

Report on Activities of ACIC-CBIT during First Tranche for the year 2022-23

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1. Atal Community Innovation Centre (ACIC)

Atal Innovation Mission (AIM) at NITI Aayog is mandated to promote a culture of innovation and entrepreneurship in India. Until now, AIM has selected a number of institutions for supporting them in establishment of Atal Incubation Centres (AICs) programme. CBIT has also been selected from Telangana by AIM for the establishment of Atal Community Innovation Centre (ACIC) at our Campus. ACIC-CBIT Reserach and Enterpreneurship Foundation has been registered by CBIT as a Special Purpose Vehicle (SPV) under the comapanies Act. The ACIC will provide requisite infrastructure for innovation in the unserved / underserved regions or having potential to build innovation ecosystems in various parts of the country. Thus, nurturing entrepreneurs from the community to help them address various societal challenges. The AIM has sanctioned a grant of Rs. 222.26 lakhs for five years of operation with equal investment from the host Institution.

The objective of the ACIC program is to offer unique and incentivized solutions, whichwill encourage students, researchers or any individual/group of individuals to ideate and esign novel innovative solutions for the communities in and around the Atal Community Innovation Centers. The program would deliver the objectives to ensure

- Nurture innovators to ideate in areas of societal importance
- Design thinking process to spur creativity
- Opportunity for everyone to innovate, ideate and design solutions, irrespective of their age
- Community oriented approach enabling innovative solutions through Community Tinkering
- lab facilities in the Community Innovation Center
- Capacity building of emerging innovators in evolving technologies and designing their innovations from ideation to impactful solutions.
- Partnerships with local industries / institutions in problem solving through innovative offerings in terms of products, services and processes and identifying innovation challenges
- Public Private Partnership (PPP) to enable support for financial sustainability and
- encourage participation of central agencies, PSUs, other legal entities etc. to mobilize resources for running the program
- INCUBATION CENTER at CBIT encourages and mentors ideas from diverse domains. 28 Nos. Start-ups/Idea Incubation are being mentored at ACIC-CBIT for their Idea Incubation and product development. Three Women Entrepreneurs is being supported.
- 12 Outreach programs were conducted to address the issues faced by the communities of the Villages with innovative solutions by CBIT's students and also to involve the youth and students of the community during the development.
- A makers space Laboratory is also established to help innovators and start-ups to convert their Idea to product.

ACIC CBIT encourages and mentor's ideas from diverse domains as mentioned below

- Agricultural Farming
- Water, Sanitation and Solid-Liquid Waste Management
- Waste heat Recovery Systems
- Indian Traditional Knowledge system-based products.
- Bio Technology and health monitoring systems and products
- COVID-19 related solutions and products.
- New technology and process for enhancing literacy rate in villages.

- Virtual lab creation and education related applications.
- Building Materials/Construction Technology
- Renewable Energy and Environmental sustainability
- Energy conservation, Energy efficient Motors and Equipment
- Electric Mobility
- Emission Control Systems and products
- Solar Photovoltaic systems and design optimisation
- Information & Communication Technology (ICT)
- Application of Artificial Intelligence and machine Learning for product/process
- Bloch chain related solutions.
- Additive Manufacturing
- Cyber Security
- Drone Technology
- Other emerging areas of social / national importance

2. SDG'S Sustainable Development Goals







Targeted SDG's of ACIC CBIT as suggested by AIM, NITI Aayog



What's the goal here: To ensure healthy lives and promote well-being for all at all ages.

Why: Ensuring healthy lives and promoting well-being is important to building prosperous societies

What's the goal here: To build resilient infrastructure,

promote inclusive and sustainable industrialization and foster innovation

Why: Economic growth, social development and climate action are heavily dependent on investments in infrastructure, sustainable industrial development and technological progress. In the face of a rapidly changing global economic landscape and increasing inequalities, sustained growth must include industrialization that first of all, makes opportunities accessible to all people, and second, is supported by innovation and resilient infrastructure.





What's the goal here: To make cities inclusive, safe, resilient and sustainable

Why: In the world's cities faced worsening air pollution, inadequate infrastructure and unplanned urban sprawl. Successful examples of containing COVID-19 demonstrate the remarkable resilience and adaptability of urban communities in adjusting to new norms.

3. Details of the Activities for the First Tranche

3.1. Start-ups Idea Incubation Details

Innovator /Team/Startup Name	Category	Scale	TRL	Sector	Produts/Description
Agro Cool Kart	Startup	Prototype	4	Agri Tech	Solar-powered push kart for vegetable vendors
Agrowtex	Student Innovator	Prototype	3	Agri Tech	Developing an IoT , embedded and deep learning based model that helps in monitoring various aspects of agri and also helps us to maintain fertility, pests , salinity, nutrients, etc
Ameya	Startup	Coworking	4	Tech	
Bandi Harshit	Grassroot Innovator	MVP	6	Livelyhood	Sweeping and floor cleaning solar conveyor 2 in 1 machine
Chaaya	Startup	Prototype	2	Services	Video making company- CSR
Chitoplatics	Student Innovator	PoC	1	Sustainabilit y	Converting floral waste into value added products
Dhaanyagunah	Student Startup	Prototype	5	Agri Tech	Miniature Portable Fast Paddy dryers at low cost for small scale farmers with real time temperature and moisture monitoring.
ElectronWiz	Virtual	Scaling	8	Ed Tech	Development skilling building workshops on the latest technologies
Hairogreen	Student Innovator	PoC	1	Sustainabilit y	Developing a method for using hair in fertilizers
I-Care Foundation Telangana	Grassroot Innovator	Scaling	7	Services	Working on creating a network and a subscription-based system to bridge the Gap Between the Patient And Doctor, allowing to Choose the Right Doctor in Tier 2 Cities, reducing waiting time at low-cost Doctor Consultation Fees.
Ishavasya Solutions	Startup	MVP	3	Sustainabilit y	Developing a cloud-based platform for ESG tracking and reporting, aiding clients in diverse sectors to monitor sustainability, achieve ESG goals, and produce comprehensive reports. They use tech and data analytics to enhance sustainability and ESG performance, showcasing commitment to sustainability.
Low Cost Bricks	Student Innovator	Prototype	3	Sustainabilit y	Developing a method of using waste plastic bottles in construction which helpful in reducing plastic pollution and cost for construction.
Octacleaner	Student Innovator	Prototype	4	loT	Developing an underwater robot that can go deep into the water and collect trash from within. Octopus gripping technology is used to collect macro trash and Muck cleaner is used to collect microplastic, Muck, and organic waste.

Padverse	Student Startup	MVP	3	Sustainabilit y	Padverse provides an end to end ecosystem where individual bins are placed at each washroom to collect & segregate the menstrual waste, service to clear the waste at source level, and innovative technology that will disinfect the waste and recovers material from it.
Ramekar Innovations	Startup	Prototype	5,1,2	Health Tech	(1) Automated Blood Analyser (2) A wearable seizure detection device
Satyanarayana Reddy	Grassroot Innovator	MVP	6	Livelyhood	Onion garlic and fried groundnuts peal removal machine
Silicon Squadron	Startup	Prototype	5	i loT	A loT based women safety device
Startegy-M	Startup	Scaling	8	8 Services	Upskilling for school students.
Switch Phone	Startup	MVP	5	Health Tech	Connecting the elderly to Hospitals and pharmacies in less than a minute. Fast connection and Certainty of service is the Key motto.
Token Disc	Startup	PoC	3	Fin Tech	Token Disc is a full-fledge Crypto Currency exchange that will transform this space by introducing a proper Academy, first ever crypto index, various savings plans, pre-established crypto baskets, derivatives trading and a well suited user interface.
Traverse	Student Innovator	Prototype	4	loT	Developing an object detection system to calculate the relative density of traffic to control traffic dynamically
TRUSS	Student Startup	MVP		5 Ed Tech	Truss is a student-exclusive platform, connecting young entrepreneurs (18-24) with startup ecosystem stakeholders. We facilitate student entrepreneur matchmaking and offer educational modules on entrepreneurship for rural communities.

