

The COER Incubation and Innovation Council (CIIC) serves as a dynamic bridge between academic learning and real-world application, offering an ecosystem that nurtures both startups and student internships. By integrating advanced technologies like 3D printing, laser cutting, AI tools, and a fully equipped prototyping lab in the form of a **Tinkering Lab** the CIIC empowers students to convert their ideas into tangible products and services. The incubation process supports startups from ideation to execution by offering structured mentorship, access to industry experts, seed funding opportunities, business development assistance, and networking platforms. At the same time, CIIC strengthens internship prospects by collaborating with industry partners, providing students with project-based learning opportunities, and involving them in ongoing startup operations within the incubator. This hands-on experience not only enhances their technical and entrepreneurial skills but also prepares them for leadership roles in the future job market. Interns often transition into full-time roles within startups or launch their own ventures with the knowledge gained.

The startups ready to be registered under the CIIC in brief are:

### 1. **Pharmtrust**

This startup is transforming pharmaceutical safety with a blockchain-based system that verifies drug authenticity using dynamic QR codes. It also allows users to report adverse drug reactions in real-time, ensuring safer medications and reducing counterfeiting.

### 2. **Eco Med Pack**

Addressing the growing plastic pollution problem, this startup is working on developing a biodegradable film for pharmaceutical packaging. This innovation will help make medicine packaging environmentally friendly without compromising on quality.

### 3. **Capsule Stays**

This startup is focusing on the hospitality industry by offering budget-friendly, short-term stay options. With hourly-based pricing models, it provides

affordable lodging solutions for solo travelers and people looking for temporary stays in urban areas.

#### **4. ParkX**

Finding parking in cities can be a nightmare! ParkX is solving this issue by connecting unused private spaces with people looking for parking spots. This not only reduces congestion but also allows property owners to earn passive income.

#### **5. Sanjeevani**

This startup is revolutionizing pet healthcare and rescue with AI-driven diagnostics. It can instantly detect potential illnesses in pets based on symptoms and uses predictive analytics to alert owners and rescuers about health risks before emergencies occur. Additionally, it provides a real-time rescue and shelter network with live GPS tracking for stray or injured animals and a smart shelter availability system to prevent overcrowding.

#### **6. Deep Clean Solutions**

This startup is developing an innovative Rotor Cleaner device that automates the cleaning of water tanks, making the process faster, more efficient, and less labor-intensive. The system features rotating scrubbers, a pneumatic horizontal cleaning rod, and suction holes to thoroughly remove dirt and grime from both the floor and walls of the tank.

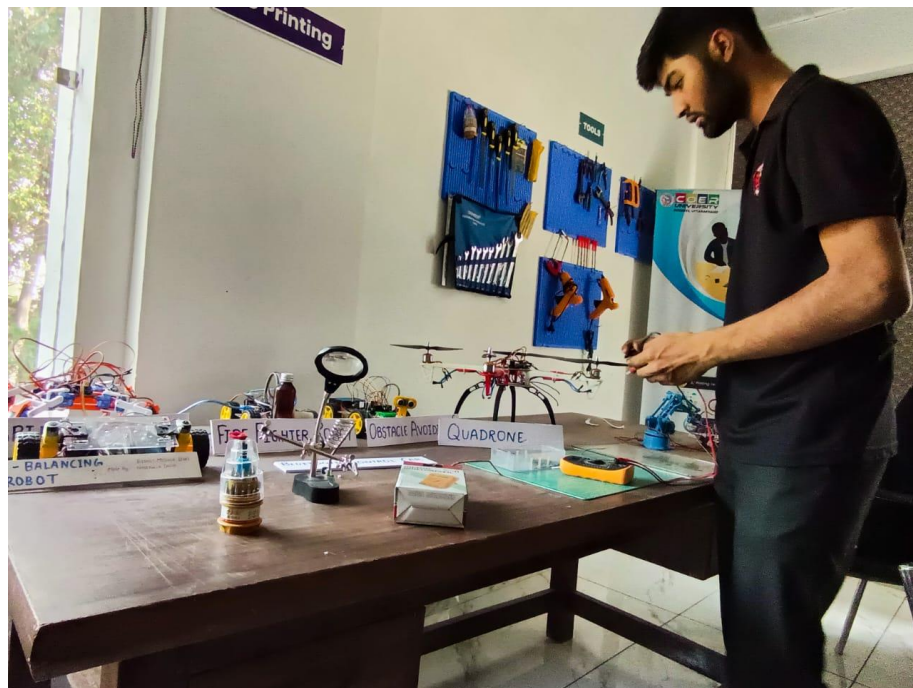
#### **7. SAKU Rush**

This one is enhancing cognitive learning in children through 3D-printed educational kits.

## CIIC ( COER Incubation and Innovation Council )



## Tinkering Lab





# **MOU between Makers Bhawan and COER University for Tinkering Lab Set Up worth Rs. 38 lakhs**

## **Memorandum of Understanding (MoU)**

### **Between**

**Maker Bhawan Foundation** (hereafter referred to as the "MBF"), incorporated in the USA and operated exclusively as a charitable organization for enabling Science Technology Engineering and Math (STEM) education and research in India, exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code as authorized under Revenue Code Section 170 (b) (1) (A).

### **And**

**COER University** (hereafter referred to as "COERU"), located in 7 kms Roorkee-Haridwar Road (NH-58), Post Box No. 27, Vardhmanpuram, Roorkee- 247667 District. Haridwar, known as **COERU University** was established as an institute of national importance for higher education and research by the Government of India in 2021.

This memorandum of understanding (hereinafter referred to as "MOU") is signed as of 12-03-2025 between the MBF and COERU for the setting up of a Tinkerers' lab (hereinafter after referred to as TL) for the purpose of this document.

### **PROJECT SUMMARY**

Project Name	:	Tinkerers' Laboratory (TL)
Date of Signing	:	March 12, 2025.
Project Overall Cost	:	INR 38 Lakhs.
Project Period Start	:	March 12 2025.
Project Period End	:	March 12, 2030.
MOU Duration	:	5 years.
Location	:	Roorkee, Uttarakhand, INDIA).
COERU Project Lead	:	Dr. Muneesh Sethi , Dean (R&D)
MBF SPOC	:	Mr. Sandeep Natekar. Sr. Program Manager.

### **1. PURPOSE:**

**MBF** intends to make a joint offering to (1) donate equipment as an in-kind donation towards the establishment of a TL at **COERU**, which will provide an avenue for students to experiment and learn in hands-on mode. (2) To enable a series of workshops, courses, boot-camp and teacher training programs conducted by LEAP (Learning Engineering by Activity through Projects) Program of the IIT Madras Incubation Cell (IITM IC). The TL facility along with the LEAP programs will promote a "Learn by Doing" and hands-on technical skills that will improve student-learning outcomes and help the students in acquiring industry-relevant skills and abilities.

The Institute has made an application for the TL contained in [Annexure 1](#). The specific details of setting up of the Lab are outlined in the proposal prepared by **COERU** in consultation with **MBF** as [Annexure 2](#) (all parts contained therein).

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This grant agreement (with annexures) will be binding upon **COERU**, its successors and assignee and **MBF** and its successors and assignees.

