

**TECHNOLOGY BUSINESS INCUBATOR @ KONGU ENGINEERING COLLEGE**  
PERUNDURAI- 638 060, ERODE

**NIDHI – PRAYAS**

(National Initiative for **D**eveloping and **H**arnessing Innovation - **P**romotion and **A**cceleration of **Y**oung and **A**spiring innovators and start-ups)

**Objectives**

To help young and aspiring innovators and to provide support/funding from **idea to prototype**.

**Funding Limit & Mode**

Upto **Rs.10 lakh** per project/idea as **grant** for ideas into prototype in a **duration of 18 months**

**Eligibility**

- A. **Individual innovator**: Indian Citizen at least 18 years of age on 1st of August, 2016.
- B. **Team of individual innovator**: There has to be an **agreement among the team** about the **lead applicant** and the **lead applicant have to apply**. The **financial support** (after the selection process) will be **given to the lead applicant on behalf of the team**.
- C. **Existing incubatee** of a PRAYAS centre:-
  - i. The company **is less than 2 years** and wants to **develop the prototype for a new product**, for which they may have **not received similar kind of support**.
  - ii. Company **should have no significant revenue** at the **time of application**.

**Areas of Support**

The **priority areas** for supporting innovations under NIDHI PRAYAS program are **manufacturing, agriculture, healthcare, clean-tech, energy, water and Internet of Things (IOT) and other technology areas**.

**Beneficiaries**

S.No	Name of the Innovators	Title of the Project	Amount Sanctioned	Status
1.	Santos Kelwin Melshack	GPS Guided Impact Resistant Multipurpose FPV Drone.	Rs.8.00 lakh	In Progress
2.	Nidhin Viswanathan	<b>Rust Shield</b> - A passive sacrificial anode contains four basic components: Sacrificial metal alloy (With high electron density & potential volt), High Conductive & Corrosive Resistant (HCCR) core with external connectors, Alkaline-activated enclosure (no negative effects on rebar), and porous mortar cover. All components are made together into an easy-to-install product,	Rs.6.25 lakh	In Progress

3.	Mr.Suganth M (Attox Research Laboratories Pvt Ltd)	<b>Micro+</b> - An innovative concept device used to measure specific mineral concentration at the cellular level in animals (livestock care) using chemosensory with integrated Nano-electrode.	Rs.7.00 lakh	In Progress
4.	Mr.Tanush Prem (Mushloop Pvt Ltd)	<b>Mushloop</b> - a sustainable packaging startup that replaces styrofoam and single-use plastics with mycelium and agricultural waste.	Rs.9.25 lakh	In Progress
5.	Mr.Arun Natesan (Hivericks Technologies Pvt. Ltd)	<b>Xoptimus</b> - a versatile Type-C charger designed for laptops and smartphones, offering efficient charging for both devices in a single, convenient solution.	Rs.8.75 lakh	In Progress
6.	Nelson Prathish S	<b>Wood Joiner</b> - Table top numerical controlled machine which carves the wood mounted on a 3-axis CNC setup, which will have an inbuilt program of the male and female parts of the joint.	Rs.8.25 lakh	In Progress
7.	Mr.Reginald C (Reude Tech)	<b>Stingray</b> - a standardized single drone platform offers multiple payload utilities. Sustainable drone ecosystem which is cost effective, low noise level and 70% of parts made in India and serviceable.	Rs.8.75 lakh	In Progress
8.	Mr.Ariharan T (Vugha Technological Solutions Pvt Ltd)	<b>Ayani Plus</b> - An IoT enabled contactless water level Measurement device (Specifically for 20L packaged drinking water). Device can sense the stock & water level and place orders automatically.	Rs.5.00 lakh	In Progress
9.	Mr.Gokul N A (GravityX Technologies Pvt.Ltd)	<b>Concrete 3D Printer</b> - Hang based 3D Printer to print house or building using cementitious materials.	Rs.9.50 lakh	In Progress
10.	Mr.Sarangan.T (Green Collar AgriTech Solutions Pvt.Ltd)	<b>TARAM</b> - Developing a prototype of a Type 4 cylinder, a safe and efficient high-pressure vessel for hydrogen storage.	Rs.9.75 lakh	In Progress

11.	Mrs.Ashwini Ajeet (GudLyf Mobility Pvt Ltd)	<b>Type IV Cylinder for Hydrogen Storage</b> - Developing a prototype of a Type 4 cylinder, a safe and efficient high-pressure vessel for hydrogen storage.	Rs.9.75 lakh	In Progress
12.	Mr.S.Velayutham (TamiraBot Advanced Engineering Pvt Ltd)	<b>Electric Vehicle Charging Connector</b> - Development & Testing with CE & UL 94 certification for TYPE 2 (Single phase 32A & three phase 32A) EV Plug connector which is widely used in domestic charging of Electric Vehicles.	Rs.9.75 lakh	In Progress
13.	Ms.Prateeka Haldorai (Progen Foods Pvt. Ltd)	<b>Indigenous Plant-Based Protein Powder</b> - is deriving from locally grown crops (a combination of millets, rice, lentils and seeds) that meet the daily protein needs as recommended by the ICMR and the FSSAI. Apart from being non water intensive, they are hypo-allergen and lactose and gluten free.	Rs.6.25 lakh	Completed
14.	Mr.G.Sriram (Vesrad Technologies Pvt. Ltd)	<b>Development of Hydrogen Burner for Industrial Metal Melting Furnaces</b> - An industrial burner kit of 300 kW classes which can be retrofitted by removing the existing oil burners that are being used in the Aluminium die casting melting furnaces.	Rs.7.50 lakh	Completed
15.	Mr.A.Boobalan (DBS Tech Solutions)	<b>IoT Based Mechano - Electronic Warping (Automated Warping)</b> - The existing warping problems can be identified by using sensors at the creels to find the thread damage, counters to provide the meters of thread woven into beam, Variable Frequency Drive (VFD) Motor to stop the motor immediately during thread damage. Design settings for different pattern of beams can be configured from any place / any time using IoT.	Rs.8.00 lakh	Completed
16.	Mr.S.Shrinivasan (Harvtech LLP)	<b>Smart Electrical Tractor</b> - Modernization of Traditional Diesel Tractor to Smart Electrical Tractor to adopt Automation Farming.	Rs.9.75 lakh	Completed

17.	Mr.S.Sathesh (GSR Tech Solutions)	<b>Shuttle Changer</b> - IoT Device For Smart Power Looms	Rs.8.00 lakh	Completed
18.	Mr.Jacob Thekkekara (Sugrah Mobility Pvt. Ltd)	<b>Sugrah S-Series</b> - Solar Powered Pedal Assisted Electric Tricycle	Rs.9.75 lakh	Completed
19.	Mr.Varshan Mohan (Pristyn Automations Pvt. Ltd)	<b>DUST IT</b> - Autonomous Waterless Solar Panel Cleaning Robot	Rs.9.75 lakh	Completed
20.	Ms.R.Harini (Nutrigenetics Life Science Pvt. Ltd)	<b>Nectar Pouch</b> - Design and development of Vacuum trapping collection pouch to collect the Unfermented Nectar from the Palmyra Palm.	Rs.9.50 lakh	Completed
21.	Mr.G.Parthiban (Techlair Automation)	<b>Vehicle for Spraying of Coconut, Arecanut and Other Perennial Trees</b> - A vehicle for spraying the medicines and pesticides for crops from ground level up to 70 feet height. Precise electronic control of the spraying mechanism with maximum time of 10 seconds per tree.	Rs.10.00 lakh	Completed
22.	Mr.R.Manoharan (Sun Crown Mechtronic Solutions)	<b>Manual Micro Drill cum Threading Machine.</b>	Rs.5.00 lakh	Completed
23.	Ms.K.Anitha (Insta Innovator)	<b>Instant GPFR Building Panel</b> - Geopolymer Prefabricated Fiber Reinforced Hollow core Wall Panel (GPFR) - Fly ash is the major raw material, using pet waste water bottles as fibers to make the product. Hollow core building panel act as a multi-function like wall, column, beam, slab, etc.	Rs.6.50 lakh	Completed
24.	Mr.J.Karthik (FoodTechnics Pvt. Ltd)	<b>Flabrr: The Compact, Automatic Flatbread Robot</b> - Machine capable of making dough kneading, dough ball making, pressing flat to required thickness and roasting on both sides to edible flat bread in touch of a button, thus helping Restaurants, caterers to prepare roti's/ flatbread in more simpler way for their business.	Rs.10.00 lakh	Completed

25.	Ms.Nimisha Sharma	<b>Aluminium-Air Battery</b> - An affordable, Aluminium-Air battery system (a novel non-aqueous electrolyte and air-electrodes with functional oxygen-electrocatalysts aided by pressurization).	Rs.9.00 lakh	Completed
26.	Mr.Swapnil Ajit Bukshete ( <i>Queliz Life Tech Pvt. Ltd</i> )	<b>Hand Rehabilitation Device for Burn Patient</b> - A cost effective electronically operated device that provides active and passive hand rehabilitation therapy to burn injury.	Rs.9.00 lakh	Completed
27.	Mr.Shubham Sharma ( <i>Beliveinn Tech Pvt. Ltd</i> )	<b>Solar and Wind Energy Generator &amp; Air Purification System (SWEAP)</b> - A unique hybrid device for renewable energy generation with air purifier to use in domestic, commercial and rural areas.	Rs.8.00 lakh	Completed
28.	Dr.Augustine R ( <i>Bivet Technosciences (OPC) Pvt. Ltd</i> )	<b>Moringa Oleifera and Citrus Aurantifolia extracts as Natural Food Preservatives &amp; Nutrient Supplements</b> - The focus is on crude extract of Moringa leaf in combination with Citrus Aurantifolia (Lemon) extract at different concentration on antibacterial activity in certain foods (Dhal, Gravy, Batter). This combined crude extracts of Moringa and lemon will be optimized to serve as an alternate food preservative in foods and also to act as a good source of nutrient supplements.	Rs.8.50 lakh	Completed
29.	Mr.Shanmuga Vadivel S ( <i>lcOnT Automations</i> )	<b>Portable Milk Dispenser</b> - A device that solves by integrating different systems into a portable milk dispenser which can be retrofitted in any existing milk can. It can deliver required quantity and send SMS to the vendor / customers about their sales or purchase.	Rs.3.50 lakh	Completed
30.	Mr.Radhakrishnan P J ( <i>Rekindle Automations Pvt. Ltd</i> )	<b>A Smart Intravenous Dripper System</b> - Device to Centralized Monitoring and Automatic Stopping of Intravenous Fluid	Rs.9.00 lakh	Completed

31.	Mr.J.K Ajesh (Tecyon Innovations Pvt. Ltd)	<b>SOLO mPowerDrive (A Power-Assist Device for Manual Wheelchair)</b> - Wheelchair power assist device to convert any normal wheelchair into power wheelchair which can eventually help the user to travel independently without any assistance.	Rs.7.70 lakh	Completed
32.	Mr.Abhay Swamy (S&S Metal 3D Printing Technologies Pvt. Ltd)	<b>Rapid Adaptive Manufacturing (RAM)</b> - Metal 3D Printing with a hybrid approach. Incorporating Additive, Subtractive and 3D Scanning into one system to accommodate Mass Customization with Mass Production.	Rs.9.50 lakh	Completed
33.	Ms.Duvvuru Varshitha (Vivalyf Innovations Pvt. Ltd)	<b>GlucoviVa – Non Invasive Glucometer</b> - A wearable non-invasive device which can determine the glucose levels in blood quickly and accurately without pricking or invading.	Rs.7.50 lakh	Completed
34.	Mr.Smit Rambhiya (Oxyheal Pvt. Ltd)	<b>OxyHeal</b> – Localized Hyperbaric Oxygen Therapy for Chronic Wounds - Pressure and flow controller for oxygen which is extremely compact and tackles the issues with the current technologies like pressure hysteresis and droop due to change in inlet pressure as the oxygen in the cylinder depletes.	Rs.9.30 lakh	Completed
35.	Mr.M.S.Vijayakomagan (Kardle Industries Pvt. Ltd)	<b>BIOTORR – The Next Generation Bioreactor</b> - Bioreactor system with advanced Sophisticated features such as Auto calibration, Inbuilt sterilization, Live Monitoring, Optical Density measuring, Culture growth control and Cloud integration.	Rs.9.00 lakh	Completed
36.	Mr.K.P.Rajaganesh (KG Automation)	<b>Semi-Automated Handling of Steering Knuckles for Hardness Testing</b> - Using image processing technique that provides accurate hardness value, inventory of hardness ledgers and consistency in the measuring process.	Rs.10.00 lakh	Completed
37.	Mr.M.Arunkumar (MAK Scales)	<b>Design and Development of Multi-Functional Geometric Tools</b> - A multi-model and multifunctional ruler and protractor tool with the ability to form and scale a near infinite number of geometric shapes.	Rs.4.00 lakh	Completed

38.	Mr.M.Kavin Kishore	<b>Lapwing (Wild Animal Monitoring and Warning System)</b> - The wild animal (elephant) activity and intrusion at the fringes of the forest is to be tracked and provide warning alerts to the responsible forest authority and neighboring locals.	Rs.7.00 lakh	Completed
39.	Ms.Pavithra Naveen (NGV Natural Industry Pvt. Ltd)	<b>Machinery for preparing 'Ready to cook Banana Stem'</b> - Complete machinery for 'Ready to Cook' Banana stem. By feeding banana stem core and get ready to cook sliced, diced and fiber removed banana stem.	Rs.5.30 lakh	Completed
40.	Mr.V.Manikandan (Iotism Technologies Pvt. Ltd)	<b>REFIL</b> - Grocery order automation using smart containers.	Rs.10.00 lakh	Completed
41.	Mr.R.Karthick (Taark Equipments Pvt. Ltd)	<b>Harvester and Land Preparator (Agrovester)</b> - A tractor operated root crop harvester and land preparatory machine.	Rs.8.50 lakh	Completed
42.	Mr.D.Kaushik (Aran Tecnovation Pvt. Ltd)	<b>iKey</b> - Bluetooth, Wifi & GSM enabled Biometric pad lock with Mobile application for control from remote location.	Rs.9.70 lakh	Completed
43.	Mr.T.Abuthahir (Lepocube Assistech OPC Ltd)	<b>i-ADVI</b> - An intelligent navigation glass for visually challenged people.	Rs.5.23 lakh	Completed
44.	Mr. N.Sunil Vignesh (Lspot Preventech)	<b>L-SPoT</b> - A wearable IoT device with app used to alert and track the improper sitting position of the person.	Rs.9.40 lakh	Completed
45.	Mr.A.P.Sasikumar (Agnicart)	<b>Multipurpose Bullock Drawn Cultivator</b> - Designing a bullock drawn cultivator for plowing, bed making, weeding and disc plow which can be affordable for small and medium farmers.	Rs.6.00 lakh	Completed
46.	Mr.N.Santhosh (Dheeran Technologies and Research Center)	<b>Tender Coconut Vending Machine</b> - Automated Tender Coconut Vending Machine with integrated IoT for remote & real time monitoring.	Rs.5.60 lakh	Completed
47.	Mr.A.G.Padmanaban (Afford Social Tech Pvt. Ltd)	<b>Low cost Solar Outdoor Pollution &amp; Environmental monitoring system</b> - Continuous real-time monitoring of indoor and outdoor air pollution using low-cost sensors.	Rs.10.00 lakh	Completed

48.	Mr.Shriram Thirumalai (High Performance Engineering and Research Pvt. Ltd)	<b>UNO - an Automotive Smart Device for Fuel Efficiency</b> - Hyper UNO is an add-on smart device which tries to help drivers adjust their driving style to maximize fuel efficiency, through real-time auditory instructions, customize their vehicle and its engine performance to suit their needs.	Rs.9.72 lakh	Completed
49.	Ms. M. Deepa	<b>WaterMag - Hybrid Atmospheric Water Generator</b> aims at harnessing potable water from atmospheric air using efficient desiccant absorption and heat separation methods using renewable resource	Rs.9.80 lakh	Completed
50.	Mr.M.Puviyarasan (Dynatral Tech Pvt. Ltd)	<b>Industry 4.0: Live and Remote Monitoring (Shop Floor)</b> - Live and Remote Monitoring IIoT Device for reporting of real-time shop floor data using mobile, modular and highly compatible IOT hardware system suitable for production environment	Rs.9.75 lakh	Completed
51.	Ms.D.Kalaiselvi	<b>SMART Battery Water Refill Alarm</b> IoT based smart battery water refill alarm device. Using the IoT device the data's may be viewed / monitored in mobile app, web app in a dashboard for effective maintenance of battery.	Rs.9.60 lakh	Completed
52.	Mr. M. Pradeep (Scorpion)	<b>Developing Semi-Automatic Airless Paint Sprayer</b> - is to be designed to eliminate shortage of painters, increase quality of painting the building at any atmospheric conditions with high surface coverage.	Rs.9.50 lakh	Completed
53.	Mr.Suraj Mohan	<b>Wearable Diagnostic Tool</b> is a wearable device to help medical practitioners simultaneously measure various physical health parameters with the ability to store and transfer health data.	Rs.5.55 lakh	Completed
54.	Mr.C.Karthikeyan (Magnic Technologies Pvt. Ltd)	<b>Ferrous Particle Impurity Detection Machines for Gold Jewelry</b> which helps Jewel Manufacturing Companies to automate their testing of jewelry with 80% Less Man-power and better Accuracy to achieve 100% Quality.	Rs.9.85 lakh	Completed
<b>Total</b>			<b>4.50 Crore</b>	