3.2 Start-ups IPR (4 IPR's have been filed)

SI. N o.	Name of the IP	Categor y of the IP	Description of the IP	Date of entering the details	Status
1	Introduction of AR, Holographic Displays in Education	Patent	Education is the primary foundation block for empowerment among children. In the last decade, education standards have evolved rapidly in urban areas compared to rural areas. Urban always had an upper edge through ease of access to technology. Students often pick various learning strategies to understand the concept better	29-09- 2022	Filed
2	TRUSS	Patent	Truss is a student-exclusive platform, connecting young entrepreneurs (18-24) with startup ecosystem stakeholders. We facilitate student entrepreneur matchmaking and offer educational modules on entrepreneurship for rural communities	29-09- 2022	Filed
3	Orange Squadron – Women Safety Device and Cloud based Crime Mapping Tool	Patent	Orange Squadron is a cost effective IoT based digital assistant device integrated with a smartphone through an app for women safety and the data collected from the app acts as a crime mapping tool for the Law Enforcement Agencies. When the victim is in danger she can trigger the IoT tactical push button for 3 seconds, it will send SMS mobile alert to Family/Friends/Emergency Rescue Team with her live location and key medical details like blood group, diabetic condition, blood pressure, medical allergies, and medical insurance policy #. The data from the smartphone app is integrated securely into Cloud for real time crime mapping data tool to help the Law Enforcement Agencies to scrutinize the SOS alert messages to know the crime occurring locations/time of SOS trigger for taking preventive and corrective measures to make cities/rural areas smart, safe and sustainable.	29-09- 2022	Filed

4	NIRBHAYA –	Patent	This is a device used for women's safety. It	29-09-	Filed
	2020 (WOMEN		was developed by using NANO technology	2022	
	SAFETY DEVICE)		and is based on SIM technology. And this		
			device is useful even in the situation of		
			network failure and it is also a user friendly		
			and portable. This is a unique device which		
			can also be operated with voice recognition.		

3.3 Community Outreach Program

Sl. No.	Date	Event Name	Events Description	Event Photos & Report Links
1	18-06-2022	Community Outreach to Anthapaguda & Ravulapalli	Meeting with Sarpanch and Panchayat officers of both Anthapaguda and Ravulapalli villages and explained them about ACIC CBIT and the opportunities provided by the innovation center to bring innovation and entrepreneurship culture in the community. The leaders of few Self Help groups and Youth associations were also present in the meeting	
2	21-06-2022	Outreach Program to Gandipet Welfare Society	Visit to Gandipet Welfare society to understand the good work they are doing in waste management in gandipet and surrounding community. We spoke on the technologies and processes they use in handling dry waste, wet waste and reject waste. We also explored synergies in doing joint outreach programs to communities in bringing awareness about waste management and best practices	
3	22-06-2022	COP & Capacity Building Program to Ravulapalle Village	Community Outreach Program to Ravulapally, Shankarpally Mandal, RR Dist. to understand the skill requirements of SHGs, Women and Youth & Problems in the Community. Team also visited Govt. School to teach Design Thinking in Vernacular Language (Telugu) to create awareness towards Innovation.	<image/>

4	24-06-2022	Community Outreach Program to Vikarabad	Community Outreach Program to Vikarabad with District Medical Health Officials to understand the problems faced by the community & Officials. The event was Collaboratively conducted by ICMR- NIN, Dept. of Health, Medical and Family Welfare and RICH, Govt. of Telangana. The program was attended by Health dept supervisor staff Community health officers Health Educators Public Health Nurses MPHEO : Multi purpose health extension officers MPHS : Multi purpose health supervisors (male & female) MPHA : Multi purpose Health Assistants (only female) ICDS : Integrated child development scheme (CDPO's : Child development project officers, Supervisors) District Medical and Health Officer Counselor, Vikarabad	<image/>
5	25-06-2022	Community Outreach Program to Ootpalle	Community Outreach Program to Ootpalle village to understand the skill requirements of SHGs, Women and Youth. We have gathered sarpanch, village officers, SHG leaders, and other association leaders to explain about ACIC CBIT and how it helps in creating innovation & entrepreneurship ecosystem	

6	01-07-2022	Community Outreach Program to Parigi	Community Outreach Program to Parigi to do village survey, understand the problems faced by the villagers, any rural innovations to solve local problems, skills required to enhance the skills for the betterment of livelihood and explained the role of ACIC CBIT	
7	06-08-2022	Awareness & Brainstorming sessions about TSIC Intinta Innovator Program	To bring awareness among students, Innovators and startups to promote the participation for the Intintia Innovator program, conducted at BITS Warangal by ACIC CBIT and TSIC	
8	13-08-2022	Community Outreach Program Gopularam	Community Outreach Program at Gopularam, Shankarpally Mandal, RR Dist. in association with the Chemical Department CBIT to conduct the survey on the skill requirements & Meeting Leaders of the village to understand the livelihood and initiatives on the progress of the village and to create awareness towards Innovation.	

9	17-08-2022	Community Outreach Program at Ravulapalle Village	ACIC CBIT has conducted the Community Outreach Program at Ravulapalli, Shankarpally Mandal, RR Dist in association with Biosephia (Startup in Waste Management) and chemical dept cbit. Outreach program was focused on Segregation of Dry and Wet waste, also briefed on waste to wealth avenues	<image/>
10	25-10-2022	Community outreach program at Masaniguda	ACIC CBIT had visited Masaniguda, Shankarpally mdl as a part of community outreach program in association with the Department of Management studies. The visit was focused on meeting the Sarpanch and other secretaries which inturn will help in addressing the Villagers, Youth and self-help groups, followup visit is planned on 10th Nov 2022.	<image/>
11	10-11-2022	follow-up visit to Masaniguda to as a part of Community Outreach Program	ACIC CBIT had re-visited Masaniguda village on 10-11-2022 in association with the Department of Management studies. The visit was focused on meeting the SHG's (Self Help Group), Youth and School students to conduct the skill development/Awareness program. ACIC CBIT staff, Two Faculty members from SMS dept along with HoD had visited the village	<image/>

3.4 Ideathons

S. No.	Date	Event Name	Ideathon Link
1	08-07-2022	Ideathon (Agri Aavishkar)	<complex-block></complex-block>
			Image: State Stat

3.5 Capacity Building Program

S. No	Date	Event Name
1	19-07-2022	Capacity Building Program on UAVs & UGVs
2	15-08-2022	Initinta Innovator In association with TSIC
3	17-08-2022	Capacity Building Program at Ravulapalle Village in association with Biosephia (Startup in Waste Management) and chemical dept cbit
4	25-08-2022	Capacity Building Program at Ravulapalli to educate and to create awareness among the School children by training them the basic computer skills and Basics of Unmanned Ground Vehicle (UGV's)
5	16-09-2022	ACIC CBIT in collaboration with TSIC has organized an Innovators bootcamp - focusing on capacity building helping innovators in finding their calling to Entrepreneurship
6	19-10-2022	ACIC CBIT has participated in the event at TSIC named "Pitch in the Ring - మన innovators కథలు" , celebrating the journeys of Rural Innovators on 19th Oct 2022 from 3.00 PM onwards at T-Hub
7	11th and 12th of November 2022	Two days Bootcamp for aspiring entrepreneurs on the 11th and 12th of November. The session was curated for entrepreneurs associated with ACIC-CBIT, with sessions on Idea to Prototype development, IPR, Prototype to market-ready product development, Basics of pitching, Understanding Fundraising, and many more

3.6 Knowledge/Training Session

S. No	Date	Event Name	
1	09-07-2022	Community Innovator Fellowship Board Meeting	
2	19-09-2022	ACIC, Atal Innovation Mission Program Director's visit	
3	23-09-2022	Knowledge Session ACIC Ramachandra College of Engineering Eluru	
4	03-10-2022	Online Discussions with the Telangana State Innovation Cell on the upcoming Telangana State Innovators Expo 2022	
5	15-10-2022	ACIC CBIT had organized a session to celebrate the "Innovation Day" on occasion of Dr. A.P.J. Abdul Kalam's birth Anniversary on 15th October 2022	

Details of the Community Innovator Fellow (CIF)				
Name:	Ambica Maroju			
Age:	32			
A short Bio:	Ambica Maroju is B.Tech in CSE and M.Tech in Bioinformatics. She used to work as Data Analyst at St. Jude Medical and with a startup Evolv3D as BDM. She has currently started Akinian Crefac Pvt Ltd.			
Sector of the idea:	Health care and well-being (SDG 03)			
Joining Date:	27-07-2022			
Current Phase:	Graduated			
Phases completed	ses completed Selection, Awareness & Onboarding, Orientation, Mapping of SDGs completed. Research (Phase 4), Graduated			

5. Makerspace and Sector Specific Equipment

S No	Equipment	Lab	
1	UGV and UAV	Sector Specific Lab	
2	3D printer	Makerspace Equipment	
3	Digital Storage Oscilloscope	Sector Specific Lab	
4	Power analyser with Accessories	Sector Specific Lab	
5	Thermal Imaging Camera	Sector Specific Lab	
6	IOT Equipment	Sector Specific Lab	
7	Mixed Signal Oscilloscope Sector Specific Lab		
8	Laser Cutter	Sector Specific Lab	
9	Work Table with Hand tools	Makerspace Equipment	
10	Benchtop Multimeter	Makerspace Equipment	
11	Signal Generator	Makerspace Equipment	
12	Power supply equipment	Makerspace Equipment	
13	WIN tech Software	Makerspace	

6. Budget for the First Tranche Upto December 2022

Budget of CBIT-Rs 66.6 lakhs; Budget of ACIC-62.5632 (out of 63.84 lakhs); Total-Rs.130.44 lakhs

S.No	Things	Budget (Rs)	Nos	Remarks
Non-F	Recurring Expenditure			
1	ACIC furnishing space	15 Lakhs *	One set	*Cabins to be made, no budget allocated. Host Institution to provide as per the guideline. Rs 10 Lakhs plus by CBIT.
2	Computers and laptops with licensed software	10lakhs	14 Nos.	Only first year budget allocated-10lakhs
3	Furniture	5 lakhs	As per Requirement	First year -51 Second year-3.5 lakhs
4	Fab lab/Makerspace lab	17.5 lakhs	As per Requirement	First year-19.5 lakhs Second year-4 lakhs
5	Sector specific equipment	17 lakhs	As per Requirement	First year-20 lakhs Second year-20 lakhs
Recur	ring Expenditure		-	
6	Center Incharge	Rs 15.00 Lakhs	01	
7	Young Professional	Rs 5.7 Lakhs	01	
8	Makerspace coordinator	Rs 3 lakhs	01	
9	Marketing coordinator	Rs 1.2 Lakhs	01	
10	Accounts	Internal CBIT Support	01	Under Miscellaneous charge
11	Ideathons	8lakhs	4	Being planned to be conducted starting
12	IP Awarenes	3.25 lakhs	2	from 20 th of June, 2021.
13	Capacity building programs	8 lakhs	4	
14	Outreach events	10 lakhs	12	
15	Fund raising events	3 lakhs	2	
16	Support services	3.5lakhs	44 people support(37+7)	to Startups / Innovators (such as technology, IPR legal, accounting, marketing, etc. support)
17	Domestic travel	2.19 lakhs	As per Requirement	
18	Utility and maintenance	1.9 lakhs	As per Requirement	
19	Miscellaneous	1.2 lakhs	As per Requirement	
20	Innovation funding	10 lakhs	As per AIM Approval	
Grand Total Rs. 140.44		Rs. 140.44		Includes Rs 10 lakhs Furnishing Expenditure

Note: **Rs 66.6 lakhs has already been deposited by CBIT** in the ACIC-CBIT account and **Rs. 62.5632 Lakhs received as grant from AIM**. Rs 140.44L-*Rs 10 L = Rs 130.44L is planned to be utilized (max) from the ACIC-CBIT Budget during First Tranche Operation.

Start-up Prototype demonstration with ADGP & DIG Women Safety Wing, Telangana Police

ACIC-CBIT incubatee "orange squadron" had an opportunity to present their innovation- IoT based women's safety device to the Telangana state women safety Wing. Orange Squadron is a low-cost IoT digital device for women's safety. When a victim encounters an unexpected criminal emergency, they can "press" the device's trigger button or activate it with a voice command. This device can be programmed to send an SMS/SOS alert message to family members and emergency responders such as police in order to prompt immediate action. A proactive response and timely alert can aid in the prevention of violence and the safety of citizens. The prototype is currently being modified to accommodate real-time use cases and to make it more efficient. The breadboard model is fully functional. Recently, the model is shown to Smt. Swathi lakhra IPS additional DGP and Smt Sumathi B IPS DIG for their valuable input to enhance the product. The updates were given to the principal professor P. Ravinder Reddy and principal congratulated the entire team.



Photographs, Snapshots & Newspaper Clipping during various events



MARKET INFO



ACIC-CBIT incubatee 'Orange Squadron' had an opportunity to present their innovation- IoT based women's safety device to the Telengana state women safety Wing. Orange Squadron is a low-cost IoT digital device for women's safety. When a victim encounters an unexpected criminal emergency, they can 'press' the device's trigger button or activate it with a voice command. This device can be programmed to send an SMS/ SOS alert message to family members and emergency responders such as police in order to prompt immediate action. A proactive response and timely alert can aid in the prevention of violence and the safety of citizens. The prototype is currently being updated to accommodate real-time use cases and to make it more efficient. Recently, the model was shown to Sawthi Lakhra. IPS, Additional DGP and Sumathi B, IPS, DIG, for their inputs and will be implemented to enhance the product. The updates were given to the principal, professor P Ravinder Reddy. Principal CBIT congratulated the startup and ACIC team.

JBIET WELCOMES FRESHERS

JB Institute of Engineering and Technology, Moinabad, Rangareddy district celebrated orientation day program for 1st year B. Tech students on recently. The program



Secretary JB Educational Society, Chief Guest Naveen Mittal, IAS, Commissioner Technical Education, Government of Telangana and Guest of Honour Brahmachari Sathya Chaitanya, Ramakrishna Math, Hyderabad. The other dignitaries present on this occasion were Dr. P. C. Krishnamachari, Principal, JBIET and Dr. Srinivasa Rao Principal BEC. Speaking on this occasion, J. V. Krishna Rao secretary JBGEI stated that all big journeys start with small step. He congratulated the students for taking admission in JBIET which is now celebrating 25 years of excellence. Dr. P. C. krishnamachari Principal, JBIET ensured best education in holistic environment to become good human beings.

SNATAK - CONVOCATION HELD AT SSIM



Siva Sivani Institute of Management held its 27th Convocation (Snatak) recently for its PGDM students where 160 graduates received PGDM certificates from the institution. As a part of the ceremony, Siva Sivani Group of Institutions founder SP Sampathy's statue was unveiled by Dr. S. Pratap Reddy, Founder Chairman, Dhruva College of Management; Srinivas Pappu, Sr. Vice President, Axis Bank and Aarathi Sampathy, President and Chief Executive, Siva Sivani Group of Institutions. Dr. Sailesh Sampathy, Vice president and Deputy CEO, Siva Sivani Group of Institutions welcomed the gathering. In his speech, he congratulated the graduating students and announced that a brand new state of the art building will be constructed for SSIM shortly. Deepika Sampathy, Associate Vice President, SSGI, introduced the key note Speaker. Dr S V Ramana Rao, Director SSIM presented the Academic Report and outlined the various achievements and activities of the institute.

CONVOCATION FOR ETHAMES COLLEGE STUDENTS HELD

EThames College, Hyderabad organized its annual convocation for the graduating batch of 2019 at The Park Hotel, Hyderabad recently. This convocation witnessed the participation of graduating students from various programs such as BBA, BCom (General), B.Com (Computer Applications), B.Com (Foreign Trade) and B.Com (Advertising, Sales Promotion & Sales Management). On the occasion, toppers of various programs and their parents were also felicitated. The event was presided by Kali Prasad Gadiraju, Chairman of EThames College. Chief guest Suresh Reddy, Chairman, Brightcom Group, Hyderabad has delivered the convocation address. Dr. Kunal Gaurav, Principal, EThames College presented the college report and elucidated the magnificent journey of EThames College, Hyderabad since inception.

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