charging points in India.

### Innovation / Brief of the product:

BatteryPool builds smart battery swapping stations for 2/3W EVs. These smart swapping stations give access to fully charged battery packs within 30 seconds.

**WEBSITE** : [www.batterypool.com](http://www.batterypool.com)  
**DOMAIN** : Cleantech  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Ashwin Shankar

TRL Level	: 9
Patent Filed	: 2
Funding Raised	: ₹ 300 Lakhs
Revenue Generated	: ₹ 140 Lakhs
Employment Generated	: 20
Customer Segment	: B2B, B2C - E- rickshaw, EV original equipment manufacturers

INCUBATOR PARTNER: ENTREPRENEURSHIP DEVELOPMENT CENTER (VENTURE CENTER)



**WEBSITE** : www.tjtyres.com  
**DOMAIN** : Automobile  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Sameer Panda

## Tycheejuno Speciality Tyres Pvt. Ltd., Delhi

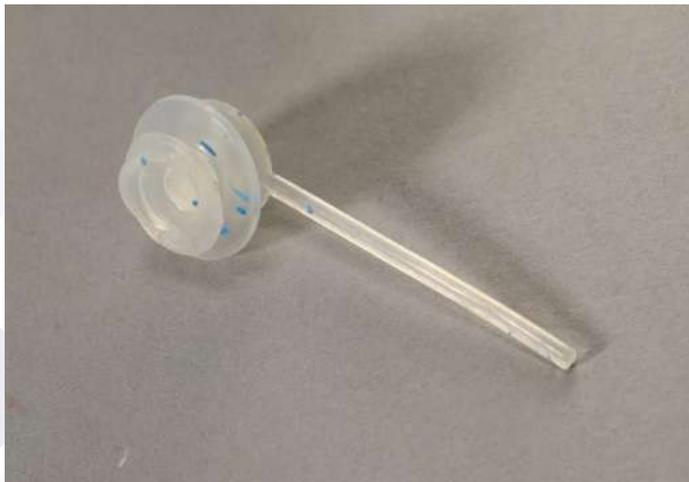
### Problem Addressed:

A sudden loss of pressure in tyre due to puncture or burst results in accidents, inconvenience results in loss of life and time apart from financial loss. Leakage of air/ N<sub>2</sub> from tyre gives rise to decrease in fuel efficiency.

### Innovation / Brief of the product:

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.

 TRL Level	: 9
 Patent Filed	: 2
 Funding Raised	: ₹ 530 Lakhs
 Revenue Generated	: ₹ 25 Lakhs
 Employment Generated	: 40
 Customer Segment	: B2C



## Innaumation Medical Devices Pvt. Ltd., Bangalore

### Problem Addressed:

More than 10,00,000 patients undergo laryngectomy globally and majority of them end up losing their voice. With the existing expensive devices available in the market, it is difficult for lower middle class and poor patients to afford it.

### Innovation / Brief of the product:

Innaumation Medical Devices is connected with bringing back lost voices of laryngectomy patients.

The product is Aum Voice Prosthesis, an affordable voice prosthesis for throat cancer patients. It is a one size fits all device that allows the patient to speak even in the absence of a larynx. Also developing a hands-free version of the device.

**WEBSITE** : [www.innaumation.com](http://www.innaumation.com)  
**DOMAIN** : Medtech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Dr Vishal U S Rao

### TEAM:



Shashank Mahesh

TRL Level	: 9
Patent Filed	: 3
Funding Raised	: ₹ 512 Lakhs
Revenue Generated	: ~ ₹ 9 Lakhs
Employment Generated	: 10
Customer Segment	: B2C



## Emflux Motors Pvt. Ltd., Bangalore

### Problem Addressed:

India is moving into the Electric age. The dependence on energy sources will increase drastically. There is an immediate need for energy-efficient solutions and energy storage equipment that are Made in India for India.

### Innovation / Brief of the product:

Emflux Halcyon is designed and developed keeping in mind the long-term sustainability and reducing the electricity charges that people pay with their ordinary Fan. Emflux is developing solutions such as Halcyon (BLDC ceiling fan), Spotmesiter, and Battery Management systems which can help in conserving and storing energy more efficiently. Emflux Halcyon is Designed, Engineered & Manufactured 100% in India.

**WEBSITE** : [www.emfluxenergy.com](http://www.emfluxenergy.com)  
**DOMAIN** : Electronics  
**YEAR OF SUPPORT** : 2017-18

### NAME OF PRAYASEE:



Varun Mittal

### TEAM:



Ankit Khatri

	TRL Level	: 9
	Patent Filed	: 15
	Funding Raised	: ₹ 400 Lakhs
	Revenue Generated	: ₹ 30 Lakhs
	Employment Generated	: 40+
	Customer Segment	: B2C (Amazon, Flipkart)



## Square Comp Solutions Pvt. Ltd., Chennai

### Problem Addressed:

Enterprises in the Manufacturing, Industrial & other automotive companies on an average spend about 10% of their annual turnover towards training & other simulation activities. To help them in reducing these costs to more than 50% on their current spending by providing them a Virtual Reality based hardware and software solution.

### Innovation / Brief of the product:

Virtual Reality Headset provides a sense of remote operability which can be accessed from anywhere with smart phones which is more engaging and interactive than a regular training environment. An unique lens adjuster on the device which lets the users try different smart phones without having to remove the device.

**WEBSITE** : www.grahasvr.com  
**DOMAIN** : Virtual Reality  
**YEAR OF SUPPORT** : 2018-19

### NAME OF PRAYASEE:



Srinivasan Yagnanarayanan

### TEAM:



Sriram Kesavan

TRL Level	: 8
Patent Filed	: 1
Funding Raised	: ₹ 380 Lakhs
Revenue Generated	: ₹ 7.3 Lakhs
Employment Generated	: 11
Customer Segment	: B2B, B2C ( Kritilabs Technologies, Texas Gaushala)

INCUBATOR PARTNER: VEL TECH TECHNOLOGY INCUBATOR



## MiCoB Pvt. Ltd., Gandhinagar

### Problem Addressed:

Trying to provide rapid economical and durable housing solutions to the lower income group segment through highly automated 3D concrete printing technology.

### Innovation / Brief of the product:

MiCoB focusses on bringing man-machine integration in the construction segment, using its state of the art, 3D concrete printing technology. The company has successfully developed its in-house 3D concrete printers, their printing ink and required software package that allows faster, economic and quality compliant construction.

**WEBSITE** : [www.micob.in](http://www.micob.in)  
**DOMAIN** : BuildTech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Ankita Sinha

### TEAM:



Shashank Shekhar



Rishabh Mathur

TRL Level	: 9
Patent Filed	: 3
Funding Raised	: ₹ 367 Lakhs
Revenue Generated	: ₹ 90 Lakhs
Employment Generated	: 25
Customer Segment	: B2B, B2C ( Indian defence, construction companies )



## DTOWN Robotics Pvt. Ltd., Noida

### Problem Addressed:

Automation with indigenous manufacturing in a cost effective manner is one of the biggest problems in defence and agricultural sectors especially in the day to day monitoring work.

### Innovation / Brief of the product:

Rhino UGV is an unmanned ground vehicle that is developed to find a suitable replacement of tractors over agricultural practices like preparation of soil, sowing, adding manure and fertilizers, irrigation, harvesting and storage.

**WEBSITE** : [www.dtownrobotics.com](http://www.dtownrobotics.com)  
**DOMAIN** : Agritech  
**YEAR OF SUPPORT** : 2019-20

### NAME OF PRAYASEE:



Avinash Chandra Pal

### TEAM:



Manas Upadhyay

TRL Level	: 9
Patent Filed	: 2-(1 Granted)
Funding Raised	: ₹ 300 Lakhs
Revenue Generated	: ₹ 12 Lakhs
Employment Generated	: 9
Customer Segment	: B2B like Security agencies, farming societies etc

INCUBATOR PARTNER: KRISHNAPATH INCUBATION SOCIETY- KIET TBI





**WEBSITE** : [www.ashvaweartech.com](http://www.ashvaweartech.com)  
**DOMAIN** : Medtech  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Anmol Saxena

## Ashva Wearable Technologies Pvt. Ltd., Bangalore

### Problem Addressed:

95% of knee pain and osteoarthritis problems can be resolved in early stages with physiotherapy and avert knee replacement surgeries. While most knee pain complications are diagnosed in the early stages, 80% patients ignore their treatment due to lack of awareness. Solving the problem of lack of awareness and thereby compliance to physiotherapy by knee pain patients with a data driven knee assessment device called Fitknees.

### Innovation / Brief of the product:

Fitknees is an intelligent sensor- based knee assessment and progress monitoring device. The 4 Fitknees motion sensors are strapped to the patient's thigh and shin and connected to a clinician's tablet. Through simple exercises, biomechanical root cause analysis including range of motion, muscle strength, balance, proprioception, gait analysis, etc are done and detailed data analytics reports, called the Kneeports are generated. This helps physiotherapists to explain the knee injury and mechanical factors causing the knee pain better and show patients their progress in physiotherapy.

	<b>TRL Level</b>	<b>: 8</b>
	<b>Patent Filed</b>	<b>: 5</b>
	<b>Funding Raised</b>	<b>: ₹ 295 Lakhs</b>
	<b>Revenue Generated</b>	<b>: ₹ 7.8 Lakhs</b>
	<b>Employment Generated</b>	<b>: 9</b>
	<b>Customer Segment</b>	<b>B2B (Key customers : - Yashoda Hospital and Medical College Hyderabad,)</b>



## Vertical Farming Technologies Pvt. Ltd., Bangalore

### Problem Addressed:

Addressing the problem of lower productivity by creating innovative technologies that can automate various important functions in the farm there by leading to higher productivity and better income for the farmers.

### Innovation / Brief of the product:

Developed a suite of IoT based smart farming solutions that can turn any protected farm into a smart farm. In the smart farm the climate, nutrient, and irrigation management is automated and can be controlled remotely. Further an Artificial Intelligence based rule engine helps the farmer in crop planning and managing day to day operations of the farms.

