

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

No.CBIT/215/Admn./2024

Dt.30.10.2024

Reconstitution of INSTITUTE INNOVATION CELL

The Institute Innovation Cell is reconstituted with the following members

1.	Prof. C.V. Narasimhulu, Principal	Chairman
2.	Prof. P. Ravinder Reddy, I/c-Director-HRE	Member
3.	Prof. N. V. Koteswara Rao, Director-IQAC	Member
4.	Prof. D.Krishna Reddy, Director-R&D	Member
5.	Dr. N.L.N. Reddy, Advisor-CDC	Member
6.	Prof. P. Narahari Sastry, ECE	Member
7.	Prof. C. Ravi Kumar Reddy, Civil Engg.,	Member
8.	Dr. Y. Rajasri, Head, Biotechnology	Member
9.	Dr. T. Chaitanya Srikrishna, Asst. Professor, Civil	Member
10.	Dr. R. Prasanna Rani, Asst. Professor, Chemical Engg.	Member
11.	Dr. P. Srilatha, Assoc. Prof., AI&DS	Member
12.	Mrs. T. Ramya, Asst. Prof., AI&ML	Member
13.	Dr. G. Jaya Rao, Asst. Prof., CE&T	Member
14.	Dr. G. N. R. Prasad, Asst. Professor, MCA	Member
15.	Mrs. V. Sandhya, Asst. Professor, Mech. Engg.	Member
16.	Mrs. M. Sangeetha, Asst. Professor, SMS	Member
17.	Prof. Umakanta Choudhury, Advisor-I&I	Convener




Prof. C.V. NARASIMHULU
PRINCIPAL

To

All members of the Institute Innovation Cell, for information and necessary action.

C.C. to all Advisors, Directors, Associate/Assistant Directors, Heads of the Departments,
In-charges of Sections, CoE, Head-HR, Librarian, Asst. PD, PRO, for information and
advised to circulate among all the staff under their control.

Chaitanya Bharathi Institute of Technology (A)

Chaitanya Bharathi (PO), Kokapet (V), Gandipet (M),
Ranga Reddy District, Hyderabad - 500 075, Telangana, India

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Annual Report 2023-24

Chaitanya Bharathi Institute of Technology



About IIC Institute (CBIT)

Chaitanya Bharathi Institute of Technology (CBIT), established in 1979, is widely regarded as a leading engineering institute in Telangana and Andhra Pradesh. It was founded by visionaries from diverse fields—engineering, medicine, law, and management—with the aim of providing top-quality education in engineering and management, contributing to the nation's growing need for skilled professionals in a rapidly developing economy.

CBIT features world-class infrastructure, including state-of-the-art laboratories, a spacious library with extensive printed and digital resources, and comprehensive facilities for sports, hostels, research, innovation, and entrepreneurship. The campus, spread over 50 acres with a built-up area of 57,714 square meters, offers a serene environment that fosters academic pursuit. The institute also houses a cutting-edge Research and Development Centre with modern facilities to promote advanced research and an innovation ecosystem.

CBIT established its Institution's Innovation Council (IIC) to nurture a culture of creativity and entrepreneurship among students. The IIC has conducted over 50 programs focused on innovation, incubation, startups, idea competitions, and intellectual property rights (IPR) activities, engaging a large number of students and faculty members. Through initiatives like ideation, problem-solving, design thinking, and project management at the pre-incubation and incubation stages, CBIT has created a vibrant innovation and entrepreneurship ecosystem. CBIT's IIC has earned a 4-star rating from MIC and has been ranked in the 101-150 band in the ARIIA (NIRF Innovation Rankings). Both students and faculty are encouraged to develop products and file IPRs. Recently, 60 students were trained under the T-Tribe Launchpad program, receiving certifications in entrepreneurship from T-Hub. The institute's EDC (Entrepreneurship Development Cell) also organizes various entrepreneurship programs for the benefit of students and faculty.

CBIT has been awarded Rs. 5 crores in World Bank assistance under TEQIP II and established the first Atal Community Innovation Centre (ACIC) in Telangana with Rs. 4.51 crores in funding. Additionally, the institute launched an AICTE-IDEA Lab with Rs. 95 lakhs in support. CBIT was the first self-financed institution in the region to receive ISO 9000 certification. It has completed 75 research and consultancy projects worth Rs. 4.45 crores, with 24 ongoing projects valued at Rs. 10.34 crores. Five of its engineering departments are recognized as research centers by Osmania University, and the institute has signed 56 MoUs with prominent organizations to further research and innovation.