## 1. PROJECT RESPONSIBILITY:

### 1.1: Responsibility of COERU

No	Item	Details
1	<b>Project Implementation Scope</b>	As per the full scope of the proposal submitted by way of <a href="#">Annexure 2</a> (and all parts contained therein)
2	<b>Space and Infrastructure</b>	as per <a href="#">Annexure 2: Part 3</a>
3	<b>Lab Champion and Human Resources</b>	The appointment of the right human resources is critical to the success of the TL. COERU will appoint a full-time <b>Lab Champion</b> (manager cum technician) for the oversight, management and day to day upkeep and maintenance of the TL. COERU will also consider the expert recommendations and opinions of the <b>MBF</b> (if any) while changing/making new appointments. All other human resources, their roles and responsibilities as per <a href="#">Annexure 2: Part 2</a>
4	<b>Lab Access</b>	As per <a href="#">Annexure 2: Part 3</a>
5	<b>Operating Expenses (OPEX)</b>	AMC, Salaries of technicians, overheads and cost of consumables. Ref <a href="#">Annexure 2: Part 4</a>
6	<b>Safety and Security</b>	COERU will take full care and responsibility regarding the safety, security, maintenance and regular upkeep of the donated items and ensure the same are in working condition and available for students' use at all times. COERU will also ensure the donated items are utilized only for the purpose indicated in this MOU.
7	<b>Data Reporting</b>	COERU will provide an externally audited comprehensive Fund Utilization Report (FUR)/Utilization Certificate (UC) for all funds received from MBF. COERU will facilitate free and open interaction of the <b>MBF</b> with the TL student committee to gather information, statistical usage data, quarterly narrative progress reports (QNR), project photographs/videos, success stories, and a comprehensive annual review report (ANR) on the progress of the Lab in the prescribed formats as per the existing norms of <b>MBF</b> . The <b>MBF</b> will be informed of any changes in the TL infrastructure and human resources at any time and MBF. The COERU will ensure cooperation of the TL human resources in utilizing the MBF developed MIS platform for efficient data collection and reporting. Details under point # 4 of <b>MBF</b> responsibilities.
8	<b>Media Credits</b>	Any report or communication, whether online or offline related to TL or any of the Lab's digital media assets including their social media accounts and website will also duly credit <b>MBF</b> .
9	<b>Sustainability Plan</b>	The <b>COERU</b> will prepare and present (by the end of year 4) a sustainability plan to sustain and support the programs and activities of the lab, beyond the period of financial support promised by the <b>MBF</b> in this MoU, including the servicing and maintenance of the machines and equipment in the lab, the salaries of the lab technicians, personnel or managers hired for the daily operation of the lab activities and procurement of consumables and inventory.
10	<b>MBF Indemnity</b>	COERU agrees to indemnify the <b>MBF</b> from any loss, injury or damages caused to any person or property due to the donated equipment, machinery, tools or technology. COERU also agrees to scrap/dispose off the equipment following the completion of the equipment life in accordance with the prevalent e-waste disposal laws of the local/state/national governing bodies and will not hold MBF liable to do so in any way.

		MBF will be informed in writing prior to doing so giving full details of equipment being disposed off and the reason for doing so.
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## 2. Responsibility of MBF