**WEBSITE** : [www.citygreens.in](http://www.citygreens.in)  
**DOMAIN** : Agritech  
**YEAR OF SUPPORT** : 2018-19

### NAME OF PRAYASEE:



Gaurav Narang

### TEAM:



Shwaita Uniyal



TRL Level

: 9



Funding Raised

: ₹ 280 Lakhs



Revenue Generated

: ₹ 664 Lakhs



Employment Generated

: 57



Customer Segment

: B2C-Farmers growing horticulture crops in protected environment



**WEBSITE** : www.indrawater.com  
**DOMAIN** : Cleantech  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Krunal Patel

**TEAM:**



Abhijit VVR



Amrit Om Nayak

**Inphlox Water Systems Pvt. Ltd., Mumbai.**

**Problem Addressed:**

Recent reports indicate that less than 1% of the world's wastewater is recycled for reuse. Majority of this wastewater is discharged untreated into freshwater bodies & oceans. Due to poor treatment infrastructure, inadequate wastewater monitoring systems and poor discharge control enforcement, the situation has become worse over the years.

**Innovation / Brief of the product:**

The patented decentralized electrically driven modular systems recover upto 99% of wastewater for reuse at point of source. The product Indra treats difficult pollutants including pathogens, heavy metals, suspended and dissolved pollutants among others. Also comply with pollution control regulations while also lowering 40% operational costs, 85% manpower requirements, and 70% sludge generation.



**TRL Level**

: 9



**Patent Filed**

: 4



**Funding Raised**

: ₹ 262 Lakhs



**Revenue Generated**

: ₹ 319 Lakhs



**Employment Generated**

: 30+



**Customer Segment**

B2B (Aditya Birla Group,  
: Tata Steel, Just Textiles  
Limited, Delicia foods  
Monginis)

**INCUBATOR PARTNER: SOCIETY FOR INNOVATION & ENTREPRENEURSHIP (SINE), IIT BOMBAY**



## Elon Motors Engineering Pvt. Ltd., Ahmedabad

### Problem Addressed:

Energy Efficiency in Last mile connectivity while moving people and cargo.

### Innovation / Brief of the product:

Developed Electric Utility Vehicles that are modular, customizable and upgradable as per the purpose required and enabling better connectivity for last mile.

**WEBSITE** : www.auritabikes.com  
**DOMAIN** : Electric Mobility  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



Raghuveer Chadalavada

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 20-(14 Granted)
	<b>Funding Raised</b>	: ₹ 245 Lakhs
	<b>Revenue Generated</b>	: ₹ 40 Lakhs
	<b>Employment Generated</b>	: 12
	<b>Customer Segment</b>	: B2B, B2C (Mahindra Logistics Limited, Statue of Unity)

INCUBATOR PARTNER: INTERNATIONAL CENTRE FOR ENTREPRENEURSHIP AND TECHNOLOGY (ICREATE)



## GreenJams BuildTech Pvt. Ltd., Visakhapatnam

### Problem Addressed:

100 million tonnes of crop residues are being burnt in the country causing 2 lakh crore rupees of economic losses due to loss of public health and worker productivity. 45% share of buildings in global carbon dioxide emissions is because of poor energy efficiency of buildings and carbon intensive construction materials and activities.

### Innovation / Brief of the product:

A carbon-negative building material made from crop residues such as rice straw, bagasse, cotton stalks, etc and by-products of steel and power industries. Available in the form of hollow blocks to replace conventional bricks for up to 50% cheaper construction and 350% higher thermal insulation.

**WEBSITE** : [www.greenjams.org](http://www.greenjams.org)  
**DOMAIN** : Buildtech  
**YEAR OF SUPPORT** : 2021-22

### NAME OF PRAYASEE:



Tarun Jami

### TEAM:



Varun Jami

TRL Level	: 9
Patent Filed	: 2
Funding Raised	: ₹ 232 Lakhs
Revenue Generated	: ₹ 20 Lakhs
Employment Generated	: 24
Customer Segment	B2B, B2C ITC Ltd, CBRE : South Asia Pvt. Ltd., Shell, Tricon Buildwell Pvt. Ltd.



## Ayati Devices Pvt Ltd., Bangalore

### Problem Addressed:

Most of the 400+ million diabetic patients in the world may be unaware of the looming threat of foot ulcers leading to amputation. High glucose in the blood can lead to neuropathy - damage of nerve cells and loss of sensation, especially on foot. Hidden injuries are not felt, do not heal, become ulcers, and if untreated lead to gangrene and require amputations - ranging from toe to entire leg.

### Innovation / Brief of the product:

Point of care screening solution to screen diabetic neuropathic patients at an early stage to prevent foot amputations. The device integrates all three stimuli - pressure, vibration, and temperature in a single unit and automate the process, thereby making it easy to use by general practitioners and paramedics.

**WEBSITE** : [www.ayatidevices.com](http://www.ayatidevices.com)  
**DOMAIN** : MedTech  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Nishant Kathpal

 <b>TRL Level</b>	: 9
 <b>Patent Filed</b>	: 2
 <b>Funding Raised</b>	: ₹ 220 Lakhs
 <b>Revenue Generated</b>	: ₹ 150 Lakhs
 <b>Employment Generated</b>	: 12
 <b>Customer Segment</b>	: B2B - Diabetic / Foot specialist, Hospitals etc

INCUBATOR PARTNER: SOCIETY FOR INNOVATION & ENTREPRENEURSHIP (SINE), IIT BOMBAY



## Marut Dronetech Pvt. Ltd., Hyderabad

### Problem Addressed:

The socio-economic burden due to malaria alone is pegged at around \$1.94 billion and dengue for a billion more. About 1 billion people in India live in an endemic areas and are prone to risk. As per the World Health Organization, diseases such as Dengue, and Malaria push more and more people into poverty each year.

### Innovation / Brief of the product:

Developed a comprehensive mosquito control program that is contiguous, effective, and sustainable. The solution include real-time mosquito prevalence data, anti-larvae operations, automated interventions, effective IEC campaigns, and efficient field operations using IoT sensors. India's 1st Mosquito Eradication Drone. 1 Lakh+ acre anti-larval spraying impacting 1mn lives.

**WEBSITE** : [www.marutdrones.com](http://www.marutdrones.com)  
**DOMAIN** : Mechatronics  
**YEAR OF SUPPORT** : 2019-20

### NAME OF PRAYASEE:



Prem Kumar Vislawath

### TEAM:



Suraj Peddi



Sai Kumar

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 3
	<b>Funding Raised</b>	: ₹ 120 Lakhs
	<b>Revenue Generated</b>	: ₹ 300 Lakhs
	<b>Employment Generated</b>	: 35
	<b>Customer Segment</b>	: B2B (GHMC, ICRISAT, PJTSAU, ITC, TATA RALLIS, APOLLO)

INCUBATOR PARTNER: CIE-IIITH FOUNDATION



**WEBSITE** : [www.navainnovation.com](http://www.navainnovation.com)  
**DOMAIN** : AgriTech  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



Charles Vijay Varghese

## Nava Design & Innovation Pvt. Ltd., Kochi

### Problem Addressed:

One of the riskiest professions in agriculture is manual tapping of coconut flowers. In order to reach one flower throughout the normal 3 months of sap production, a tapper must climb the same tree 270 times. Minor errors while taping result in death or severe disability. There is no technology available to help the tappers or to increase their productivity.

### Innovation / Brief of the product:

Robotic Neera Tapping Device. The product SAPER is the World's First Coconut Sap Tapping Robot with IoT, AI & ML that can perform all the activities of a traditional tapper, and the fresh sap is brought & collected at the ground level without any contamination. SAPER can perform all the activities of a traditional tapper and the fresh sap is collected at the ground level. With the centralised closed collection technology, fresh contamination-free sap from multiple trees can be collected and stored. A tapper is required to install and dismantle the device and thus reduces the burden of tree climbs from 270 times to just 2 times for an inflorescence.

TRL Level	: 9
Patent Filed	: 3
Funding Raised	: ₹ 210.8 Lakhs
Revenue Generated	: ₹ 68.1 Lakhs
Employment Generated	: 10
Customer Segment	B2B (Key customers: : Lionhert, Agrotech Ltd, Rockland distilleries, Tirukochi Neera

INCUBATOR PARTNER: MAKER VILLAGE - IIITMK



## Felis leo widgets Pvt. Ltd., Bhubaneshwar

### Problem Addressed:

Li-ion batteries are toxic and non-recyclable, posing a huge threat to sustainability, besides these batteries take about 4-6 hours to charge, making it nearly impossible to adapt to the EV industry as a daily home commodity. The vehicles powered by these batteries do not have a huge accommodating range either. They hardly give about 70 - 100 kms range for 2W EVs. Since these batteries are mostly imported / assembled, it leads to increase in the costs in turn increasing cost of the Electric Vehicles.

### Innovation / Brief of the product:

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 this residue is used 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 / crosslinked material to achieve the desired electrodes for the flow of electrons in the battery

**WEBSITE** : [www.nexuspower.in](http://www.nexuspower.in)  
**DOMAIN** : Cleantech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Nishita Balliarsingh

### TEAM:



Nikita Balliarsingh

 TRL Level	: 6
 Patent Filed	: 1
 Funding Raised	: ₹ 366 Lakhs
 Employment Generated	: 15
 Customer Segment	: B2B - Electric Vehicles, OEMs



## Liger Mobility Pvt Ltd., Mumbai

### Problem Addressed:

Due to low average height a lot of Indian women find it difficult to balance two wheelers. A significant number of people don't know how to ride, or don't have the confidence of balancing two wheelers. 150 million Indians suffer from knee problems but continue to use 2 Wheelers despite the pain associated with frequent jerky movements and they are relatively unsafe, with 120+ lives lost in accidents in India daily.

### Innovation / Brief of the product:

Liger Mobility is a Mumbai-based deep-tech startup that has built an Auto-balancing Electric Scooter. The tech enhances comfort and safety for two-wheeler riders. Auto-balancing is also the building block for autonomous and remote driven two-wheelers, which are relevant for improving operational efficiency and customer experience in Shared Mobility markets.

**WEBSITE** : [www.ligermobility.com](http://www.ligermobility.com)  
**DOMAIN** : Automobile  
**YEAR OF SUPPORT** : 2017-18

### NAME OF PRAYASEE:



Vikas Poddar

### TEAM:



Ashutosh Upadhyay

	TRL Level	: 7
	Patent Filed	: 5-(1 Granted)
	Funding Raised	: ₹ 305 Lakhs
	Employment Generated	: 7
	Customer Segment	: B2C

INCUBATOR PARTNER: SOCIETY FOR INNOVATION & ENTREPRENEURSHIP (SINE), IIT BOMBAY



## Renkuba Pvt. Ltd., Bangalore

### Problem Addressed:

"Renewable energy is no longer an alternative"- The Economist. In order to accelerate its adoption across all sectors, the cost of energy generation must be lowered.

### Innovation / Brief of the product:

Renkuba offers Motion free Optical Tracking for Solar Panels that increases the energy yield in solar panel by 20% without any increase in capital cost. Thus, it makes solar energy more affordable with the patent pending light redirecting prisms.

**WEBSITE** : [www.renkuba.com](http://www.renkuba.com)  
**DOMAIN** : Energy  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Dr Lakshmi Santhanam

### TEAM:



Balaji Bangolae

TRL Level	: 7
Patent Filed	: 1
Funding Raised	: ₹ 230 Lakhs
Revenue Generated	: ₹ 2 Lakhs
Employment Generated	: 2
Customer Segment	: B2B and B2C -Solar Farm Owners, Solar Panel Providers, Government etc



**WEBSITE** : www.cureous.in  
**DOMAIN** : Healthcare  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



Asish Mohandas

## Cureous Labs Pvt. Ltd., Bangalore

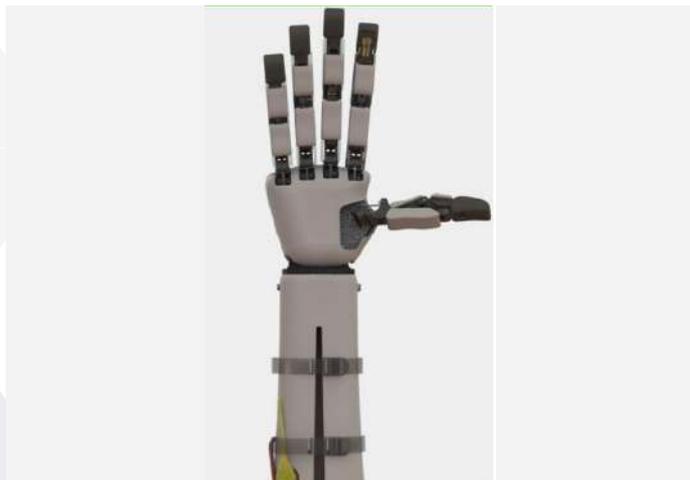
### Problem Addressed:

Pressure Ulcers / bedsores is one of the costliest and physically debilitating medical condition occurring to bedridden patients. If not prevented early it leads to very high treatment cost, affects quality of life, increases length of stay in hospitals and burden to caretakers in terms of money and time.

### Innovation / Brief of the product:

Eternal is an automatic repositioning system capable of repositioning the patient to stable sleep position thereby shifting and redistributing the pressure acting on the body and eliminating the chances of getting a bed sore. As a result, the pain and loss of time experienced by the caretakers due to conventional manual repositioning is completely eliminated.

 <b>TRL Level</b>	<b>: 5</b>
 <b>Patent Filed</b>	<b>: 1</b>
 <b>Funding Raised</b>	<b>: ₹ 228 Lakhs</b>
 <b>Employment Generated</b>	<b>: 5</b>
 <b>Customer Segment</b>	<b>: B2B and B2C- Private Hospitals   At home bedridden patients</b>



## Life and Limb Pvt. Ltd., Ghaziabad

### Problem Addressed:

Upper limb prosthetic hand with adaptive grasp which is water resistant, retro-fit and AI enabled. The hand weighs less than 500 g, can perform 6 grip patterns and achieve 15% of activities of daily living.

### Innovation / Brief of the product:

Developed a multi-fingered prosthetic hand comprising a hand frame with one thumb and four fingers for trans-radial amputees. The basic idea is to design and develop an underactuated hand with a combination of a compound mechanism for individual fingers, which are coordinated together by the whiffle-tree system. The whiffle-tree system will allow for single point actuation for all the fingers, thereby reducing the hardware complexity and cost.

**WEBSITE** : [www.lifeandlimb.ai](http://www.lifeandlimb.ai)  
**DOMAIN** : MedTech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Nishant Agarwal

### TEAM:



Prachi Kharb

TRL Level	: 7
Patent Filed	: 4
Funding Raised	: ₹ 220 Lakhs
Employment Generated	: 22
Customer Segment	: B2B (KIWANIS Artificial Limb Centre, AIIPMR Mumbai)

INCUBATOR PARTNER: STARTUP INCUBATION AND INNOVATION CENTRE, IIT KANPUR



## Fuma Labs Pvt. Ltd., Gwalior

### Problem Addressed:

Stubble management as crop burning is one of the dominant factors for air-pollution, additional revenue stream generation for the farmer and deforestation for raw material.

### Innovation / Brief of the product:

Converting crop residue into value added products for furniture and packaging applications.

**WEBSITE** : [www.crate.co](http://www.crate.co)

**DOMAIN** : Environment

**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Onkar Siddheshwar

### TEAM:



Shubham Singh



Dr. Himansha Singh



TRL Level

: 9



Patent Filed

: 2



Funding Raised

: ₹ 210 Lakhs



Revenue Generated

: ₹ 5 Lakhs



Employment Generated

: 10

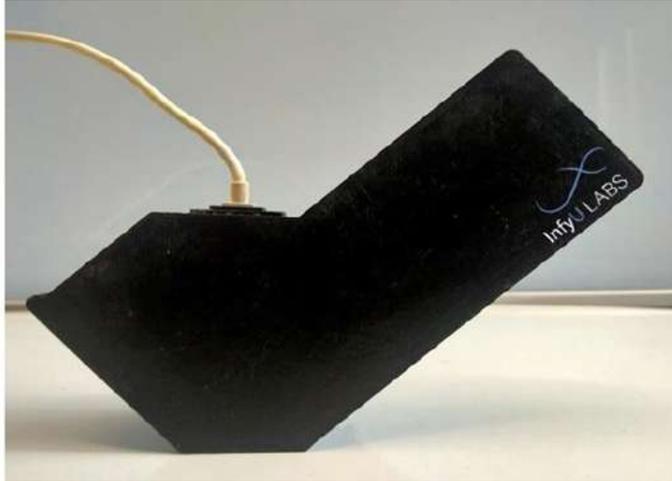


Customer Segment

: B2B (Key customers : AB InBev, IKEA, Nestle)

INCUBATOR PARTNER: ENTREPRENEURSHIP DEVELOPMENT CENTER (VENTURE CENTER)





**WEBSITE** : [www.infyulabs.com](http://www.infyulabs.com)  
**DOMAIN** : AgriTech  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Amit Srivastava

**TEAM:**



Ankit Chauhan

## InfyU Labs Pvt. Ltd., Gandhinagar

### Problem Addressed:

Currently, around 1/3rd of the world's perishable fruits and vegetables are getting into wastage across different levels of the supply chain. In India, the statistics shoot to 48-52%. Around 20% of a fruit lot is transported as sample to the designated testing lab for testing for parameters such as chemical composition, nutritional value, and pesticides content present, which requires sophisticated and costly instruments. If these variables are detected at the source of procurement itself, then the necessary measures can be taken before itself in order to avoid food wastage and enhancing the healthiness of the end-product.

### Innovation / Brief of the product:

InfyU Labs' handled solution, InfyZer, uses the principles of spectroscopy powered by Artificial Intelligence to determine the internal quality parameters such as TSS, pH, Firmness, Ripeness, Internal Color and Temperature, Shelf Life etc in just a matter of seconds for fresh fruits and vegetables without cutting them. This is further integrated with an AI-based web dashboard to enable data driven decision making for reducing these wastages and determine the quality forecast of the Fruits & Vegetables kept in the cold storage.

TRL Level	: 8
Patent Filed	: 1
Funding Raised	: ₹ 200 Lakhs
Revenue Generated	: ₹ 25 Lakhs
Employment Generated	: 22
Customer Segment	: B2B, B2C (BigBasket, Suprdaily, ANGD fruit Ranch)



## Tishyas Medical Device Development Solutions Pvt. Ltd., Bangalore

### Problem Addressed:

80% of the preventable blindness is prevalent especially in rural India. Key reasons being unable to detect the blindness causing diseases such as Glaucoma, Diabetic retinopathy, AMD etc that constitute 40% of the blindness at early stages.

### Innovation / Brief of the product:

IXanner® is an Optical Coherence Tomography based diagnostics device that allows comprehensive screening of diseases such as glaucoma, diabetic retinopathy and Age related Macular Degeneration. It's the world's first, light weighted (<10Kg), battery run (upto 2.5 hrs per battery), tele-medicine compatible point-of-care diagnostic device that can be carried to anywhere.

**WEBSITE** : [www.medevplus.com](http://www.medevplus.com)  
**DOMAIN** : MedTech  
**YEAR OF SUPPORT** : 2019-20

### NAME OF PRAYASEE:



Dr Ravi Kiran Manapuram

### TEAM:



Sweta Patnaik

TRL Level	: 9
Patent Filed	: 1
Funding Raised	: ₹ 144 Lakhs
Revenue Generated	: ₹ 113 Lakhs
Employment Generated	: 17
Customer Segment	: B2B (Key customers: SAMEER, IITH, VIT)



## Embright Infotech Pvt. Ltd., Thiruvananthapuram

### Problem Addressed:

The ratio of 159 children diagnosed with Autism Spectrum Disorder ASD all around the world according to the Centre of Autism Disease Control and Prevention Survey. Research indicates that there is no medical detection for autism. Nearly 20% of 8 year old's with ASD have self injurious behaviors.

### Innovation / Brief of the product:

A continuous updated therapy in Virtual Reality environment that will help enhance the cognitive self care and social interactive behavior of patients. With the help of eye tracking and BCI sensors each child gets the maximum care and their performance data are monitored by Doctors for diagnosing them in depth.