CBIT's intellectual property achievements include publishing over 115 IPRs and being

T. Chaitanya

Professor and Advisor- I&I, CBIT

granted 22 patents. The institute also supports 23 startups, with two of them generating over Rs. 1 crore in revenue. Industry-supported labs worth Rs. 8.2 crores have further strengthened CBIT's research capabilities. Students have also excelled in national hackathons, winning Rs. 13.64 lakhs in prize money, and CBIT was the first in Telangana to introduce Honors and Minor Engineering degrees.

In line with the "Make in India" initiative, CBIT has developed a multi-crore, state-of-the-art building with cutting-edge technical facilities, fostering collaboration with industries and academia on multidisciplinary research projects. Five departments are recognized as research centers under Osmania University, with over 350 researchers contributing to impactful research. The institute's research policy encourages faculty and students to tackle socially relevant issues. Last year, 110 students completed the T-Tribe entrepreneurship program, and over 700 students were certified by ESF for their proficiency in designing home solar systems.

CBIT's R&E Hub includes three key units: the Startup Cell, IPR Cell, and MSME Incubation Centre, establishing a comprehensive ecosystem for innovation, startups, MSMEs, and rural innovators. In 2023, CBIT maintained its NIRF Innovation ranking (101-150 band) and increased the **number of IIC activities from 72 to 95, benefitting over 10,000 students, compared to 6,000 students the previous year.** The institute supports women innovators, with 43 ideas submitted by students, faculty, MSMEs, and startups (including women innovators) on the MSME portal for Hackathon 3.0 funding, with one project receiving Rs. 15 lakhs, 85% of which was funded.

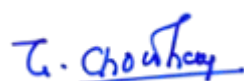
The prestigious IDEA Lab, featuring Drone and Robotics Labs and a Digital Manufacturing Lab, is under development. CBIT has formed partnerships with T-Hub, RICH, OTBI, Osmania University, and various corporations to enhance students' entrepreneurial skills. Last year, 1,132 students completed internships, training, or projects with industry partners, enhancing their problem-solving abilities and employability.

CBIT's extensive network of over 56 MoUs exposes students to industrial experience, internships, and innovation-related activities. Recent partnerships with CbaaS and Factor-Y aim to commercialize 10 patents, which will be featured on their website for further processing. Additionally, CBIT collaborates with TiE Hyderabad to organize entrepreneurship programs with the theme "Education to Entrepreneurship." MoUs with Ni-MSME Hyderabad have also enabled joint FDP/MDP programs on business incubation and new technology.

1. To facilitate the generation of ideas, pre-incubation, incubation, and human resource development, leading to the creation of startups and businesses driven by creativity, innovation, entrepreneurship, and intellectual property. Our goal is to empower students, faculty, and other innovators by fostering a knowledge-based ecosystem that promotes entrepreneurial success.

Mission Statement

- Provide a dynamic and vibrant ecosystem for students, faculty, entrepreneurs, and startups, emphasizing the development of new technologies and processes.



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- Foster creativity and innovation to promote entrepreneurship and enhance socio-economic and cultural growth by offering lecture sessions and industry visits.
- Focus on advanced systems and methods, including AI and ML, to improve access to healthcare, agriculture, sustainable environmental practices, and industrial technology development.
- Promote innovation within higher education by establishing and streamlining the startup and innovation ecosystem at the institutional level.
- Align with the objectives of the National Innovation and Startup Policy (NISP), MSME initiatives, and Atal Community Innovation Centre (ACIC).

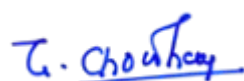
2.0 The Journey of the Institution's Innovation Council (IIC) at CBIT

The IIC at CBIT is committed to the following objectives:

- **Promote innovation at the institution:** Implement diverse approaches to foster an innovation ecosystem within the campus, establishing and streamlining the startup and innovation ecosystem at CBIT
- **Promote technology development:** Encourage students, faculty, and entrepreneurs to develop new technologies, knowledge, and innovation-based products and processes.
- **Foster design thinking:** Promote design thinking among students and provide a platform for the rapid development of technology.
- **Pre-incubation and idea incubation:** Establish a single-window system for pre-incubation and idea incubation, providing comprehensive web-based information and guidance.
- **Enhance skills and knowledge:** Offer domain knowledge, skill enhancement, and training to inspire innovative thinking and the development of new products and services.
- **Preserve traditional knowledge:** Conduct activities to promote and protect traditional knowledge by collaborating with its holders and focusing on product development.
- **Create a vibrant ecosystem:** Build a strong network between academia, MSMEs, and government/PSUs to cultivate an entrepreneurial culture.

Higher educational institutions are uniquely positioned to serve as both an "engine" for innovation and a "catalyst" for sustainable development. The fusion of these two roles is best demonstrated through their active engagement in innovation ecosystems. Nature has long been a source of inspiration for discoveries and innovations that can be applied to human endeavors. At Chaitanya Bharathi Institute of Technology (CBIT), a multi-crore, state-of-the-art building with cutting-edge technical facilities has been established to support and promote innovation and research activities.

CBIT has set up its Institution's Innovation Council (IIC) to cultivate a culture of creativity and entrepreneurial thinking among students. The IIC has organized over 89 programs focused on innovation, incubation, entrepreneurship, startups, idea competitions, and IPR-related activities, engaging a large number of students and faculty. Activities such as ideation, problem-solving, design thinking, proof of concept development, and project management



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at the pre-incubation and incubation stages have helped establish a robust innovation ecosystem. CBIT's IIC has earned a Four-Star rating from MIC and is ranked in the 101-150 band in the ARIIA (NIRF-Innovation Ranking). Students and faculty are encouraged to develop products and file IPRs. Recently, 110 students were certified by the T-Tribe's Launchpad program during 21-22 and 22-23 in entrepreneurship by T-Hub. Additionally, CBIT's EDC (Entrepreneurship Development Cell) regularly organizes programs to support students and faculty in their entrepreneurial endeavors.

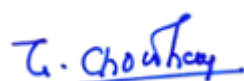
CBIT is also home to 28 startups, four of which have filed and published patents. The institute has filed and published 115 IPRs, with 22 patent grants already received. Few of these contributions come from student project work. CBIT was awarded a Four-Star rating for the last 3 years and was recognized in the "EXCELLENT" category of the ATAL Ranking of Institutions on Innovation Achievement (ARIIA). It secured the top position in the I&E Ecosystem Journey/Achievements for the past two years at the IIC Regional Meet organized by MIC and AICTE, with 160 colleges from Telangana and Andhra Pradesh participating.

To further foster innovation, CBIT is establishing an AICTE Idea Lab with a Rs. 95 lakh investment, including facilities for digital printing, drones, robotics, and prototype manufacturing. This lab will provide students with the resources needed to transform their ideas into prototypes, and they are encouraged to file patents and copyrights. Additionally, CBIT's Atal Community Innovation Centre (ACIC), funded 50% by AIM (NITI Aayog), will serve as a makerspace with modern equipment to support innovation in underserved regions. The ACIC programs provide a platform for students and rural innovators to showcase their ideas and problem-solving abilities. Currently, 28 startups and ideas are being incubated and mentored by ACIC and CBIT, with four having filed patents. In its first year, CBIT contributed Rs. 66.6 lakhs to support innovation activities at ACIC-CBIT.

CBIT also established a Business Incubator (BI) in collaboration with MSME in 2019 to nurture entrepreneurial ideas from students, local communities, and MSMEs. The BI supports these ideas by providing a conducive environment and mentorship, with a focus on converting social ideas into social startups. CBIT's MSME BI submitted ideas for MSME funding, with three projects receiving Rs. 45 lakhs (85% funded by MSME). **One project has been sanctioned for a Students's innovation.** Under the MSME Hackathon 3.0 for Women, more than 60 ideas were submitted, with 43 were recommended. One MSME startup incubated at CBIT received a German patent for its innovative product.

CBIT's strength lies in its extensive student and alumni network, which supports innovation through mentorship, feedback, and guidance. The CBIT alumni community, consisting of over 30,000 Plus members, contributes to the institute's growth through their expertise and support. Key alumni engagement initiatives include:

- **Mentorship Programs:** Connecting alumni with students for career guidance and support.
- **Alumni Connect Drives:** Engaging alumni for feedback to further the institute's development.
- **Guest Lectures:** Inviting industry experts to share insights with current students.
- **Alumni Meets:** Strengthening relationships through regular alumni gatherings.



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- **Homecoming Events:** Welcoming alumni back to campus to relive their college experiences.

The Innovation and Entrepreneurship Ecosystem at CBIT empowers students to transform their creative ideas into innovative products that can be patented and commercialized. This ecosystem not only fosters innovation but also helps students develop valuable competencies that will benefit them in any career path they choose

Diversified representation in the IIC established at the institute from industry, interdisciplinary departments/ Units etc. External members.

Role	Name	Email	Contact	Organization	Member	Experience	Qualification
Members	Dr. A. Venugopal Rao	venugopal@dmrl.drdo.in	9908714567	DMRL	Expert from nearby industry/industry association/ Ecosystem Enablers	34	Doctorate
Members	Mr. Phani Pattamatta	ed@telhyderabad.org	9000283338	The Indus Entrepreneurs (TIE)	Start up/ Alumni Entrepreneur	26	Post Graduate
Members	Mr. Venkata Rama Rao Adhikari	venkatarama.adhikari@gmail.com	8220260777	AIPC	Patent expert	16	Post Graduate
Members	Dr. Shanta Thoutam	shanta.t@t-hub.co	9966657034	T-Hub	Incubation Centre	8	Doctorate
Members	Ms. Srirama Chennojwala	sri.ramya09@gmail.com	8008502273	IOCI Bank Ltd.	Bank/Investor	10	Post Graduate

MoUs with Industries and Other Institutions.

I&E Related MoUs for the last two years are uploaded with the following link for information. Students carry out internships, Projects, and Training in emerging areas with Industries.

(MoU 2022- Till Dtae)

<https://www.cbit.ac.in/wp-content/uploads/2022/12/3.7.2-MOUs-for-2021-22.pdf>

(~~MoU 2020-21~~)

<https://www.cbit.ac.in/wp-content/uploads/2022/12/3.7.2-MOUs-for-2020-21.pdf>

Brief mention of key functionaries at the IIC Institute

- President
- Vice President
- Convenor
- Coordinators etc.

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Institute Innovation Council Members (23-24)

S.no	Name
1	Prof. C.V. Narasimhulu, Principal, President , IIC
2	Prof. P. Ravinder Reddy, I/c-Director-HRE Member
3	Prof. N.V. Koteswara Rao, Director- IQAC Member
4	Prof. A.D. Sarma, Director-R&D Member
5	Dr. N.L.N. Reddy, Advisor-CDC Member
6	Prof. P. NarahariSastry, ECE Member
7	Prof. K. Rama Krishna, IT Member
8	Dr. Y. Rajasri, Assoc. Prof., BioTech
9	Dr. T. Chaitanya SriKrishna, Asst. Professor, Civil Engg.
10	Dr. R. Prasanna Rani, Asst. Professor, Chemical Engg.
11	Dr. P. Satya Kiranmai, Asst. Professor, AI&DS Member
12	Mrs. T. Ramya, Asst.Prof., AI&ML Member
13	Dr. G. Jaya Rao, Asst. Prof., CE&T Member
14	Dr. G. N. R. Prasad, Asst. Prof., MCA Member
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17	Prof. Umakanta Choudhury, Prof. & Advisor-I&I, Convener, IIC

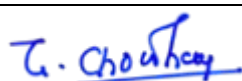
A. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

- Total No. of IIC Members 17
- Total No. of IAs 37
- Total No. of faculty Mentors From Portal: 50

Highlight Facilities, Infrastructure of Pre-Incubation and incubation kind and Student bodies/clubs engaged in the promotion of Innovation and Entrepreneurship in the campus.

• **Pre-Incubation Units, If any**

S.no.	Pre-incubation Unit
1	IT - IoT Lab
2	IT - BDA Lab
3	Robotics Process Automation Lab
4	Automotive Design and Fabrication Center
5	Artificial Heart Innovation Center
6	AI based Transformer Monitoring System
7	CBIT – Kernel Sphere IoT Center – GPS Tracking
8	CBIT – MSME Incubation Center – IMRC
9	CBIT – Cyber Security Center of Excellence
10	CBIT – Entrepreneurship Development Cell
11	CBIT – Zoom Technologies – AI ML and Cyber Security



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12	CBIT-CAREs renewable Centre for Solar PV System
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• **Incubation Units, If any**

S.no.	Incubation Unit
1	MSME Incubation Centre
2	ACIC-CBIT Innovation Centre
3	CBIT-AI Transformer Project
4	CBIT - Digintrude Cyber Security SOC Center
5	AICTE IDEA Lab

The institute has a total of 50 student clubs which facilitate the participation of students in various events. A good number of students brought laurels to the institute through their excellence. It has a unique practice of nominating the most meritorious students as the members of the students' council. They are involved in various institute-level committees and honed to become good leaders.

B. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted :89
- No. of student's & faculty ideas generated: 150 Plus
- No. of students & faculty Innovation/prototypes developed: 45

I&E related Courses offered Link:

https://drive.google.com/file/d/18lLBQdEAngJkIs5n2yKiogoT3aNdf0de/view?usp=drive_link

No. of IPs generated, published, and granted: 115 Patents Published, 22 Patents Granted, 13 Copyrights. List of Patents Granted, Published, and List of Copyrights.

Link for Details of Patents.

<https://docs.google.com/spreadsheets/d/1NGSX8pDsxIVdCrmZ62yzQ3oO74hGnG7h/edit#gid=1131720798>

- No. of Student and faculty Start-ups/Ventures established. **Four**
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus by CBIT: **Rs 90 Lakhs.**
- Amount grant or fund supported to student and faculty lead Innovations, start-ups, and IPR by CBIT: **Rs 12 lakhs**
- No. of Technology Transfer and Commercialisation happened-**One**
- No of Ideas submitted for MSME Hackathon3.0.: **43 Nos.**
- Funding received for new Ideas **Rs 45 Lakhs (85% funding from MSME)**

C. **Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for their innovations at different forums[Profile of few faculties with 2-3 line of their achievements]**

Two teams from CBIT were selected to display their products on 15th August at Hyderabad. **Honorable Education Minister, Telangana Madam Sabitha Reddy** visited the product display.

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The participants were issued certificates.



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OTBI Ideathon: AI for Mental Health:



CBIT got Second Prize in the Idea Competition held on 1st July 23 at Osmania TBI. IIT Mumbai got first prize and IIM Kolkata got third prize. A newspaper report (copy Received from OTBI) on the subject is enclosed. Nearly 2000 participants connected offline and online as mentioned by OTBI. Congratulations to Ms. Swarali Sharma, Second year CSE. She got Rs. 10,000 cash prize and Rs. 1 Lakh Incubation support from OTBI. 3 more students are also on the list of 10 to get Rs. 1 lakh Incubation support.



CBIT Team Joint winner for Rs 10 Lakhs Prize money with Hexagon Team

- D. Highlight selected best Innovations & images with mention of inventor/innovation name

Sonic Aitertec Systems. Start-up

SDG-9, Industry, Innovation and

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Infrastructure (SI No-27) Mr. Uday Bhaskar with the developed model. Model-1 Commercialized. Model-2 with improvements being worked out.



Inventor:Start-up Mr. UdayBhaskar, MSME Start-up, Sonic Airtek Pneumatic conveyors.Mentor: Dr U.K Choudhury, Prof.&Advisor(I&I) CBIT



During Recent IIC Regional Meet



During Recent IIC Regional Meet



Products during a demonstration at MSME Event



Products made by the Start-up using 3D printing

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- E. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name

 भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small and Medium Enterprises		 सूक्ष्म, लघु एवं मध्यम उद्यम MSME, Small & Medium Enterprises																					
UDYAM REGISTRATION CERTIFICATE																							
UDYAM REGISTRATION NUMBER	UDYAM-TS-09-0046483																						
NAME OF ENTERPRISE	CHAAYA																						
TYPE OF ENTERPRISE *	MICRO (Based on FY 2020-21)																						
MAJOR ACTIVITY	MANUFACTURING																						
SOCIAL CATEGORY OF ENTREPRENEUR	OBC																						
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1	Chaaya																						
OFFICIAL ADDRESS OF ENTERPRISE	<table border="1"> <thead> <tr> <th>Flat/Door/Block No.</th> <th>Flat No: 102, 678</th> <th>Name of Premises/ Building</th> <th>Sai Laxmi Residency</th> </tr> </thead> <tbody> <tr> <td>Village/Town</td> <td>Prashant Nagar</td> <td>Block</td> <td>Vanasthalipuram</td> </tr> <tr> <td>Road/Street/Lane</td> <td>Road No:10</td> <td>City</td> <td>Hyderabad</td> </tr> <tr> <td>State</td> <td>TELANGANA</td> <td>District</td> <td>RANGA REDDI, Pin 500070</td> </tr> <tr> <td>Mobile</td> <td>9000356111</td> <td>Email:</td> <td>sreenivas.andoju@gmail.com</td> </tr> </tbody> </table>			Flat/Door/Block No.	Flat No: 102, 678	Name of Premises/ Building	Sai Laxmi Residency	Village/Town	Prashant Nagar	Block	Vanasthalipuram	Road/Street/Lane	Road No:10	City	Hyderabad	State	TELANGANA	District	RANGA REDDI, Pin 500070	Mobile	9000356111	Email:	sreenivas.andoju@gmail.com
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Mobile	9000356111	Email:	sreenivas.andoju@gmail.com																				
DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	24/03/2012																						
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	24/03/2012																						
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	<table border="1"> <thead> <tr> <th>SNo.</th> <th>NIC 2 Digit</th> <th>NIC 4 Digit</th> <th>NIC 5 Digit</th> <th>Activity</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>18 - Printing and reproduction of recorded media</td> <td>1820 - Reproduction of recorded media</td> <td>18200 - Reproduction of recorded media</td> <td>Manufacturing</td> </tr> </tbody> </table>			SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity	1	18 - Printing and reproduction of recorded media	1820 - Reproduction of recorded media	18200 - Reproduction of recorded media	Manufacturing										
SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity																			
1	18 - Printing and reproduction of recorded media	1820 - Reproduction of recorded media	18200 - Reproduction of recorded media	Manufacturing																			
DATE OF UDYAM REGISTRATION	31/10/2022																						

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* In case of graduation (upward/reversion) of status of an enterprise, the benefit of the Government Schemes

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GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that CHHAAYA STORIES PRIVATE LIMITED is incorporated on this Twenty ninth day of December Two thousand twenty-two under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U92490TG2022PTC169793.

The Permanent Account Number (PAN) of the company is **AAKCC7966N** *

The Tax Deduction and Collection Account Number (TAN) of the company is **HYDC13424F** *

Given under my hand at Manesar this Twenty ninth day of December Two thousand twenty-two .

DIGITAL SIGNATURE CERTIFICATE

PANKAJ SRIVASTAVA
DEPUTY REGISTRAR OF COMPANIES

For and on behalf of the Jurisdictional Registrar of Companies

- F. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation

G.

Design and Development of Low Cost LVAD

A Left Ventricular Assist Device (LVAD) is a mechanical pump used to support heart function in patients with severe heart failure. It helps the left ventricle pump blood to the rest of the body, improving circulation and reducing symptoms of heart failure. LVADs are often used as a bridge to heart transplantation or as a long-term solution for those not eligible for a transplant. These devices are powered by external batteries connected to the body via a driveline. LVADs can significantly enhance the quality of life for patients, allowing them to carry out daily activities with less fatigue. There are over 4 million heart failure cases in India at any given point of time but barely 100 heart transplants are conducted every year. The main problem is poor cadaver donation problem for matching hearts for transplantation. An inexpensive LVAD that extends patient's life will make it easier to match hearts to patients.

The recent LVAD weigh around 100 grams though the early implantable VADs weigh more than 1000 grams. No institution reported to have developed and tested LVADs in India. Frist time holistic development is being initiated in India with strong societal motive to develop a low cost VAD. Scope of the present work is to develop centrifugal blood pump with pivot bearing for left ventricle assist device in the Indian context at low cost may be less than ten lacs. The Objectives will include Conceptual design, Sizing of the pump and impeller design to meet the specifications, Generation of H-Q curves , Manufacturing prototype using 3D printing, Design and establishing mockup loop with instrumentation and data acquisition, In-vitro testing with water and mixture of water, glycerine and blood, Animal testing with the prototype. It has proposed to Develop an extracorporeal heart-assist system, manufactured in India, for clinical use to meet the critical need for this life-saving technology in India. Collaborations with University of Pittsburgh, Cornell University, AIG , PBS and others are planned to develop the system. The first Model Has been developed and tested with glycerine, blood, and trial with the Animal Heart system.

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H. Participation of IIC-institute in various programs of Central and Stage Govt.
Highlighting specially for the schemes or programs

- ARIIA NIRF-Innovation Rank – participation and Rank: 101-150
- IIC Rating – 4 Star Rating for Last 3 years.

ARIIA – Participated – ARIIA 2021, 2022 and 2023 Ranking under the Private or Self-Financed College/Institutes Excellent Band in ARIIA 2021. And in the band of 101-150 in 2022. This Year's Ranking beyond 50 is yet to be declared.



NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation: Yes, faculty trained, innovation/Incubation/Startup Policy formulated and is Implemented, all details and plans have been uploaded.

Website url: https://www.cbit.ac.in/research_post/nisp/ and <https://www.cbit.ac.in/wp-content/uploads/2020/11/CBIT->

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[Innovation-Inncubation-start-up-policy-28th-July-NISP-PDF.pdf](#)

A list of Startups is uploaded in the enclosed Link.

https://drive.google.com/file/d/12LoxZ56EjHoCM8flh3Gm7n8-qhs7jLxL/view?usp=drive_link

Smart India Hackathon and Ideathons.

CBIT's had participated in SIH and The teams had uploaded 50 Plus Ideas in the SIH website.

I. Detail of social media and connections of IIC institute:

Face book Link:<https://www.facebook.com/CBIT-IIC-318430625444849/>

Instagram Link:<https://instagram.com/cbitiic?igshid=1vzkmev2qq8n4>

Twitter Link:

<https://twitter.com/CbitCouncil?s=09>

J. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

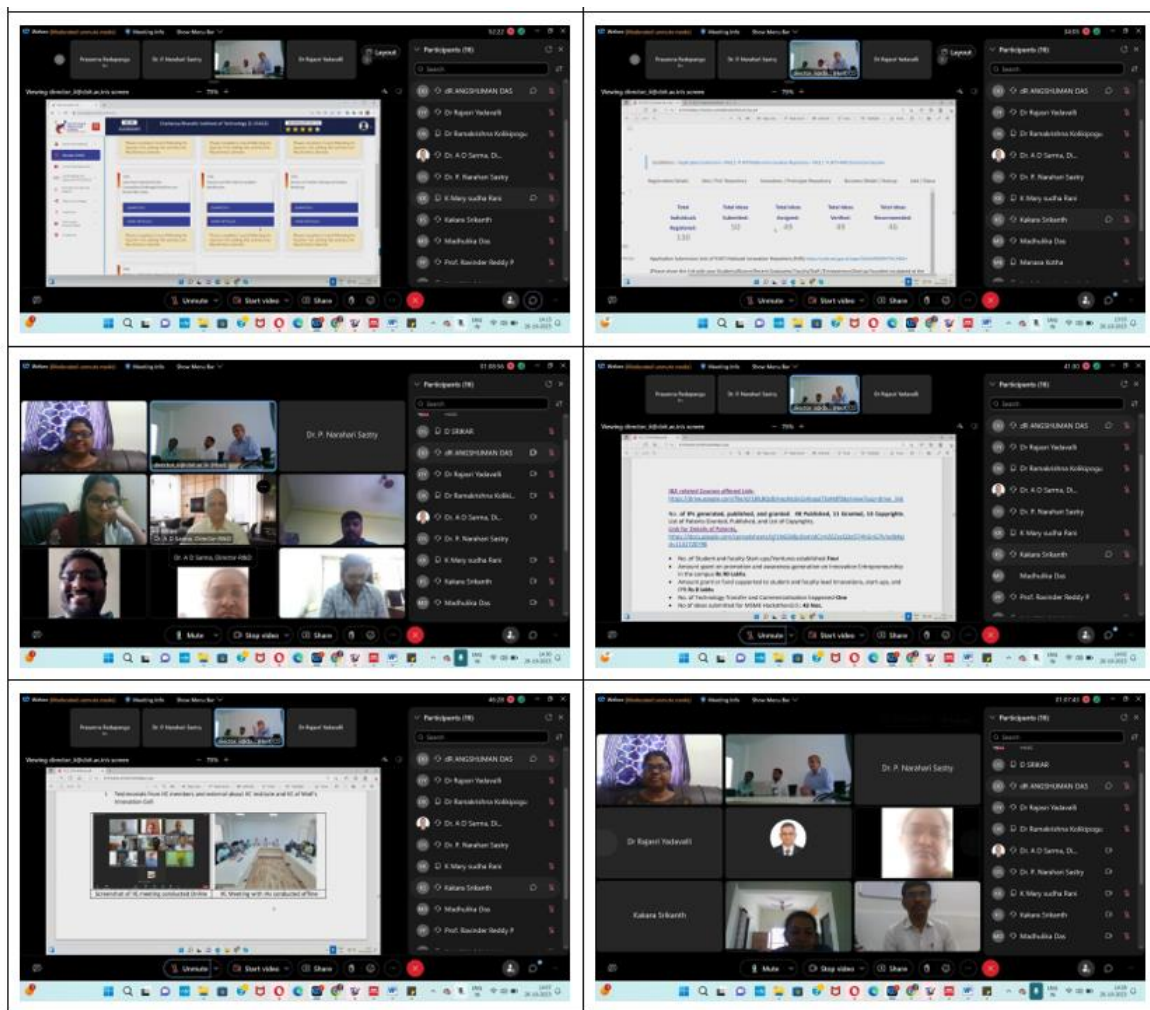


IIC meeting conducted offline

One of the IIC Meeting conducted on Hybrid Mode.

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About IIC Members:

- Prof. C.V. Narasimhulu, Principal, CBIT, President, IIC, Expert in Research and Administration
- Dr. P. Ravinder Reddy, Vice-Presidents, IIC involved in artificial heart development and 4 granted patents and 6 published patents. Guided 24 PhDs.
- Dr. U. K. Choudhury, Convenor, IIC. Ex ED, R&D and CTM, BHEL. He has 38 years of R&D, Corroborate Technology Management and Jointventure Experience in BHEL and has about 16 Plus granted patents and 30 published patents. He has been guiding students for Idea Incubation and participation in Ideathons and Hackathons.
- Dr. N. L. N. Reddy, member, IIC involved in arranging internships in the industry
- Dr. P. Prabhakar Reddy, Dr NarahariSastry, Dr GNR Parsad Member, IIC were the guest speakers for Entrepreneurship and other activities.

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Sonic Aitrtec Systems. Start-up SDG-9, Industry, Innovation and Infrastructure (SI No-27) Mr. UdayBhaskar with the developed model. Model-1 Commercialized. Model-2 with improvements being worked out. Transportation of materials like Wheat, Husk etc using a compressor and blowing cyclone system.



Mr. UdayBhaskar with the developed model. Model-1

The second Start-up 3D Labs India.



Mr. Sreenivas . P, Founder, 3D labs With CBIT while signing the MoU for Start-up Incubation.



Mr. Sreenivas . P, Founder, 3D labs. while Explaining the products.

Third Startup.

The following Pics show Women Safety IOT based device which can be hidden in any accessory. Once the victim triggers the button in a distress situation, it shares the SOS and live location to the emergency contacts. As well as the unique feature of our product is a real-time crime mapping tool to help the law enforcement department. The Team is led by a **woman Entrepreneur Ms. Yamini**. This was also demonstrated to The DIG Police in charge SHE Team, Hyderabad. Twitter snap enclosed.



T. Chaitanya

Professor and Advisor- I&I, CBIT



Sumathi IPS
@SumathiIPS

...

“With technology we can achieve the unimaginable”

It was enriching to interact and guide the team of Women led start-up by @CBITHyd on Women Safety IoT based compact device.

A unique feature of the product is real time crime mapping tool to help the law enforcement.



Product innovation Exhibition Drone for Agricultural Application from CBIT student arranged by TSIC at Police Commissionerate on 15th August 2022. Four products were selected out of 190. Two from CBIT.



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