

University : Karunya Institute of Technology and Sciences  
 Country : INDIA  
 Web Address : www.karunya.edu

## [6] Education & Research

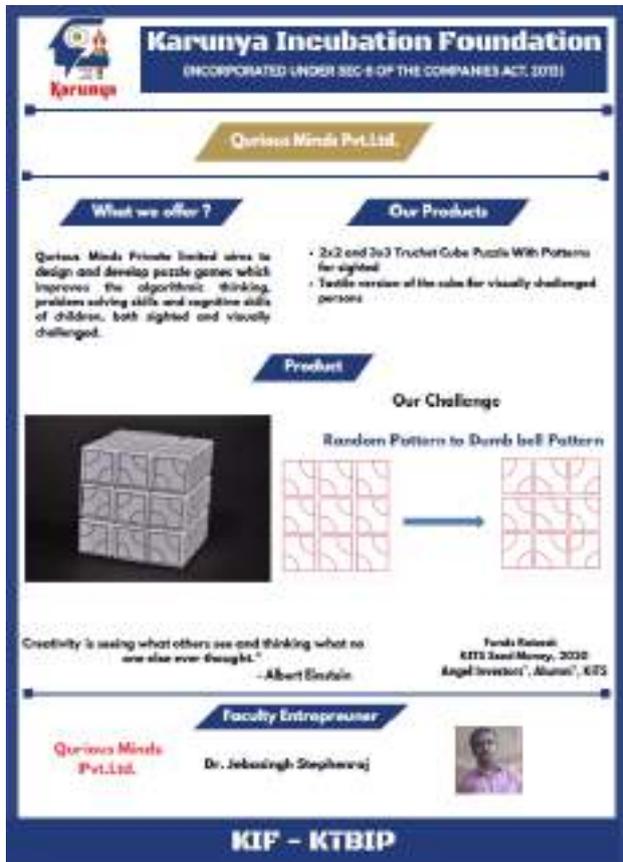
### [16] Number of sustainability-related startups

**SAMPLE**

No.	Information
1	<p> <b>Startup name:</b> Four I Tech R&amp;D solutions pvt ltd  <b>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):</b> ED  <b>URL:</b> <a href="https://www.tofler.in/four-i-tech-r-and-d-solutions-private-limited/company/U32308TZ2022PTC039086">https://www.tofler.in/four-i-tech-r-and-d-solutions-private-limited/company/U32308TZ2022PTC039086</a>  <b>Description:</b> Four I Tech R&amp;D Solutions Private Limited is an unlisted private company incorporated on 01 June, 2022. It is classified as a private limited company and is located in , Tamil Nadu. It's authorized share capital is INR 1.00 lac and the total paid-up capital is INR 1.00 lac.  <b>Photos:</b> </p> 
2	<p> <b>Startup name:</b> Quirious Minds Private Limited  <b>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):</b> ED                 </p>

**URL:** NIL ([https://drive.google.com/file/d/1157xZr73PNL0bgBidE-FTNeJaMd4ADP/view?usp=drive\\_link](https://drive.google.com/file/d/1157xZr73PNL0bgBidE-FTNeJaMd4ADP/view?usp=drive_link))  
**Description:** Quirous Minds Private Limited is registered under UDYAM on 25/08/2022. It is classified as a private limited company and is located in , Tamil Nadu. It's authorized share capital is INR 1.00 lac.

**Photos:**



3

**Startup name:** Flavingred Products & Services Private Limited  
**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ED  
**URL:** <https://www.flavingred.com/>  
**Description:** FlavingredProducts and Services Private Limited a DPIIT recognized startup, is an outcome of five years of brain storming, a seedling aspiring to blossom into a tree where the branches symbolize the domains we are engaged in, beholding the principles of Nature. We intent to extract, add value to the chemistries from Nature, with the core objective to enrich communities we work with and shareholders, while giving back to Nature. Incorporated in March 2021, FlavingredProducts started as a services company assisting small and medium scale companies with product development, product re-engineering, process, supply chain management and Go To Market strategies. Some of our clients are from Food processing, Pharmaceuticals, Dental consumables, Animal nutrition and Materials science industry. Like other startups, we work remotely from locations across India with Mumbai being our Head Office and a shared Lab at Coimbatore where all the innovations and development take place. In March 2023, FlavingredProducts pivoted towards becoming a product only and brand driven company bringing quality products to the consumer from our Plant based products and ingredients portfolio.