**WEBSITE** : [www.embrightinfotech.com](http://www.embrightinfotech.com)  
**DOMAIN** : Healthcare  
**YEAR OF SUPPORT** : 2019-20

### NAME OF PRAYASEE:



Sathyanarayanan A R

### TEAM:



Bobin Chandra

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 2
	<b>Funding Raised</b>	: ₹ 112 Lakhs
	<b>Revenue Generated</b>	: ₹ 117.49 Lakhs
	<b>Employment Generated</b>	: 49
	<b>Customer Segment</b>	: B2B( Kerala Social Security Mission Govt of Kerala, MG University)

INCUBATOR PARTNER: VEL TECH TECHNOLOGY INCUBATOR



## Rapture Innovation Labs Pvt. Ltd., Hubballi

### Problem Addressed:

WHO reports that 1.1 Billion youth globally suffers from hearing loss from headphones. Headphones have limited low-frequency audio output, unlike speakers which are not optimized across genre & lacks personalization. And most people enjoy bass frequency the most and thus increase audio volume which in turn results in 1 in 5 teens suffering from hearing loss.

### Innovation / Brief of the product:

Aura headphone provides high-fidelity, personalized and theatre-like audio experience without compromising on hearing safety. They overcome the current technology limitation in headphones by using a hybrid and dual driver acoustics with a combination of Air and Bone conduction principle.

**WEBSITE** : www.rapture.works  
**DOMAIN** : Consumer Tech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Navajith Karkera

### TEAM:



Jagath Biddappa

 TRL Level	: 9
 Patent Filed	: 2
 Funding Raised	: ₹ 180 Lakhs
 Employment Generated	: 5
 Customer Segment	: B2C



**WEBSITE** : [www.avrio.energy](http://www.avrio.energy)  
**DOMAIN** : Energy  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Puneet Batra

**TEAM:**



Ankit Chouhan



Nikhil Raut

## Avrio Energy Pvt. Ltd., Delhi

### Problem Addressed:

The problem becomes apparent from the fact that buildings have long life cycles and during the entire lifecycle of any building, around 80% of the cost goes into energy (40%), maintenance (30%) and operations (10%). Currently 90% of such building operators do not have sufficient access to data and analytics tools to operate their building infrastructure efficiently to reduce their operating costs and carbon footprint. A need is a simple, effective, low-cost solution that provides the requisite data and tools.

### Innovation / Brief of the product:

Building a Polyphase Cutting-Edge Non-Intrusive AI Smart Meter with intelligence at edge and deep learning that processes as well as detects all the appliances in a circuit from a single sensor and works as a virtual energy auditor. The facility and asset management platform helps clients to simply monitor detailed appliance level analyses, in-prompt alerts regarding all the outlets, automatic detailed monthly reporting and work management, on a click of a button from the mobile app. It can be installed on any existing distribution panel without hard-wiring.



**TRL Level**

: 8



**Funding Raised**

: ₹ 168 Lakhs



**Revenue Generated**

: ₹ 2.5 Lakhs



**Employment Generated**

: 15



**Customer Segment**

: B2B (SESCOM, BSES, Big Basket, Burger Club, Wow Momos, Burger Singh, PLDT, Go Stops)



**WEBSITE** : <http://www.prayogik.in>  
**DOMAIN** : IndustryTech  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Vijay Mamtani

## Prayogik Technologies Pvt. Ltd., Bhopal

### Problem Addressed:

Lack of ready, affordable, autonomous and perpetual power source for industrial applications in remote locations and in a low-resource setting, especially Oil & Gas Industrial installations.

### Innovation / Brief of the product:

The company is working towards Power management solutions (renewable also) converting heat into Energy without any moving part. Major Sector are Oil and Gas (converting LPG/CNG to Electricity), Defense Sector (from -40deg to +70deg Celsius), Agriculture Sector (converting biomass to electricity), Aerospace Sector (using radioisotopes to electricity for space exploration), Health Sector (Flexible TEG converting body heat to electricity for Biosensors), Geothermal Energy (Coal Mines waste heat to electricity) and any Off Grid Sector.

TRL Level	: 9
Patent Filed	: 2
Funding Raised	: ₹ 164 Lakhs
Revenue Generated	: ₹ 1.35 Lakhs
Employment Generated	: 10+
Customer Segment	: Oil Industry, Defence

INCUBATOR PARTNER: AHMEDABAD UNIVERSITY SUPPORT FOUNDATION, (VENTURE STUDIO)



## Offgrid Energy Labs Pvt. Ltd., New Delhi



### Problem Addressed:

Building a sustainable and efficient Zinc-based battery that can be manufactured in India for renewable and low-powered EV applications.

### Innovation / Brief of the product:

Development of commercial prototype of ZincGel™ battery for electric 3 wheeler and for solar power backups. Developed a membrane less redox technology to avoid dendrite formation. Zinc iodide system can work at higher voltage of 2.2V as compared to existing zinc iodide batteries which work at 1.3V.

**WEBSITE** : [www.offgridenergylabs.com](http://www.offgridenergylabs.com)  
**DOMAIN** : CleanTech  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Tejas Kusrkar

**TEAM:**



Brindan Tulachan

TRL Level	: 6
Patent Filed	: 4
Funding Raised	: ₹ 160 Lakhs
Employment Generated	: 8
Customer Segment	: B2B - EV manufacturers.

INCUBATOR PARTNER: STARTUP INCUBATION AND INNOVATION CENTRE, IIT KANPUR



STARTUP  
INCUBATION AND  
INNOVATION  
CENTRE  
IIT KANPUR



## Evlogia Eco Care Pvt. Ltd., Bangalore

### Problem Addressed:

The lack of degradable single-use cutlery such as plastic straws creates enough waste to wrap the circumference of the earth.

### Innovation / Brief of the product:

Evlogia Eicare developed leafy single use drinking straws that is a patented product -these single use straws are made from fallen dry coconut palm leaves which otherwise are discarded and burned as a waste. Leafy straws are the most cost effective organic straws in the world today and they are better in functionality than paper straws. Leafy straws can be made in different sizes and with sharp edges to work as tetra pack straws.

**WEBSITE** : www.EvlogiaEco.com  
**DOMAIN** : CleanTech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Manigandan Kumarappan

### TEAM:



Mrs. Radha



TRL Level

: 9



Patent Filed

: 7-(4 Granted)



Funding Raised

: ₹ 150 Lakhs



Revenue Generated

: ₹ 32 Lakhs



Employment Generated : 40 Women



Customer Segment

B2B (Key customers:  
: Disposable Green UK,  
RawLine Canada, World  
of Coffee, Chikmagalur)

INCUBATOR PARTNER: AMRITA TECHNOLOGY BUSINESS INCUBATOR



**WEBSITE** : [www.altorsmarthelmet.com](http://www.altorsmarthelmet.com)  
**DOMAIN** : Electronics  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



Shamik Guha

**TEAM:**



Sayan Thappar

## Praesus Technologies Pvt. Ltd., Kolkata

### Problem Addressed:

Road accidents contribute to nearly 1.3 million deaths, and over 30 million hospitalizations every year, globally, with the impact more pronounced in Asian countries. This invention addresses the problem with a smart helmet with lightweight, modular technology that fits inside regular motorcycle helmets. It significantly increases the ease of locating an administering medical aid to an accident victim right after a crash, and also gamifies safe driving to make the rider drive better.

### Innovation / Brief of the product:

The inventors of this technology developed a smart helmet to collect real-time data and help to reduce operational and personal risk while providing and encouraging enhanced road safety.



**TRL Level**

: 8



**Patent Filed**

: 1



**Funding Raised**

: ₹ 147 Lakhs



**Employment Generated** : 7



**Customer Segment**

: B2C , B2B - Government  
Centres, Domino's,  
Swiggy etc



**WEBSITE** : www.peeschute.com  
**DOMAIN** : Sanitation  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Siddhant Tawarawala

## Peeschute Pvt. Ltd., Ahmedabad

### Problem Addressed:

While traveling, camping or at places where there is a dearth of toilets or urinals holding urine for too long can weaken the bladder muscles over time. It can also lead to problems such as incontinence and, in the long run not being able to fully empty the bladder.

### Innovation / Brief of the product:

The solution lay in the development of a unisex disposable urine bag that helps many relieve themselves without the bother of spilling. The disposable urine bag is lined with a special gel that instantly solidifies urine, turning it into an odour-free, non-liquid that can be stored and disposed of at one's convenience. The pouch itself is shaped like an envelope which fits into the pocket and can also be easily sealed after use.

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 2
	<b>Funding Raised</b>	: ~ ₹ 139 Lakhs
	<b>Revenue Generated</b>	: ₹ 50 Lakhs
	<b>Employment Generated</b>	: 7
	<b>Customer Segment</b>	: B2C

INCUBATOR PARTNER: AHMEDABAD UNIVERSITY SUPPORT FOUNDATION, (VENTURE STUDIO)





**WEBSITE** : [www.hiperautomotive.com/](http://www.hiperautomotive.com/)  
**DOMAIN** : Automobile  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Shiram Thirumalai

## High Performance Engineering and Research Pvt. Ltd., Chennai

### Problem Addressed:

Heavy Commercial Vehicles (HCVs) like Buses & Trucks are highly polluting & expensive to operate due to their high Diesel consumption. This leaves a razor thin margin (<5%) for logistics & transport operators. HiPER's UNO helps save Diesel for heavy buses & trucks through proprietary technology.

### Innovation / Brief of the product:

Using the embedded sensors in modern vehicles, Hiper hardware / IoT device records & transmits real world usage data. This data helps us understand parameters like Driver behaviour, Environmental & Traffic conditions (City/ Highway), Terrain, and Vehicle Health. The device also helps commercial fleets track data like GPS location, Diesel consumption, vehicle health parameters that help them digitize their operations.

TRL Level	: 9
Patent Filed	: 1
Funding Raised	: ₹ 120 Lakhs
Revenue Generated	: ₹ 3.85 Lakhs
Employment Generated	: 15
Customer Segment	: B2B (Mahindra Logistics Ltd., VRL Ltd)

INCUBATOR PARTNER: TECHNOLOGY BUSINESS INCUBATOR AT KONGU ENGINEERING COLLEGE



## Rana Semiconductors Pvt. Ltd., Hosur

### Problem Addressed:

Developed product augments Crystal Growth in Controlled Condition(s), under varied ambience.

### Innovation / Brief of the product:

Development of MoSi<sub>2</sub> high temperature furnace to reduce the non-homogeneity. It provides uniform and better temperature homogeneity in MoSi<sub>2</sub> furnace. A professional process automation system with adaptive control and intelligent adjustment of controller parameters is developed using embedded control algorithm.

