Maker Village

Incubation Facilities

03 December 2021
Agend

a. Overview

• Incubation

• Facilities
Overview – Background

Maker Village Background

» India’s largest electronics hardware incubator initiated by MeitY, hosted by DUK/IITMk & supported by Kerala Startup Mission (KSUM)

» Started active operations in 2017 with a total outlay of ₹51 Cr

» New building and expanded facilities inaugurated in January 2019 with incubation space of 25,000 sqft
Overview – Mission

Mission

To create a sustainable hardware ecosystem that will enable startups & entrepreneurs to tinker, innovate, and build world-class products elevating India to the forefront of innovation in the electronics space.
Overview – Startups

» Number of current startups: 68 (total of 130 since inception)

» Stages: Seed – 16, Early – 35, Later – 17

» Sectors:

- IoT
- Robotics
- EV & Auto
- AI
- Healthcare
- Agritech
- Edtech
- Media
- Drones
- Radio Comm.
- Biotech
- Green Energy
Overview – Startups Showcase

**EYEROV:** India’s 1st commercial underwater drone

**NYOKAS:** Smart textile to monitor vital parameters of wearer

**GENROBOTICS:** World’s 1st robotic manhole scavenger

**EVELABS:** Portable connected infusion monitor and controller

**AI DRONE:** Heavy lift drone capable of payloads up to 100 kgs

**BAGMO:** Blood bag monitoring and management system
Overview – Government Programs

- Government of India
  Department of Science & Technology
  Ministry of Science & Technology

- Ministry of MSME, Govt. of India
  MSME INCUBATOR SCHEME

- Ministry of Electronics and Information Technology
  Government of India

- MEITY STARTUP HUB
  TIDE 2.0

- Sparsh
  DEPARTMENT OF BIOTECHNOLOGY

- iDEX
  Innovations for Defence Excellence

- Raksha Mantralaya
  MINISTRY OF DEFENCE

- Invest India
  NATIONAL INVESTMENT PROMOTION & FACILITATION AGENCY
Incubation – Programs

**PREINCUBATION**

- **MV – Young Entrepreneur Program**
  For students and young graduates to develop entrepreneurial and leadership skills.
  - 3 Months

- **MV – Ideation Program**
  To create and develop ideas into tangible concepts, prototypes, and business models.
  - 3 Months

**INCUBATION**

- **MV – Prototype Development Program**
  To provide support through the product development journey up to technology/product validation.
  - 24 Months

- **MV – Product Commercialization Program**
  To support commercialising of validated technologies/products.
  - 30 Months

- **MV – Scaleup Program**
  To support startups in scaling up in productisation and business operations.
  - 24 Months

**Virtual Incubation Program**
To support startups from across the country to virtually incubate and take advantage of the fab and manufacturing facilities.
Facilities – Ecosystem

**INFRASTRUCTURE**
* Working Space  
* Fabrication & Manufacturing  
* Measurement & Testing Labs

**FUNDING**
* Seed Funds  
* Govt Grants  
* Angel & VC Connects

**NETWORKING**
* Academia  
* Tech Consultants  
* Industry  
* Investors

**ADVISORY**
* Mentor Network  
* Technical Support  
* Legal & IP  
* Finance

**PROMOTION**
* Events  
* Media  
* Workshops  
* Webinars
Facilities – High-End Equipment
### Facilities – High-End Equipment

#### Metal Machining Centre
- CNC Vertical Machining centre
- Turning Centre with DRO
- Power Tools
- MIG Welding

#### SMT Line
- A25000 CPH fully automated Industrial grade assembly line

#### Additive Manufacturing for Plastics
- Industrial Grade 3D Printers for prototyping jigs & Fixtures, master pattern for casting
- FDM based large format 3D printer
- SLA Printer

#### EMC Pre Compliance
- Signal Analyser
- Spectrum Analyser
- Near-field probes
- Pre compliance software

#### Software
- Mentor Graphics EDA
- Orcad PCB Design
- DS–3D experience
- Kiel MDK
- Solidworks
- Altium
- Proteus
- Altair
Facilities – Innovation Spaces
Facilities – Events

“HARDTECH”
NATIONAL DEEPTECH STARTUP CONCLAVE
Facilities – Life @ Maker Village
Facilities – *From Idea to Reality*

- **Incubation & Workspaces**
- **Display Rooms & Residences**
- **Fabrication & Manufacturing**
- **Events & Activities**

Nearing Completion
Maker Village

Thank you

https://makervillage.in