**Photos:**



Chicken Patty



Minced Meat (Keema)



Gulabti Kebab



Sausage

4

**Startup name:** Abaya Security

**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ED

**URL:**

[https://drive.google.com/file/d/10w6eFZH3Qye97PccXZcUxYh7WpV7btr/view?usp=drive\\_link](https://drive.google.com/file/d/10w6eFZH3Qye97PccXZcUxYh7WpV7btr/view?usp=drive_link)

**Description:** Cybersecurity, our experts can help you to build your Cybersecurity programs, transform and manage your appsec program, scale your security workforce with our Security Champions Program. With our end to end cybersecurity assessments and on demand services all your cyber security needs are covered and addressed at any scale and any phase.

**Product Highlights**

1. Detect any type of intrusions in farming lands.
2. Detect any attempt to cut, lift, crawl under, climb over a fence or detected area.
3. Fiber optic technology offers immunity from lightening problems or from high EMI/RFI environmental conditions.

**Methodology**

The methodology diagram shows a PD-20K Alarm Processing Unit connected to a Laser. The Laser is linked via Inertive Lead to a Feedthrough Coupler. The Feedthrough Coupler is connected to a Sensing Cable (Deployed in the protected zone). The Sensing Cable is also connected to another Feedthrough Coupler, which is linked via Inertive Lead to a Digital Signal Processor. The Digital Signal Processor is connected to a High-Output PD-20K, which is linked via Inertive Lead to an Alarm Relay Output. The Alarm Relay Output has an Alarm Output and a Fault Normally Open Normally Closed output.

**Product Outcome**

For small-scale farmers the cost of optical fencing and maintenance is low and affordable.

**Target customers**

Land owners and Farmers

1. Unauthorized entry can be Prevented.
2. Utilization of Modern Optical Technology
3. Integrated with intelligent System

**Product**

Photos:

5

**Startup name:** Refuah Herbals

**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ED

**URL:** [https://drive.google.com/file/d/1nwz2dnShH4Ga2rBdFoY0BPfpdE1UdtG6/view?usp=drive\\_link](https://drive.google.com/file/d/1nwz2dnShH4Ga2rBdFoY0BPfpdE1UdtG6/view?usp=drive_link)

**Description:** Traditional Herbal oil for pain relief Testing, validation and marketing.



Photos:

6

**Startup name:** M/s Indriyam Biologics

**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ED

**URL:** <https://www.indriyambionics.com/>

**Description:** Indriyam Biologics Pvt. Ltd. is a Department of Scientific & Industrial Research (DSIR), Govt. of India certified bio-medical firm in India and we are extremely proud to articulate that ours is the only Biotech startup working in diagnostics and therapeutics of snake envenomation in India. As a research-led biotechnology firm, we have set 'Snake Envenomation' as our priority area in which we want to build our signature, lead and be accountable for change. Our Past, Current & Future forays in domestic & global arena are guided by a vision of "Quality life for snake bite victims". At Indriyam R&D, we are focusing to revolutionize antivenom production by enhancing the scientific knowledge and incorporating novel technological protocols to make products better, safer and economic.



**Karunya Incubation Foundation**  
(INCORPORATED UNDER SEC-8 OF THE COMPANIES ACT, 2013)

**Indriyam Biologics**

**VISION**  
To deliver effective, safe, and affordable cutting edge solutions in health care & bio-energy sectors to improve and save the lives of billions in developing and under developed nations.

**MISSION**  
To address the health care and wellness needs of people by being a front-runner in research and development of innovative bio-therapeutics. Also be a partner in environmental protection by ensuring sustainable energy solutions for the future generations.