**WEBSITE** : www.raana.in  
**DOMAIN** : Manufacturing  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Rajasekar. E

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 1
	<b>Revenue Generated</b>	: ₹ 400 Lakhs
	<b>Employment Generated</b>	: 60
	<b>Customer Segment</b>	: B2B ( IGCAR, MoD, BARC, DoS.)

INCUBATOR PARTNER: DETI@ACE - TBI





**WEBSITE** : [www.aristavault.com](http://www.aristavault.com)  
**DOMAIN** : ConsumerTech  
**YEAR OF SUPPORT** : 2021-22

## Arista Vault, Delhi

### Problem Addressed:

According to HT Times Reports (2017-18) there are close to 25 lakh cases of Mobile & Wallet theft that get reported each year in India in crowded places. Loss & Theft of personal belongings, Wealth, Data, Cash, Card, Mobile Phone Personal safety, Women Safety, Child Safety,

### Innovation / Brief of the product:

She-Bot A Wallet for women with Anti lost/Anti-theft, Burglary alarm, SOS/Distress Alert Power charging, Mark lost location tracking, Live GPS tracking, Google tagging. Each wallet has a unique signature that is only known to its owner once they connect the Bluetooth gadget to their user account on the accompanying mobile app. This connection is set up with Bluetooth Low Energy, both the device and the gadget use a truly negligible amount of power.

**NAME OF PRAYASEE:**



Purvi Roy

**TEAM:**



Col. K.K. Singh

TRL Level	: 9
Patent Filed	: 6
Funding Raised	: ₹ 100 Lakhs
Revenue Generated	: ₹ 200 Lakhs
Employment Generated	: 25
Customer Segment	: B2C ( Travellers, Businessmen, Urban working women)

INCUBATOR PARTNER: AMRITA TECHNOLOGY BUSINESS INCUBATOR



**WEBSITE** : [www.gdepl.org](http://www.gdepl.org)  
**DOMAIN** : CleanTech  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Ajit Gadgil

**TEAM:**



Abhijit Datar

## GD Environmental Pvt. Ltd., Pune

### Problem Addressed:

Urban agglomerations are characterized by poor municipal solid waste management and processing. They generate substantial amount of waste that is currently left unprocessed and dumped in landfill sites. They lack the ability to process inorganic dry waste which has emerged as one of the most uncontrolled threats to the environment.

### Innovation / Brief of the product:

Selected under The Waste to Wealth Mission of Government of India headed by the office of the Principal Scientific Adviser (PSA), GDEPL's patent pending technology gasifies all dry waste material, converts it into thermal energy and a small residue of ash. Uniquely, wet waste containing 40 to 50 % moisture can also be gasified without any pre-drying. Waste is also used producing drop in fuel, water proof paint, pallets and fly-ash bricks.

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 2
	<b>Funding Raised</b>	: ₹ 100 Lakhs
	<b>Revenue Generated</b>	: ₹ 200 Lakhs
	<b>Employment Generated</b>	: 12
	<b>Customer Segment</b>	: B2B - Governments, Civic bodies, Townships for Municipal Solid Waste Disposal

INCUBATOR PARTNER: SCIENCE AND TECHNOLOGY PARK, PUNE





## Ayurarogya Saukhyam Foundation, Kollam

### Problem Addressed:

India has ~ 355,000,000 women/girls in need of sanitary pads each month. The absorbent material in disposable sanitary napkins is cellulose fiber which is obtained by cutting trees. Non-biodegradable sanitary napkins cause pollution for hundreds of years which in turn creates environmental problems.

### Innovation / Brief of the product:

Saukhyam is the world's first team using banana fiber to make reusable menstrual pads. These cost only one-tenth the amount one must otherwise spend on disposable sanitary napkins.

**WEBSITE** : [www.saukhyampads.org](http://www.saukhyampads.org)  
**DOMAIN** : Menstrual Health  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Anju Bist

**TEAM:**



Meena Bhate

TRL Level	: 9
Patent Filed	: 2
Funding Raised	: ₹ 100 Lakhs
Revenue Generated	: ₹ 60 Lakhs
Employment Generated	: 46
Customer Segment	: B2C

INCUBATOR PARTNER: AMRITA TECHNOLOGY BUSINESS INCUBATOR



## Steradian Technologies Pvt. Ltd., Chennai

### Problem Addressed:

Making healthcare (primary) services affordable and available to public citizens at rural environment remotely making expert doctors consultation via Telemedicine. India being a large country with diverse social fabric, finding an integrated healthcare solution was difficult.

### Innovation / Brief of the product:

Steradian solution is bridging the digital & physical gap by advanced IOT connected Vital Sensing Parameters. Seven vital parameters in 1 device wearable form-factor body-worn and portable on ambulatory condition. Integrated sensors with advance bio-signal processing via advanced AI/ML algorithms and motion sensors intelligence. The product is designed with future CE/FDA/ISO/IEC certification.

**WEBSITE** : [www.steradian.ai](http://www.steradian.ai)  
**DOMAIN** : Medtech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Satyabrata Mohanty

### TEAM:



Aneesh Mohan



TRL Level

: 9



Funding Raised

: ₹ 100 Lakhs



Revenue Generated

: ₹ 50 Lakhs



Employment Generated

: 12



Customer Segment

: B2B like Hospitals,  
Healthcare focused  
Service Non-Government  
Organizations and Not-  
for-Profit Social Societies

INCUBATOR PARTNER: MADEIT INNOVATION FOUNDATION





**WEBSITE** : www.byteseal.in  
**DOMAIN** : Cyber Security  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Nikhilesh Wani

## Elementik Technologies Pvt. Ltd., Pune

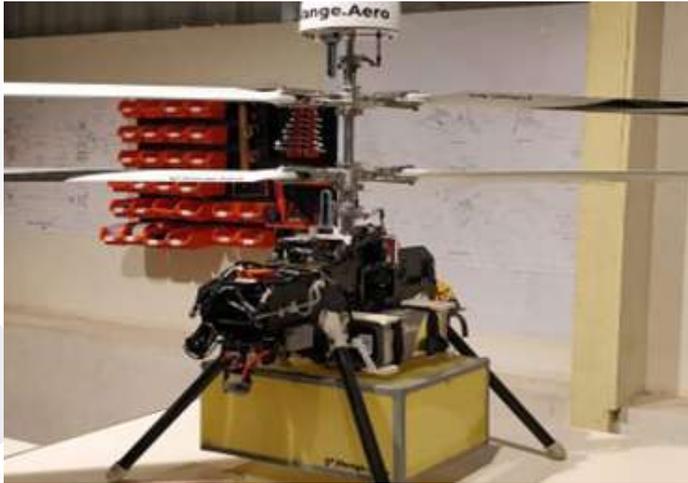
### Problem Addressed:

Cybercrime is increasing at an alarming rate in the entire world. The statistics suggest that 80% of cyberattacks are caused due to human factors (e.g., setting up weak passwords, sharing of passwords, falling prey to phishing attacks etc.). Byteaseal addresses this problem with a unique, first of its kind solution.

### Innovation / Brief of the product:

Byteaseal Biometric ID uses world's most advanced and secure biometric authentication technology in combination with wireless interfaces such as Bluetooth and NFC. Because it is easily portable, users can log into their online accounts with just a tap of fingerprint - eliminating all human vulnerabilities in cybersecurity. The device is also useful for various other authentication purposes like online payments, e-KYC etc.

 TRL Level	: 9
 Patent Filed	: 2
 Funding Raised	: ₹ 100 Lakhs
 Revenue Generated	: ₹ 6.50 Lakhs
 Employment Generated	: 10
 Customer Segment	: B2C, B2B - sectors such as IT/ITES, Financial Services, etc.



## Rangeaero Pvt. Ltd., Bangalore

### Problem Addressed:

Lack of an economically viable transportation for delivering the basic supplies in difficult weather and terrain conditions makes the access to basic supplies difficult. The areas include high altitude areas, areas hit with floods in the monsoon season, hilly areas & desert areas where maintaining the road is not possible in all seasons that leads to longer transit and delivery time.

### Innovation / Brief of the product:

Rangeaero is developing an aerial logistics platform through deployment of autonomous UAVs to optimize the delivery time of shipments. Their coaxial helicopters facilitate 4x faster deliveries of payloads up to 100kg and by leveraging their UAV+Logistics Platform, deliveries to locations that are hard to access/inaccessible through road are enabled.

**WEBSITE** : [www.range.aero](http://www.range.aero)  
**DOMAIN** : Defence  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Arpit Sharma

### TEAM:



Rohit Gupta



TRL Level

: 7



Funding Raised

: ₹ 75 Lakhs



Employment Generated : 7



Customer Segment

: B2B - Defence ,  
Industrial, Aerospace  
segment

INCUBATOR PARTNER: COIMBATORE INNOVATION AND BUSINESS INCUBATOR (FORGE)



## TAYPRO Pvt. Ltd., Mumbai

### Problem Addressed:

Dust and dirt accumulated on the solar module result in a reduction in the output of the solar plant by 5 to 10% depending on the regional soiling intensity. The traditional cleaning method is labor dependent and involves the use of water. As solar power plants are remotely located, water availability is the prime challenge when local residents don't find water for domestic use.

### Innovation / Brief of the product:

TAYPRO is India's leading manufacturer of Automatic and waterless PV cleaning robots. The product expedites the cleaning process and increases energy generation by 5 to 10%. Operation and Maintenance cost of PV plant reduces significantly.

**WEBSITE** : www.taypro.in  
**DOMAIN** : Renewable Energy  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Mr. Abhishek Masurkar

### TEAM:



Yogesh Kudale



Tejas Memane



Akshay Auti



TRL Level

: 9



Patent Filed

: 6-(2 Granted)



Funding Raised

: ₹ 50 Lakhs



Revenue Generated

: ₹ 300 Lakhs



Employment Generated

: 20



Customer Segment

: B2B & B2C(TATA, ACME,  
Ayana, Cleantech,  
Amplus, Galvi)



**WEBSITE** : www.fuselage.co.in  
**DOMAIN** : AgriTech  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Devan Chandrasekharan

**TEAM:**



Devika Chandrasekharan

## Fuselage Innovations Pvt. Ltd., Kochi

### Problem Addressed:

During the interactions with stakeholders in the agriculture ecosystem, they are facing numerous challenges in farming methods. Designed the solution by looking at the post-natural disaster problems in crops, new types of pests as well as farm's unscientific practices. Basically, biotic and abiotic stress is associated with the crops.

### Innovation / Brief of the product:

Fuselage innovations provide agricultural aerial plant survey and aerial plant spraying. The aerial surveillance solution was highly efficient and aided in search and inspection conducted by different Government Departments. Provide customized UAV solutions as per requirements. Technology used is the combinational approach of Unmanned aerial vehicle principles, GIS with respective to agronomy elements.



TRL Level

: 6



Patent Filed

: 1



Funding Raised

: ₹ 95 Lakhs



Revenue Generated

: ₹ 100 Lakhs



Employment Generated

: 10



Customer Segment

B2B (Synthite Industries,  
Kerala Agri University,  
CCCRI, DRDO, ICAR Krishi  
Vigyan Kendra)

INCUBATOR PARTNER: MAKER VILLAGE - IIITMK



## Utopic Tech Pvt. Ltd., Pune

### Problem Addressed:

2 million deaths occur every year due to acute kidney injury. It is Non symptomatic in early stages and if not detected on time, may lead to kidney failure. None of the existing devices for rapid creatinine monitoring are cost effective and majority of them do not meet required calibration to IDMS equivalent standard.

### Innovation / Brief of the product:

Creasens- Point of care creatinine measurement device. It measures kidney function with a finger prick sample, in just a minute drastically reducing time and inconvenience in current methods by orders of magnitude, with assured accuracy.

**WEBSITE** : www.utopictech.com  
**DOMAIN** : Medtech  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Mehul Baldwa

TRL Level	: 5
Patent Filed	: 1
Funding Raised	: ₹ 94 Lakhs
Employment Generated	: 4
Customer Segment	: Diagnostic labs, Government and private hospitals, B2C patients

INCUBATOR PARTNER: ENTREPRENEURSHIP DEVELOPMENT CENTER (VENTURE CENTER)





## Lazy Design Pvt. Ltd., Bangalore

### Problem Addressed:

Wearable and assisted electronics are the future and able to leverage these technologies to create a more productive and connected workplace. Using the power of AI and wearables to improve productivity in workplaces and elsewhere is important.

### Innovation / Brief of the product:

Aina is an AI-powered smart ring designed as a Universal AI Remote control that predicts what you need controlling everything from booking cabs, switching lights, taking calls, controlling meetings, and presentation instantly. Aina makes handling day-to-day tasks up to 700% faster than Smartphone touchscreens.

**WEBSITE** : www.belazy.co  
**DOMAIN** : Electronics  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Apoorv Shankar

TRL Level	: 9
Patent Filed	: 1
Funding Raised	: ₹ 75 Lakhs
Employment Generated	: 28
Customer Segment	: B2C

Acquired by Ultrahuman



## Trestle Labs Pvt. Ltd., Bangalore

### Problem Addressed:

India has 57 million visually impaired people who lack the ability to access printed, handwritten and digital content on their own. The key problem being solved is to make education inclusive and accessible to the visually impaired.

### Innovation / Brief of the product:

Trestle Labs has built Kibo XS multilingual scanning & reading device to listen, translate and digitize hardcopy printed & handwritten content across 60 Global languages; thereby empowering the blind and the visually-impaired community towards inclusive education & employment. Kibo is a device to convert text to speech to empower visually impaired persons to access education. The device is capable of reading all Indian regional languages.

**WEBSITE** : [www.trestlelabs.com](http://www.trestlelabs.com)  
**DOMAIN** : Assistive Technology  
**YEAR OF SUPPORT** : 2018-19

### NAME OF PRAYASEE:



Bonny Dave

### TEAM:



Akshita Sachdeva

	TRL Level	: 9
	Patent Filed	: 1
	Funding Raised	: ₹ 73 Lakhs
	Revenue Generated	: ₹ 105 Lakhs
	Employment Generated	: 9
	Customer Segment	: B2B (IIT Delhi, IIM Ahmedabad, NID Gandhinagar, Nashik Municipal Corporation,)



## SynerSense Pvt. Ltd., Ahmedabad

### Problem Addressed:

Data driven, affordable, autonomous prognosis and performance assessment mechanism or device for orthopedic patients and sports personnel in all types of healthcare settings.

### Innovation / Brief of the product:

SynerSense has developed portable and smart wearable medical device that provides lower limb balance and walking analysis for people with orthopedic and neurological disorders. The device leverages data analytics that assists orthopedists, neurologists, physiotherapists and sports medicine to make clinical assessment decisions accurately and improve the performance to decide on the best treatment and training to be provided in any healthcare settings or indoor/outdoor sports fields.

**WEBSITE** : www.synerSense.com  
**DOMAIN** : MedTech  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Gunjan Patel

TRL Level	: 9
Funding Raised	: ~ ₹ 67.5 Lakhs
Revenue Generated	: ₹ 1.35 Lakhs
Employment Generated	: 6
Customer Segment	: B2B ,B2C

INCUBATOR PARTNER: AHMEDABAD UNIVERSITY SUPPORT FOUNDATION, (VENTURE STUDIO)





## Invoviron Industries Trading Pvt. Ltd., Kanpur

### Problem Addressed:

The team InvoViron is dedicated towards making India's first compostable plastic resin which could be manufactured at bulk and its processing is compatible with the existing infrastructure. The raw material used will be the organic waste of poultry industry which will result in an economically feasible end product.

### Innovation / Brief of the product:

InvoViron uses waste chicken feather from the poultry industry and extracts Keratin from them. The extracted keratin, which is a natural protein, is chemically treated to make the final polymer (KERASTIC). Kerastic is compostable in nature and it biodegrades within 84 days .

**WEBSITE** : NA  
**DOMAIN** : GreenTech  
**YEAR OF SUPPORT** : 2018-19

### NAME OF PRAYASEE:



Sarthak Gupta

### TEAM:



Mohd. Shahid Jamal

TRL Level	: 6
Funding Raised	: ₹ 65 Lakhs
Employment Generated	: 5
Customer Segment	: B2B - Horticulture Department

INCUBATOR PARTNER: STARTUP INCUBATION AND INNOVATION CENTRE, IIT KANPUR



STARTUP  
INCUBATION AND  
INNOVATION  
CENTRE  
IIT KANPUR



**WEBSITE** : [www.bylinmedtech.com](http://www.bylinmedtech.com)  
**DOMAIN** : Medtech  
**YEAR OF SUPPORT** : 2019-20

**NAME OF PRAYASEE:**



Dr Lini Basil

## Bylin Medtech Pvt. Ltd., Trivandrum

### Problem Addressed:

Dry mouth is a debilitating condition experienced by people post radiation & chemotherapy or with autoimmune disorders, severe diabetes mellitus & elderly. They experience difficulty in speech, swallowing, bad breath, multiple bacterial & fungal infections in mouth which affects the general health. Existing solutions contains chemicals or sugar and are not sustainable or cost efficient.

### Innovation / Brief of the product:

A hydrating oral patch which has anti-microbial, wound healing properties that can be kept inside the mouth. Due to the inherent ability of the patch, it absorbs the drinking water taken by the patient and slowly moisturizes the oral cavity. The patch can be replaced at the end of the day. The biomaterials present provides lubricating effect which mimics natural saliva and enhances patient compliance. The patch is free of sugars, chemicals and is totally biodegradable making it more eco-friendly.

TRL Level	: 5
Patent Granted	: 1
Funding Raised	: ₹ 63 Lakhs
Customer Segment	: B2B(Hospitals, doctors, Dental Clinics, Pharma companies)



## Sense It Out Intelligent Solutions Pvt. Ltd., Pune

### Problem Addressed:

Irregular irrigation by farmers leading to reduced yield and heavy water wastage.

### Innovation / Brief of the product:

Product SICCA makes the irrigation management at farms – Smarter, reliable & affordable. It has IoT based sensors help optimize water usage and maximize yield, thus saving upto 80% water.

**WEBSITE** : [www.senseitout.com](http://www.senseitout.com)  
**DOMAIN** : AgriTech  
**YEAR OF SUPPORT** : 2017-18

### NAME OF PRAYASEE:



Jasveer Singh

### TEAM:



Dr. Abhay Hake



Faizan Shaikh



TRL Level

: 9



Funding Raised

: ₹ 60 Lakhs



Revenue Generated

: ₹ 27 Lakhs



Employment Generated

: 7



Customer Segment

: B2B, B2C - Horticulture  
farmers, Vertical poly-  
house farmers

INCUBATOR PARTNER: ENTREPRENEURSHIP DEVELOPMENT CENTER (VENTURE CENTER)





## Aran Tecnovation Pvt. Ltd., Coimbatore

### Problem Addressed:

Use of technology to avoid carrying the keys, real time unauthorized & tampering alerts, security logs, and made the technology possible to make in India for mass production by the Hardware manufactures at competitive rates.

### Innovation / Brief of the product:

Aran application aid user to manage fingerprints configures Wi-Fi credentials and other lock settings. User can set and change impact alert contacts to receive impact alert emergency calls. User can share access of the lock to friends and family in share access features. History logs in application views the lock's histories of fingerprint unlock, Wi-Fi unlock and remote unlock.

**WEBSITE** : www.arantec.app  
**DOMAIN** : Consumer tech  
**YEAR OF SUPPORT** : 2018 -19

**NAME OF PRAYASEE:**



D.Kaushik

TRL Level	: 9
Patent Filed	: 1
Funding Raised	: ₹ 55 Lakhs
Revenue Generated	: ₹ 10 Lakhs
Employment Generated	: 68
Customer Segment	: B2B- Hardware Manufacturers

INCUBATOR PARTNER: TECHNOLOGY BUSINESS INCUBATOR AT KONGU ENGINEERING COLLEGE



## Seismic Hazard & Risk Investigations Pvt. Ltd., Roorkee

### Problem Addressed:

Earthquakes are damaging and can't be predicted and can destroy cities in a few seconds. Further, due to the Himalayas and other seismic active regions, India is very vulnerable to seismic risk. Further, researcher from the world are also expecting a large damaging earthquake in Himalayas, which create an urgent need for disaster risk reduction tool.

### Innovation / Brief of the product:

Developed a low-cost earthquake early warning system (EEW) for India in collaboration with IIT Roorkee which will help in reducing imports from foreign. The device includes sensors, sirens, smartphone app, central processing server and a warning dissemination serve. Currently, also developing AI-based algorithms for earthquake detections.

**WEBSITE** : [www.shriseismic.com](http://www.shriseismic.com)  
**DOMAIN** : Electronics  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Prof. M.L.Sharma

### TEAM:



Govind Rathore

TRL Level	: 7
Patent Filed	: 4
Funding Raised	: ₹ 600 Lakhs
Employment Generated	: 3
Customer Segment	: B2B (NDMA, SDMA, Nuclear Power Plant, Hydropower Plant, Dams)



## inGO Electric Pvt. Ltd., Bangalore

### Problem Addressed:

The age of micro-mobility has changed the way we travel. Modern times require modern solutions. In an age where traffic congestion eats away a major chunk of precious time, inGO's effective micro-mobility solution helps travel anywhere faster, safer & seamlessly.

### Innovation / Brief of the product:

inGO Electric has developed an electric vehicle that folds down into the size of a stroller weighing just 12 kgs. It can go a speed of 25km/h, a range of 25 km/charge which are portable, connected and stylish. inGO's not one, but three smart e-scooters are designed to provide riders with the best experience imaginable- inGO Mini, inGO Flee and inGO Tron.

**WEBSITE** : www.ingoelectric.com  
**DOMAIN** : Electronics  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Nikhil Gonsalves

**TEAM:**



Prasanth Krishna

	TRL Level	: 9
	Patent Filed	: 1
	Funding Raised	: ₹ 40 Lakhs
	Revenue Generated	: ₹ 50 Lakhs
	Employment Generated	: 15
	Customer Segment	: B2C



## Carpro Technologies Pvt. Ltd. , Coimbatore

### Problem Addressed:

In India farmers loses Rs. 30 million worth of fruits and vegetables every year due to inadequate post harvest techniques. Also the firewoods are used for drying . The technology proposed is the innovative dehydrator (machine) and innovative drying technology that dry any kind of agricultural produces like fruits, vegetables, spices, herbs and leaves can be dehydrated in economical and eco-friendly manner.

### Innovation / Brief of the product:

Developed a new innovative electric dryer and a drying technology with high performance standards and work with very low consumption of energy and environment friendly too. It can dry any kind of agricultural produces without any change in nutritional value, color, taste and aroma, can be stored for one year and get the high oil content in low moisture content . The technology reduces the processing cost up to 80% and the processing time 50%.

**WEBSITE** : [www.carprotechnologies.com](http://www.carprotechnologies.com)  
**DOMAIN** : AgriTech  
**YEAR OF SUPPORT** : 2018-19

### NAME OF PRAYASEE:



Uthayakumar K

### TEAM:



Surendran PB



TRL Level

: 9



Patent Filed

: 1



Revenue Generated

: ₹ 80 Lakhs



Employment Generated

: 20



Customer Segment

: B2B - Agricultural  
and Food processing  
industries



**WEBSITE** : www.greentrek.co  
**DOMAIN** : CleanTech  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Sandeep Gupta

## Green Trek Research and Development Pvt. Ltd., Jammu, J & K

### Problem Addressed:

Energy from Waste. The Iron and Steel industry contributes to 3.3 Gt of CO<sub>2</sub> emissions per year. Green House Gases - such as coke oven gas, N<sub>2</sub>O, SO<sub>2</sub>, CO are released. There is heavy energy consumption of 25.32 mtoe ( million tons of oil equivalent ) of crude steel per year.

### Innovation / Brief of the product:

Green Trek recycles steel waste through the process of extractive metallurgy and converts it into pure molten metal using thermal energy (exothermic reaction).The molten metal is suitably alloyed, and various spares are produced depending on the requirements of the customers for multifarious industries, such as cement plants, stone crushers, power plants, etc. This process does not need any electric power and hence can be used in places where the power availability is nil or scarce. Carbon footprints emitted into the atmosphere are minimized by more than 95%. In short, the process does not create pollution.

 <b>TRL Level</b>	: 9
 <b>Funding Raised</b>	: ₹ 27 Lakhs
 <b>Revenue Generated</b>	: ₹ 16 Lakhs
 <b>Employment Generated</b>	: 14
 <b>Customer Segment</b>	: B2B (Rolling Mills, Stone Crushers, Cement Plants)



**WEBSITE** : www.controsense.online  
**DOMAIN** : Industry 4.0  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Raunak Kamat

**TEAM:**



Madhav Badsheshi

## Controsense Pvt. Ltd., Bangalore

### Problem Addressed:

Many Indian companies in the electro-mechanical machines Production want to adopt industry 4.0 solutions to improve their offerings but lack the competency to do so. The adoption of industry 4.0 solutions allows them to expand product featured and Provide a better service with optimized operations . This leads to savings in terms of lesser downtime , more production and lesser manpower requirement.

### Innovation / Brief of the product:

The innovation is a predictive maintenance solution consisting of electronic hardware, dedicated server and dashboard. The hardware is mounted onto the electromechanical machine to be monitored . It consists of sensors that scans the vibration and current spectrum for fault signatures .The data is analyzed on the cloud and results are depicted on the IoT dashboard which helps end user to monitor the machine and see fault predictions within the machine much before the actual fault takes place. This helps the end user in better ERP planning and maintenance scheduling , which leads to increased profits and reduced costs of operation .

TRL Level	: 8
Patent Filed	: 1
Funding Raised	: ₹ 25 Lakhs
Revenue Generated	: ₹ 30 Lakhs
Employment Generated	: 4
Customer Segment	B2B (Pain Kane Group , Electronic Relays India, Government of Goa , Schneider Electric)





## House Of Babas Internet Pvt. Ltd., Gurugram

### Problem Addressed:

Indian fashion ecosystem is the 2nd most waste producing sectors of the economy. Moreover, it takes 5000 liters of water to produce a pair of jeans and t-shirt and a lot of water is used in the washing (using chemical detergents) of these during the lifecycle. Also, billions of clothing waste ends up in landfills, which pollutes all the water bodies around.

### Innovation / Brief of the product:

House Of Babas is a sustainable fashion and lifestyle brand which creates clothing that cares for you and the planet. Developed recycled fabrics which are anti-microbial, stain-repellant and odor free. Hence, these "smart fabrics" only require half the washing cycles as compared to conventional clothing. Moreover, as these are made from recycled cotton, a lot of water is saved because no new cotton needs to be grown.

**WEBSITE** : [www.houseofbabas.com](http://www.houseofbabas.com)  
**DOMAIN** : Consumer Tech  
**YEAR OF SUPPORT** : 2020-21

### NAME OF PRAYASEE:



Shivang Slathia

### TEAM:



Vijay Saran

	TRL Level	: 9
	Funding Raised	: ₹ 25 Lakhs
	Revenue Generated	: ₹ 20 Lakhs
	Employment Generated	: 12
	Customer Segment	: B2C, B2B



## Green Wall Industries, Ambalappad

### Problem Addressed:

Huge cost and time consuming of traditional construction method and Exploitation of natural resources like mining of laterite.

### Innovation / Brief of the product:

Unique and simple method for the assembling of Eco-friendly light weight construction panel. Light weight load bearing wall for construction, Wire lattices oriented to the longitudinal direction can provide ample shear transfer to achieve a high degree of composite fluctual behaviors and also helps panel to continue resisting load.

WEBSITE : NA  
DOMAIN : Buildtech  
YEAR OF SUPPORT : 2019-20

NAME OF PRAYASEE:



Ramesh Chandra babu

TRL Level	: 8
Funding Raised	: ₹ 20 Lakhs
Revenue Generated	: ₹ 3 Lakhs
Employment Generated	: 8
Customer Segment	: B2B ( Kerala State : Nirmithikendra, Lulu mall at PMK,)





## Vital Carbon Pvt. Ltd., Ghaziabad

### Problem Addressed:

Segregation of waste at source is the key reason for low material recovery and pollution. A sustainable waste management infrastructure can be created by proper segregation but humans often mix waste together.

### Innovation / Brief of the product:

The key product offering is a computer vision driven smart bin which sorts trash in 3 categories without human intervention. The smart bin runs on a machine learning model and is capable of classifying waste in upto 7 categories. The in-built IoT system can optimize waste collection operations by monitoring the input waste and fill levels and can be seamlessly replace generic dustbins, currently being deployed in closed public spaces such as malls & stadiums.

**WEBSITE** : www.trashnet.co  
**DOMAIN** : Waste Management  
**YEAR OF SUPPORT** : 2021-22

### NAME OF PRAYASEE:



Shiva Bhaskar

### TEAM:



Achal Kasturia

 TRL Level	: 8
 Patent Filed	: 1
 Funding Raised	: ₹ 20 Lakhs
 Revenue Generated	: ₹ 1.2 Lakhs
 Employment Generated	: 3
 Customer Segment	B2B like Real Estate, Tech Parks, Airports, Stadiums & Malls

INCUBATOR PARTNER: KRISHNAPATH INCUBATION SOCIETY- KIET TBI



**WEBSITE** : [www.desintotech.com](http://www.desintotech.com)  
**DOMAIN** : MedTech  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Don Paul

## Desintox Technologies Pvt. Ltd., Kochi

### Problem Addressed:

Usually transferring patients requires the effort of two or more people. Also, there is a high chance of patients falling down and getting injured during manual transfer. The bystanders may also get health issues like back aches or even spine injuries due to long periods of manual transfers. Caretakers like home maids and home nurses tend to leave these patients easily due to this. The effort is increased while transfer is to complicated surfaces like toilets or vehicles.

### Innovation / Brief of the product:

Transit is a device that makes the transferring of a patient from vehicles, bed, chair, wheelchair, floor, and commode an effortless process. Transit has a sling which can be used to secure the patient. Once the patient is secured the height adjustment system can be used to lift the patient. Then the device can be moved to the destination location, wheels on the Transit allow for smooth movement. A swiveling arm allows the orientation of the patient to be adjusted before placing the patient at the destination.

	<b>TRL Level</b>	<b>: 6</b>
	<b>Patent Filed</b>	<b>: 2</b>
	<b>Funding Raised</b>	<b>: ₹ 16 Lakhs</b>
	<b>Revenue Generated</b>	<b>: ₹ 150 Lakhs</b>
	<b>Employment Generated</b>	<b>: 6</b>
	<b>Customer Segment</b>	<b>B2B (NIPMR, Kerala : District palliative, Alpha palliative Thrissur, Carably solutions, MH.)</b>



## Brainbuds Healthcare Pvt. Ltd., Chennai

### Problem Addressed:

Wheelchair users face a variety of challenges, such as mobility, transportation, comfort taking them on stairs and limitations on the places they can travel if they don't have the right device. Some common difficulties include tight spaces, rough or uneven terrain, and slopes and inclines that can make it easy for the chair to tip.

### Innovation / Brief of the product:

The three-wheel mechanism is the unique essence that gives an ease to the attendees to take the patients on wheelchair easily without lifting. The wheelchair cum stretcher cum staircase climbing mechanism becomes the ideal solution for physically handicapped and bedridden people.

**WEBSITE** : www.brainbudscom.wordpress.com

**DOMAIN** : Healthcare

**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Sabariswaran S

**TEAM:**



Dinesh T

TRL Level	: 8
Patent Filed	: 1
Funding Raised	: ₹ 8.7 Lakhs
Revenue Generated	: ₹ 2.5 Lakhs
Employment Generated	: 11
Customer Segment	: B2B, B2C ( A.C.S Medical College, Clynten Clinic )

INCUBATOR PARTNER: VEL TECH TECHNOLOGY INCUBATOR



HOME ABOUT HOW SHOCK ABSORBERS WORKS CONTACT

### "We Safely Decelerate Moving Masses"



Small Shock Absorbers



Large Shock Absorbers



Hydraulic Dampers



Visco Dampers/Snubbers

### "Our Industry Specific solution"



AGRICULTURE



AUTOMATION



AUTOMOBILE



CEMENT

**WEBSITE** : [www.arcdampers.com](http://www.arcdampers.com)  
**DOMAIN** : Defence/ Manufacturing  
**YEAR OF SUPPORT** : 2020-21

**NAME OF PRAYASEE:**



Rohan Srivastava

**TEAM:**



Ananya Verma

## RAR Engineering Pvt. Ltd., Delhi

### Problem Addressed:

Development of weapon system safety buffers and machine gun soft tripod buffers.

### Innovation / Brief of the product:

Developing advanced motion control shock absorbers and hydraulic recoil buffers for Defence as well as Industrial applications. India's first and only indigenous specialized hydraulic motion control start-up. This custom-engineered product reduces the shock and vibration from the weapon system, provides safety and it eliminates them from damage and noise.

	<b>TRL Level</b>	: 9
	<b>Patent Filed</b>	: 1
	<b>Funding Raised</b>	: ₹ 8 Lakhs
	<b>Revenue Generated</b>	: ₹ 100 Lakhs
	<b>Employment Generated</b>	: 5
	<b>Customer Segment</b>	: B2G and B2B (Defence forces, Tata Motors etc.)

INCUBATOR PARTNER: IIT MANDI CATALYST



## Rapid Solutions Inc., Bangalore

### Problem Addressed:

Tunnel Communication- a tough job eased by the Innovative Product

### Innovation / Brief of the product:

Tunnel communication device, based on Wi-Fi technology with highly secured communication. It allows connecting voice, data, CCTV and IoT connectivity. It can be easily manageable at a place. This rugged outdoor device is Wi-Fi ready for users after tunnel is functional and IoT ready for future use.

**WEBSITE** : [www.rapidsolutions.org.in](http://www.rapidsolutions.org.in)  
**DOMAIN** : IoT  
**YEAR OF SUPPORT** : 2018-19

**NAME OF PRAYASEE:**



Charanvikaramraju

	<b>TRL Level</b>	: 9
	<b>Revenue Generated</b>	: ₹ 75 Lakhs
	<b>Employment Generated</b>	: 15
	<b>Customer Segment</b>	: B2B (M/S IRCON international limited Jammu & Kashmir Rail Project)

INCUBATOR PARTNER: DETI@ACE - TBI





## CBAI Technologies Pvt. Ltd., Hyderabad

### Problem Addressed:

Commonly there are two kinds of drones: a multirotor and a fixed-wing. A multirotor is easy to operate but flying efficiency is less. A fixed-wing is good at efficiency but is hard to take off and land.

In case of medical urgency, a patient suffers because of the time taken to supply medicines or medical equipment.

### Innovation / Brief of the product:

Developing a VTOL (Vertical Take-Off and Landing) hybrid drone that takes off like a multirotor but flies like a fixed-wing, An on-demand 'Drone as a first responder' to carry lifesaving equipment/vaccines/medicines or blood and save lives.

**WEBSITE** : [www.crystalball.ai](http://www.crystalball.ai)  
**DOMAIN** : Mechatronics  
**YEAR OF SUPPORT** : 2021-22

### NAME OF PRAYASEE:



Vidyasagar B

### TEAM:



Sandeep Reddy E



Sairaj B



TRL Level

: 6



Patent Filed

: 1



Funding Raised

: ₹ 50 Lakhs



Employment Generated

: 2



Customer Segment

: B2B (Governments,  
Industry and Hospitals)

INCUBATOR PARTNER: I-TIC FOUNDATION, IIT HYDERABAD



## Photom Technologies Pvt. Ltd., Ahmedabad

### Problem Addressed:

Photom is solving a core problem of the solar energy sector which is lower efficiency due to operation and maintenance. At present to solve this problem, panels are cleaned by labours using water which is not cost and service effectively.

### Innovation / Brief of the product:

This solution is fully automated and can be remotely controlled and monitored. It is performing dry cleaning and is solar-powered, so there is zero-emission.

**WEBSITE** : [www.photomtechnologies.com](http://www.photomtechnologies.com)  
**DOMAIN** : Renewable energy  
**YEAR OF SUPPORT** : 2017-18

**NAME OF PRAYASEE:**



Himmat Singh

TRL Level	: 9
Revenue Generated	: ₹ 22.32 Lakhs
Employment Generated	: 20
Customer Segment	: B2B, B2C (Key customers: Tata Power solar, Jk Lakshmi Cement)



## Mechcreatio Industrial Solutions Pvt. Ltd., Chennai

### Problem Addressed:

Problem of harvesting of root crops, for which seeding machine was developed to seed crops in a systematic manner, that can harvest the root crops mechanically.

### Innovation / Brief of the product:

The innovation was brought about after seeing the difficulty to harvest root crops manually. So in order to harvest the root crops first the seeding machine was developed by which the harvesting machine developed can harvest with ease.

**WEBSITE** : www.rowerindia.com  
**DOMAIN** : AgriTech  
**YEAR OF SUPPORT** : 2017-18

### NAME OF PRAYASEE:



P Avinash

### TEAM:



John George



Loguprasath

TRL Level	: 9
Patent Filed	: 1
Revenue Generated	: ₹ 15 Lakhs
Customer Segment	: B2C and B2B (Biorites, TNAU)

## PRAYAS Centres Names –

Sr.No.	PRAYAS Centre Name	City
1	Chitkara Innovation Incubator Foundation	Chandigarh
2	IIITD Innovation & Incubation Center	Delhi
3	Krishnapath Incubation Society – KIET TBI	Ghaziabad
4	Foundation for Innovation and Research in Science and Technology, IIT Kanpur	Kanpur
5	IIT Mandi Catalyst	Mandi
6	Technology Incubation and Entrepreneurship Development Society (TIDES), IIT Roorkee	Roorkee
7	Shri Mata Vaishno Devi University Technology Business Incubation Center	Katra
8	Incubation Centre IIT Patna	Patna
9	KIIT - Technology Business Incubator	Bhubaneswar
10	Ahmedabad University Support Foundation, (Venture Studio)	Ahmedabad
11	International Centre for Entrepreneurship and Technology (iCreate)	Ahmedabad
12	IIT Gandhinagar Innovation and Entrepreneurship Center	Gandhinagar
13	AIC Banasthali Vidyapith Foundation	Tonk
14	COEP's Bhau Institute of Innovation Entrepreneurship and Leadership	Pune
15	Entrepreneurship Development Center (Venture Center)	Pune
16	Science And Technology Park, Pune	Pune
17	Research Innovation Incubation Design Labs (Riidl)	Mumbai
18	Sardar Patel Technology Business Incubator	Mumbai
19	Society for Innovation and Entrepreneurship (SINE), IIT Bombay	Mumbai
20	Forum for Innovation Incubation Research and Entrepreneurship	Goa
21	Amrita Technology Business Incubator	Kollam
22	Maker Village - IIITMK	Kochi
23	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Technology Business Incubator (SCTIMST - TIMED)	Trivandrum
24	Technopark Technology Business Incubator	Trivandrum
25	Technology Business Incubator, National Institute of Technology Calicut	Calicut

<b>Sr.No.</b>	<b>PRAYAS Centre Name</b>	<b>City</b>
26	Society for Innovation and Development - IISc Bangalore	Bangalore
27	Dayananda Sagar Entrepreneurship Research and Incubation Foundation (DERBI)	Bangalore
28	IKP Knowledge Park Engineering Design and Entrepreneurship Network (IKP EDEN)	Bangalore
29	Foundation for Sandboxstartup Initiatives	Hubli
30	Manipal Universal Technology Business Incubator	Manipal
31	SJCE-Science & Technology Entrepreneurs Park	Mysore
32	PSG-Science and Technology Entrepreneurial Park (PSG - STEP)	Coimbatore
33	Coimbatore Innovation and Business Incubator (FORGE)	Coimbatore
34	Healthcare Technology Innovation Centre, IIT Madras	Chennai
35	Vel Tech Technology Incubator	Chennai
36	Technology Business Incubator at Kongu Engineering College	Erode
37	Vellore Institute of Technology – Technology Business Incubator	Vellore
38	Development of Entrepreneurship Through Incubation (DETI@ACE)	Hosur
39	MaDeIT Innovation Foundation	Kancheepuram
40	Foundation for Innovation & Research at SASTRA Technology Business Incubator	Thanjavur
41	International Institute of Information Technology- Hyderabad Foundation (IIITH)	Hyderabad
42	Association for Innovation Development of Entrepreneurship in Agriculture (a-IDEA)	Hyderabad
43	i-TIC Foundation, IIT Hyderabad	Hyderabad
44	SR Foundation	Warangal

# Program Management Unit NIDHI PRAYAS

Society for Innovation & Entrepreneurship



<https://www.nidhi-prayas.org>

<https://www.sineitb.org>