No	Item	Details
1	<b>Donation (CAPEX)</b>	<b>MBF</b> will donate towards the CAPEX in the form of Equipment worth <b>INR 30 Lakhs</b> (including GST) only. This donation will be in the form of equipment worth two tranches of <b>INR 15 Lakhs</b> (including GST) each. The first tranche will be utilized on the date of endorsement of this MOU while the second tranche will be utilizable after <b>thirty six (36) months</b> from this date
2	<b>Donation (non-CAPEX)</b>	<b>MBF</b> will also allocate an initial funding of <b>INR 4 Lakhs</b> for the courses of the LEAP program incubated at the IIT Madras Incubation Cell (IITM IC). This will be utilizable towards student participation fees for the LEAP courses <b>within 24 months</b> from the MoU signing date. This will be to cover upto 50% ( <b>cap of ₹ 2 Lacs/year</b> ) of the student participation fees in any LEAP course in that year. A formal MoU with the IITM IC for the LEAP program with the necessary annexures and invoices for the courses subscribed will have to be shared prior to availing this support.  <b>MBF</b> will also provide financial support for a maximum of <b>INR 4 Lakhs</b> , on a matching basis by the COERU, towards consumables. This support will be available for a <b>maximum of INR 1 Lakh per year, on matching basis by COERU, from the second year</b> following the date of signing of this MOU.
3	<b>Program Oversight and Strategic Support.</b>	<b>MBF</b> will interface with the COERU for program implementation to ensure successful implementation of the project within the agreed timelines and deliverables. <b>MBF</b> will interact with the student management team and the PIC whenever required for this purpose. <b>MBF</b> will monitor the performance and outcomes of the project by way of periodic reviews (quarterly, annual etc) to assess project goals and suggest areas and methods of improvement. <b>MBF</b> will also visit the COERU for this purpose as and when required. Ref: <a href="#">Annexure 2: Part 5</a> for details.
4	<b>Makerspace Information System (MIS)</b>	<b>MBF</b> will provide access to the TL PICs, student management and users to the MIS platform (developed by the <b>MBF</b> ) to enable automated data collection of TL usage in terms of Projects, Events, equipment and machine utilization and TL foot-fall. This will facilitate efficient monitoring of the TL utilization and activities.
5	<b>Networking</b>	<b>MBF</b> will provide <b>COERU</b> TL users and human resources access to the <b>MBF's</b> TL network and resources for mentoring and collaboration purposes.

## 3. TIME FRAME:

The agreed upon period for this project is from the date of the signing of the MoU to **12-03-2025** for a period of **five (5)** years.



#### 4. GOVERNING LAWS AND JURISDICTION:

4.1. The parties resolve to settle any disputes related to the project amicably through mutual discussion. For any disputes, the laws of the State of Uttarakhand shall govern the construction, interpretation, or enforcement of this Agreement.

4.2. This Agreement along with the Annexure contains the entire understanding of the parties for the subject matter of the Agreement. This Agreement also supersedes all other agreements and understandings, both oral and written, between the parties relating to the subject matter of this Agreement.

4.3. If any part of this Agreement shall be held by a court of competent jurisdiction to be illegal, invalid or unenforceable, the remaining provisions shall remain in full force and effect.

4.4. This agreement may be made in one or more counterparts each of which shall be deemed an original, but all of which together shall constitute the same instrument.

4.5. All assets and IP generated from the proposed TL shall be the sole property of **COERU**; **MBF** shall have no claim on the assets and IP thus generated from the TL.

4.6. **COERU** will not sell, donate, dispose, discard, destroy, relocate, replace or exchange the donated equipment, machinery, tools and technology without the explicit written consent of the **MBF**.

**5 MoU Extension, Modification and Termination:** This MoU may be modified by explicit written mutual consent of authorized officials of **COERU** and the **MBF**. This MoU shall become effective upon signature by the authorized officials from **COERU** and the **MBF** and will remain in effect until modified or terminated by any one of the partners by explicit written mutual consent. In the absence of explicit written mutual agreement by the authorized officials, this MoU shall stand terminated on **March 12th, 2030**. On completion of the MoU, it may be extended by the explicit written mutual consent of both the parties.

If the terms and conditions are acceptable to both parties, proceed to sign below to imply acceptance.

IN WITNESS WHEREOF, the Parties to this MoU have set below their respective hands on the date mentioned herein above.

SIGNED, & DELIVERED

**Manish Kumar**  
Digitally signed  
by Manish Kumar  
Date: 2025.03.21  
15:47:04 +05'30'

By: Dr. Manish Kumar  
For and on behalf of **COERU**

Designation: **Registrar**  
COER University, 7kms Roorkee-Haridwar  
Road (NH-58), Post Box No. 27,  
Vardhmanpuram, Roorkee- 247667  
District. Haridwar

SIGNED, & DELIVERED

*Dr. Bhattacharya*

By:  
For and on behalf of **MBF**

Designation: **Chief Executive Officer**  
Maker Bhavan Foundation  
1228 Harker Avenue,  
Palo Alto, CA 94301, USA

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