**INDHAN**  
Fuel a revolution in converting OIL WASTE TO WEALTH

**V-SENS**  
SnakeHub is an Android App developed by team Indriyam as our social initiative

**Snake HUB**

**Highlights**

**Industry Entrepreneur**  
**Dr.Dileep Kumar R**

**indriyam**

**KIP - KTBIP**

Photos:

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**Startup name:** M/s Birchwood Pets  
**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ED  
**URL:** <https://connect2india.com/BIRCHWOOD-PETS-LLP/5638146>  
**Description:** **Birchwood Pets Llp** is a limited liability partnership limited company based in City, India and it was incorporated officially on 27/03/2019. The LLP Identification Number (LLPIN) of this company as per the official records is AAO-6622 and its total obligation of contribution is Rs. 100000. Its email address is desouza.rodney@gmail.com and its registered office address is 203, RAJA INDUSTRIAL ESTATE PK ROAD, MULUND WEST MUMBAI Mumbai ,City,Maharashtra,India,400080.



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**BIRCHWOOD PETS LLP**

**VISION**  
To be the World's Most Pet Centric Pet Food Company

**MISSION**  
Helping every Pet Parent be the Best through Quality Nutrition.

**PROJECT**  
Minimally Processed Human Grade Dog Food

**HIGHLIGHTS**

- Selected under RKVY-RAFTAAR scheme, Samriddhi, conducted by the ICAR-Indian Veterinary Research Institute, Bareilly and Ministry of Agriculture and Farmers Welfare.
- Startup India : DIPP Recognised

**Industry Entrepreneurs**

Rodney Dsouza

Bala Muruga Prabhu

Varoon Damodaran

**KIF - KTBIP**

Photos:

8

**Startup name:** M/s Mapusoft Technologies

**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED):** ED

**URL:** <https://mapusoft.com/>

**Description:**

**Photos:**

**MAPUSOFT**

We Deliver the Most Effective Solutions

- OS Changer
- BIOS Simulator
- OS Automator
- Aids to OC - DIMM Cell
- Aids to Java CHMOCR
- OS Version Upgrd
- Application OS Profiler
- Linux CR
- Programming Language Changer
- Cross OS Development Platform
- Code Documentation Tools
- Product Solution Brochure

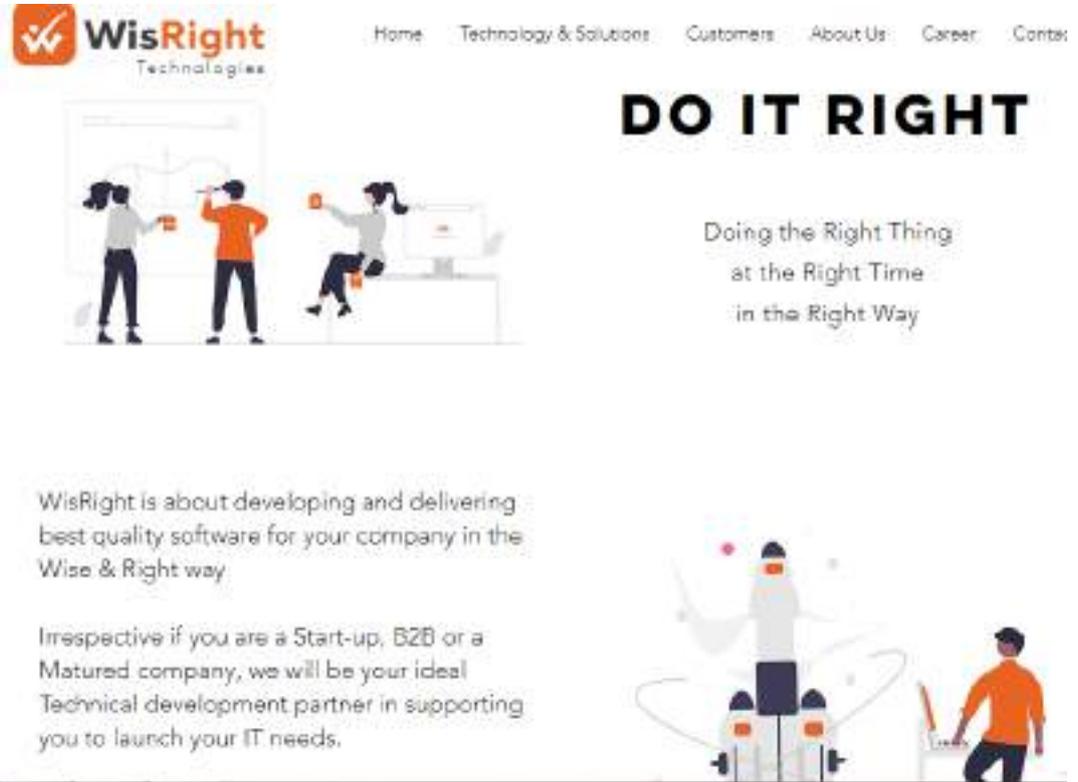
**OSCHANGER**

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**Startup name:** M/s. WisRight Tech Private Limited

**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ED**  
**URL:** <https://www.wisright.com/>

**Description:** A multi-cultural IT development company with offices in India and Sweden; with an objective of providing the Right Solutions, at the Right Time through the Right Way. Being in the "IT & Development" domain since 2001, our focus from the start has been towards Scandinavian markets. After two decades; we have rebranded with a new aspiration to expand into other countries with a wider tech scope and service offerings.



**Photos:** \_\_\_\_\_

10

**Startup name:**  
**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ED**  
**URL:** <https://www.tofler.in/truleaf-foods-private-limited/company/U15490TZ2022PTC040089>

**Description:** Truleaf Foods Private Limited is an unlisted private company incorporated on 11 October, 2022. It is classified as a private limited company and is located in , Tamil Nadu. It's authorized share capital is INR 2.00 lac and the total paid-up capital is INR 1.50 lac. The current status of Truleaf Foods Private Limited is - Active.

Details of the last annual general meeting of Truleaf Foods Private Limited are not available. The company is yet to submit its first full-year financial statements to the registrar. Truleaf Foods Private Limited has three directors - Jayaraj Jerosebernal, Sathiyaraj Johnwesley, and others. The Corporate Identification Number (CIN) of Truleaf Foods Private Limited is U15490TZ2022PTC040089. The registered office of Truleaf Foods Private Limited is at 1a-1b Neem Square, Krg Nagar Main Street, Ganapathy, Coimbatore Coimbatore , Tamil Nadu.

**Photos:** NIL

11

**Startup name:** Mayim Chayim  
**Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ED**  
**URL:** [https://drive.google.com/file/d/1GfOtMMdI3FavR9vm4yFmJUWkatXICPAU/view?usp=drive\\_link](https://drive.google.com/file/d/1GfOtMMdI3FavR9vm4yFmJUWkatXICPAU/view?usp=drive_link)  
**Description:** Treatment of textile dyeing effluent from small scale industries



**Karunya Incubation Foundation**  
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**Biochar from Agricultural Residue**

**Methodology**

- Preparation of Biochar from Sugarcane Bagasse, Sugarcane Coir Pith, Corn cobs, Coconut shell, Wastage and Phenols by using Pyrolysis
- Characterization Biochar (ash content, volatile matter, water holding capacity, nitrogen content, DBP and PPM)
- Preparation of Biochar incorporated alginate beads and evaluation of their performance in treatment of textile dye effluent.

**Highlights**

**Outcome**

**DBP REMOVAL EFFICIENCY**

Time to Removal Efficiency

Time (hours)	Sugarcane Bagasse	Sugarcane Coir Pith	Coconut Shell	Corn Cob
1	~80	~20	~10	~10
10	~90	~30	~20	~20
20	~95	~40	~30	~30
30	~98	~50	~40	~40
40	~99	~60	~50	~50
50	~100	~70	~60	~60

**Water Holding Capacity (%)**

Biochar Type	Water Holding Capacity (%)
Coconut shell	15
Sugarcane Bagasse	25
Sugarcane Coir	30
Corn Cob	30

**Faculty Entrepreneurs**

**Biochar**

- Dr. P. Jagdishbabu
- Dr. C. Rajeswaram
- Dr. Indira
- Dr. Kumar Jagdish
- Dr. Aruna

**KIP - KTBP**

Photos: