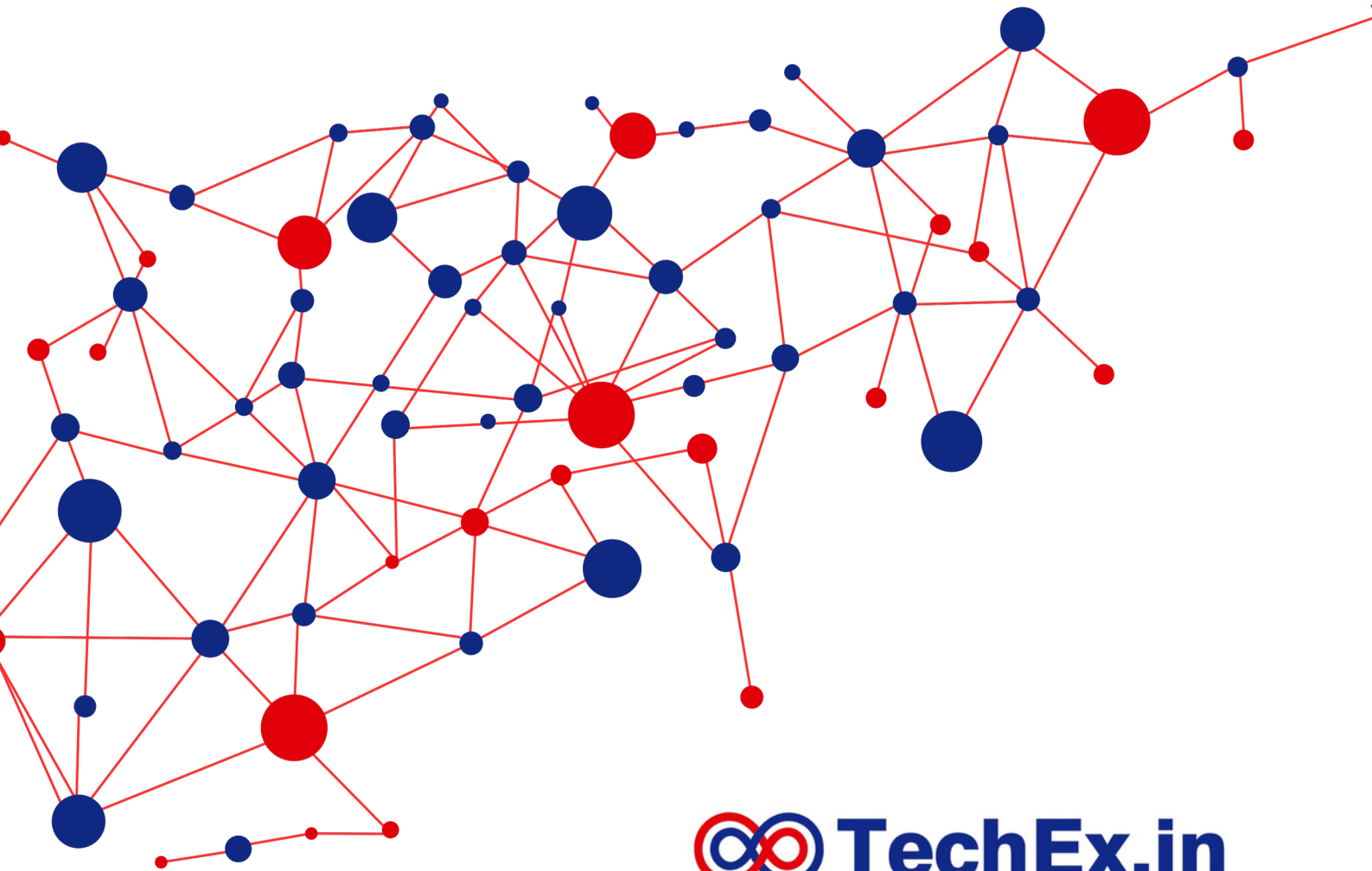


ACTIVITY & IMPACT

REPORT

Mar '20 to Dec '24



 **TechEx.in**

Tech Transfer Hub at Venture Center
Supported by NBM - BIRAC

Edits & Design: Sharvari N, Vedang P & Kirti D have edited, compiled & contributed to the designing and visual representation of data in the report

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Notes: The data in this report reflects activities from 18th March 2020 to 31st December 2024



Activity and Impact Report (March 2020 – December 2024)

Hosted by



Supported by



Highlights & Achievements

160+

Invention Disclosures

95+

Unique IN patents
filed

100+

Trademarks and
Industrial Designs filed

175+

IP Advisory
Services given

₹ 22 lakhs+

Funds disbursed as support for IN and PCT filing under IP & Technology Management Cell (IPTMC) Committee

1

Business
Valuation
Exercise
Completed

75+

Technology
Marketing
1-pagers
prepared



80+

Collaboration
Agreements
Facilitated

7

Technology
Showcases



44

Technology
Pitches

35+

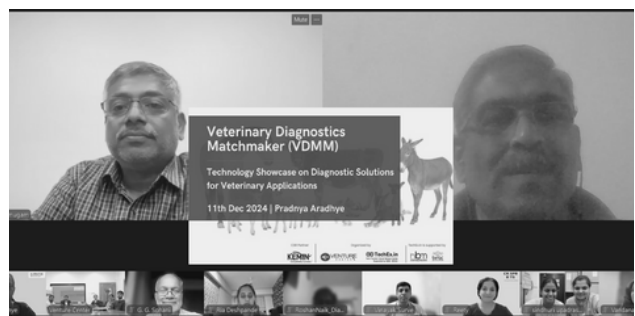
Technology
Transfer Initiatives
facilitated

23

Industrial Problem
Statements for
which
Technologies
Scouted

**₹ 34
lakhs**

Revenue from
TechNet



6

Spinouts



120+

New Venture
Creations
Supported

Highlights & Achievements

75+

Assets on TechEx.in
Technology
Database

58

Partnerships with Technology
Development Organizations

20+

Scientist Capabilities
Featured

135+

Awareness
Events



75+

Workshops and
Training Events

6.3/7

Feedback Rating
for Events and
Training



7500+

Events and Training
Beneficiaries

70+

Unique
Speakers



60+

Educational
Videos on
YouTube

1300+

Hours of Watch
Time on YouTube

200k+

Twitter Impressions

1300+

LinkedIn
Connections



15

Team Members
Trained in
Technology
Transfer



3

Registered
Technology
Transfer
Professionals



Our Impact

Bio CNG from ligno-cellulosic waste for deployment under the National SATAT program:

TechEx.in played an important role in finalizing the term sheet for know-how transfer, deal structuring, and agreement drafting, thereby facilitating the collaboration between MACS Agharkar Research Institute (MACS-ARI) and GPS Renewables (GPSR) for the advancement of technology related to enhanced anaerobic digestion and biogas generation from rice straw. The collaboration, formalized through



Spin-out creation facilitated by TechEx.in



Spinning out of technology for novel at rechargeable batteries:

Scientists CSIR-NCL have developed a laboratory scale prototype rechargeable battery with indigenous technology based on patented hard carbon material and sodium compounds. Techex.in facilitated the process of spin-out creation by conceptualizing and putting in place Express License Agreement (standardized agreements to fast-track decisions and actions) for spin-out creation. Rechargion, the spin off, aims to address energy security issues in India and has developed a sustainable alternative to lithium batteries, particularly in the electric mobility sector. Their sodium-ion

technology boasts advantages over lithium-ion, such as zero-voltage storage, faster charging, wider temperature range, and improved capacity. This technology aligns with the National Mission on Transformative Mobility and Battery Storage, contributing to clean and sustainable mobility initiatives in India. Recognized for their contributions, Rechargion has received awards, including the Ignition Grant and recognition in clean energy innovations. The licensing success has enabled them to secure over a million dollars in funding for further market advancements.

Our Impact

A non-invasive bilirubin measurement with device:

MedBlue Innovations, support from the Venture Center's Proto Alpha developed measurement device to address the global healthcare challenge of severe neonatal jaundice. Health care providers worldwide acknowledge neonatal jaundice as a "silent" cause of significant morbidity and mortality in newborns. In parallel, TechEx.in played a vital role in collaborative agreements, development,



Therapeutic intervention device for improving bone mineral density in the lumbar spine of patients:

RegenOrtho, with support from the Venture Center's Proto Alpha Accelerator, successfully developed a designed and developed the device to address the problem of low bone mineral density in the lumbar spine of patients because of parallel, TechEx.in played a vital role in facilitating collaborative agreements, including joint development, shareholding, and licensing agreements between Venture Center and RegenOrtho.

In The know how transferred to RegenOrtho has enabled the startup to work on the vibrational device prototype to address the problem of low bone mineral density in the lumbar spine of patients. This device when ready will help the patients to cope with low mineral density issues without any pharmacological intervention. This knowhow formed the basis for RegenOrtho to develop the first prototype leading to raising of funding for further advancement of the product.

Our Impact

A device for response speed and successfully measuring effectiveness of rehabilitating patients developed by Taviicare, with support from the Venture Center's Proto Alpha Accelerator

During rehabilitation of patients with brain injury or stroke, measurement of response time, performance and monitoring its change over time has important implications for the treatment. Measurement of response time also plays an important role in sports training for players involved in fast action sports. The knowhow for the response measurement

board has been developed by EDC and its technical partner. In parallel, TechEx.in played a vital role in facilitating collaborative agreements, including joint development, shareholding, and licensing agreements between Venture Center and Taaviicare. This knowhow transferred to Taaviicare has enabled the startup to develop the prototype of the measurement board. In future this measurement board can be used routinely by neurologists/ physiotherapists during the rehabilitation program of the brain injury or stroke patients to decide the treatment which would in turn lead to their recovery.



MH12 High Quality Aerosol Filtration Face Masks

Designed, manufactured and tested N95 masks that met the relevant ISO standards. The project was initiated to solve the shortage of good quality N95 masks for frontline workers during the COVID-19 pandemic. The project was executed in a record time of four months (May-Aug prototyping, manufacturing manufacturing 2020) including design, a and government testing, setting up facility it. All hospitals, defense hospitals and other frontline

workers were not able to procure high quality masks because of the long tender processes and also due to unavailability of sufficient N95 masks. These frontline workers were most at risk of getting infected. Pune city alone reported 162182 deaths due to COVID-19 in the first wave. Here is where Pune Masks Action Group stepped up and distributed 1 Lakh high quality MH12 masks free of cost to the frontline workers in Pune during the first wave of COVID-19 in Sep 2020. TechEx.in facilitated the Creative Commons License, thereby facilitating mass manufacturing.

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Foreword by Raj K Shirumalla



Raj K Shirumalla

Mission Director, NBM-BIRAC

TechEx.in is a dynamic Regional Technology Transfer Office (TTO) at Venture Center, Pune, supported by National Biopharma Mission (NBM), BIRAC. At NBM we are committed to promoting a culture of innovation across the country reflected in the diverse range of programs initiated. TechEx.in is one of the seven TTOs supported under NBM across the country. It is a first of its kind initiative in India to set-up nationwide TTO network to bridge the gap between innovators and the industry, facilitating the transformation of cutting-edge ideas into tangible, real-world applications.

Globally, successful innovation ecosystems highlight the importance of a strong and efficient institutional arrangements for knowledge creation as well as dissemination. In an era where innovation and technology drive global progress, the role of TTOs cannot be overstated. This document encapsulates the remarkable strides made by dedicated team of TechEx.in in advancing intellectual property awareness and fostering technology transfer throughout the region. From academic workshops that demystify the intricacies of intellectual property to strategic collaborations facilitating seamless technology transfer, they have made an impactful effort. Together, let us embark on furthering this journey, where innovation knows no bounds, and technology access becomes a cornerstone of progress. I wish the TechEx.in team best wishes for all their future endeavours.

Foreword by Shirshendu Mukherjee



**Shirshendu
Mukherjee**

Mission Director
Program Management Unit,

It was the effort of the DBT-BIRAC-National Bio-pharma Mission where it was decided to establish Regional Technology Transfer Offices (RTTOs) to create the culture of technology transfer and commercialization of the technologies available with the institutions. Realizing the need of the Country, the National Bio-Pharma Mission established 7 RTTOs in different parts of India to cater to the need of the startups, scientists for IP filing, licensing, capacity building and forging Industry-Academia Partnerships. TechEx.in at Venture Center is one of the supported RTTOs which has initiated several activities over a period of 3 years. These initiatives and activities are aimed to target various stakeholders including researchers, students, teachers and start-ups.

As we all are aware that Intellectual Property and Technology Transfer & commercialization plays a critical role for boosting the country's economy, TechEx.in has developed an "Impact and Activity Report" to showcase the impact of the activities which has been generated since its inception. This Report will also generate a roadmap which will give TechEx.in to plan its journey for the next cycle of activities. Wish TechEx.in team all success and good wishes.

Foreword by K Vijayraghavan



K Vijayraghavan
Founder Director,
Sathguru Management
Consultants

Technology transfer involves the process of deploying academic research results to the market. It is a complex process involving organisations with competency in triaging innovations, protecting patents, assessing economic value and transferring to commercialisation partners through licensing. When such innovations are deployed, the impact is enormous due to economic benefits. TechEx.in has accomplished depth and breadth in knowledge transfer in three years. Energising institutions in the local ecosystem and converging innovations for seekers to access with well-articulated value propositions are essential for successful technology transfer. TechEx.in has competent professionals who have excelled in creating value for academic innovations. Knowledge transfer is about the

impact and not just income. TechEx.in has already created an annuity of goodwill with impacts accruing from academic innovations and enterprise partnerships with the potential to improve human lives. The report articulates the activities and the impact through knowledge transfer, enterprise value creation, and innovator-adopter matchmaking diligently pursued by TechEx.in. Best wishes for TechEx.in to excel in its endeavour in the years ahead.

Foreword by Vinita Jindal



Vinita Jindal
DGM & Head-IP &
Technology Management,
BIRAC

Intellectual Property and Technology Transfer are the key strategic resources for universities/institutions as well as for start-ups and industries. In order to manage these strategic resources, the Technology transfer Offices play a crucial role in licensing, patenting, creation of business and facilitating collaboration between university researchers and possible licensing companies.

TechEx.in, a Regional Technology Transfer office (RTTO), is supported by the National Biopharma Mission with the mandate to support the commercialization of technologies, forge Industry-Academia Partnerships and provide opportunities for academia to translate knowledge into products and technologies.

Over the three years, TechEx.in has been instrumental in building an ecosystem for researchers, inventors, innovation managers, students, industries and start-ups by designing and initiated several activities & services for technology commercialization. Activities initiated include such as TechNet program, support for intellectual property protection and advisory & consulting services, just to mention a few. Further, TechEx.in facilitated the funding of technology transfer trainings for innovation managers to build the pipeline of technology transfer professionals.

The "Activity and Impact report" created by TechEx.in is a reflection of the work and initiatives which has been taken-up to kick off the culture of technology transfer.

Foreword by Ashley Stevens

I am delighted to introduce this important report documenting the considerable economic impact TechEx.in has already had in its short existence. I have had the privilege of working with Dr. Premnath and his team for over 3 years now and have seen how they have progressively grown their activities, adding new programs and always looking at the impact their programs are having on the local and national ecosystem. I attended a meeting of all the BIRAC supported Regional Technology Transfer Offices in New Delhi in November and it was clear to me that TechEx.in is recognized as one of the leaders of the network.

I wish them well in their continued activities and hope that BIRAC and the Government of India keep supporting the network for the time needed for the individual offices to reach self-sustainability.



Ashley Stevens
President, Focus IP Group;
Consultant, CARB X

Foreword by Vilas Sinkar



Vilas Sinkar

Ex VP R&D - Unilever

TechEx.in, a dynamic entity at NCL Venture Center, has been working to bridge the gap between laboratory discoveries and industry-relevant technologies. Their dedicated team has employed various methods to identify potential technologies and facilitate connections between inventors and industry stakeholders.

I am encouraged to witness concerted efforts aimed at forging academia-industry partnerships, which are crucial for India's long-term economic prosperity and wealth creation.

I hope that BIRAC will continue to strengthen this initiative, recognizing that fostering a culture of

trust and interdependence between academia and industry requires substantial effort until a self-sustaining momentum is achieved.

I would like to express my gratitude to BIRAC, NBM, External Advisors, Mentors, and NCL Venture Center for their unwavering support. Additionally, I extend my best wishes to the exceptional team at TechEx.in as they forge grand alliances between academia and industry, leading to the creation of impactful innovations for the nation and society at large.

Foreword by Premnath V

At the heart of Venture Center's mission is the task of creating societal and economic value from knowledge. It is clear that this mission will not be achieved in scalable and sustainable ways without the win-win partnerships between knowledge and know how creators (academia and R&D institutions) on one side and value creators (startups and industry) on the other side. And that is the mission of TechEx.in – create win-win partnerships in technology commercialization. We are grateful to NBM and BIRAC for giving us this opportunity to host a RTTO and contribute more effectively to our mission! We are proud of the TechEx.in team and their sustained efforts!



Premnath V

Director, Venture Center

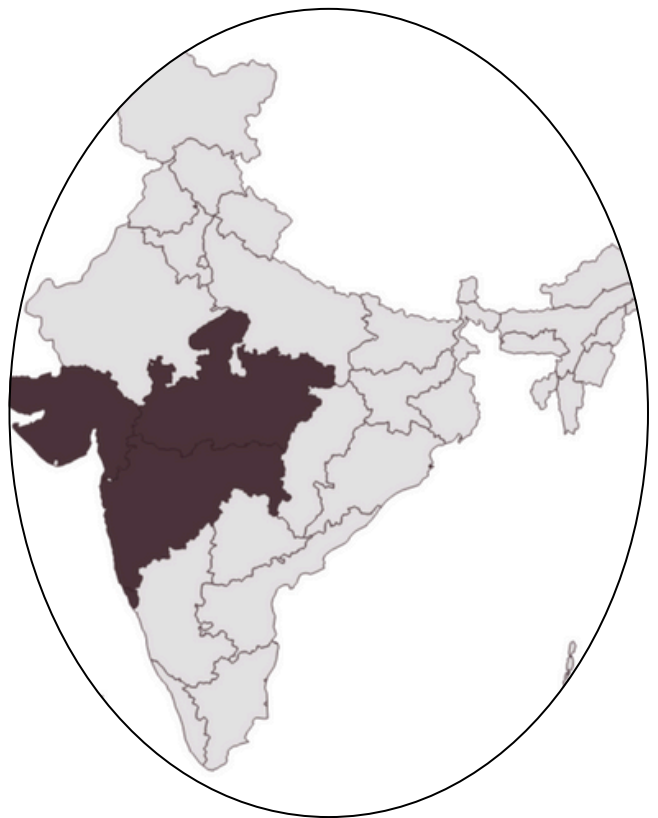
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About TechEx.in

TechEx.in aims to help technology developers and technology commercialisation entities find each other, forge partnerships and advance the technology closer to the market in a win-win partnership.

TechEx.in is based in the western part of India. From March 2020 till March 2024 its focus was on research organisations in Maharashtra, Madhya Pradesh, Gujarat and Goa. Since then, the focus has broadened to welcomes technology developers and technology commercialisation entities from any part of the world.



Partners

TechEx.in is hosted by Venture Center

Venture Center is a technology business incubator specialising in technology startups offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering.



Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the "Pune region" in India. Venture Center aims to empower and enable scientists and engineers in pursuing technology, innovation and entrepreneurship objectives.

TechEx.in is supported by NBM-BIRAC

National Biopharma Mission (NBM) is a Mission of the Government of India approved by the Cabinet for implementation in May 2017. The NBM's mission is to make India a hub for design and development of novel, affordable & effective biopharmaceutical products and solutions. The NBM has an allocation of US\$ 250 million and is jointly funded by the Government of India and the World Bank in equal measure. The NBM is officially known as "An Industry-Academia Collaborative Mission of Department of Biotechnology (DBT) for Accelerating Early Development for Biopharmaceuticals"; Biotechnology Research Assistance Council (BIRAC) is the implementation partner of the Government of India for the Mission.



Biotechnology Industry Research & Assistance Council (BIRAC) is a new industry-academia interface and implements its mandate through a wide range of impact initiatives, be it providing access to risk capital through targeted funding, technology transfer, IP management and handholding schemes that help bring innovation excellence to the biotech firms and make them globally competitive.



Governing council

The responsibility of the governing council is to periodically review and monitor the progress of the NBM supported RTTO project at Venture Center. Additionally, provide high level guidance and strategic inputs to the project team, assist the executing team with any referrals or linkages as needed, and recommend project reports and fulfill other requests (as needed) by NBM.

Current Members



Vilas Sinkar

Chair

Retd. VP R & D,
Unilever



Vinita Jindal

Member

DGM and Head, IP &
Technology Management,
BIRAC



Premnath V

Co-Chair

Director,
Venture Center



Vinita Panchanadikar

Member

Ex. Chief Scientist,
IP Group, CSIR- NCL



Ashley Stevens

Invitee & Advisor

President, Focus IP Group;
Consultant, CARB X



Manisha Premnath

Member COO,
Venture Center



Poyini Bhat

Member

Startup Advisor



Vidula Walimbe

Convener

Associate Manager,
Innovation Mgmt,
Venture Center

Past Members



Mirage Singh

Member



Sanchita Chaudhary

Member

IP & Technology Management Committee

The purpose of the Intellectual Property & Technology Management Committee (IPTMC) is to review investment proposals (for awards/ grants), approve or ratify decisions as appropriate and generally provide guidance to the TechEx.in team on matters relating to awards/grants towards statutory costs associated with Indian Patent Filings and PCT Filings. The committee's responsibilities include reviewing and suggesting grant policies, approving proposals, identifying deserving cases, and periodically reviewing grant investments. They prioritise proposals that enhance the profile of TechEx.in and West zone and focus on success metrics during portfolio reviews.

Current Members



Vinita Jindal
DGM and Head, IP & Technology Management, BIRAC



Manisha Premnath
COO,
Venture Center



Archana Joshi
Associate Manager,
IP Services,
Venture Center



Premnath V
Director,
Venture Center

Past Members



Vinita Panchanadikar



Tanvi Rangwala



S Srisunder



Hardeep Vora

Consultants & mentors

Experts from India and the USA consult and mentor TechEx.in, offering guidance on a range of topics including technology transfer, valuation, spinouts, intellectual property strategy, technology marketing and licensing, industry interface, open innovation, industrial tech development and venturing.

International Mentors



Ashley Stevens (Currently in Boston)
Consultant, CARB X; President, Focus IP Group; Ex-President, AUTM; Boston University
Advisor for Technology Transfer, Valuation, Spinouts



Jaya Murthy (Currently in Philadelphia)
Global IP Leader, LANXESS; Ex DuPont, GE, Chevron, Eaton
Advisor for Intellectual Property Strategy



Kaushik Gala (Currently in Iowa)
Research Scholar, Ex CBO of CSIR-Tech, Accelerator India, TCS, IPValue, Freescale
Advisor for Technology Marketing, Licensing, Valuation

Indian Mentors



Vilas Sinkar (Currently in Mumbai/Pune)
Retd. VP R & D, Unilever
Advisor for Industry Interface, Open Innovation, Industrial Technology Development



Premnath V (Currently in Pune)
Director, Venture Center
Advisor for IP Strategy, Tech Marketing, Venturing



Vinita Panchanadikar (Currently in Pune)
Advisor, Venture Center, Venture Center
Advisor for Intellectual Property, Technology Transfer

NBM-BIRAC program managers



Vinita Jindal
DGM and Head,
IP & Technology
Management, BIRAC

Dr. Vinita Jindal is working as Chief Manager IP & Technology Management at Biotechnology Industry Research Assistance Council (BIRAC), A Government of India Enterprise. She holds a doctorate in Plant Sciences. She was awarded the DST Women Scientist Fellowship in the area of Intellectual Property Rights. She is a registered Patent Attorney at Indian Patent Office (IPO) and Registered Technology Transfer Professional (RTTP) and has over 13 years of experience in Intellectual Property & Technology Management. At BIRAC, she is involved in carrying out the Patent searches, analysis, and mentors the start-ups on IP & technology transfer and commercialization. She was also selected for

Technology Transfer Course-2013 offered under Khorana Program which is sponsored by Department of Biotechnology (DBT), Government of India at University of Wisconsin-Madison (UW). Prior to working in BIRAC, she has had experience in different law firms like Lakshmikumaran & Sridharan and Jafa & Javali.

Past Program Managers



Mirage Singh



Sanchita Chaudhary

Under the leadership of Mission Director, NBM



Raj K Shirumalla



Shirshendu Mukherjee



Kavita Singh

TechEx.in Team

Current Team Members



Pradnya A



Richa A



Kirti D



Ria D



Archana J



Mugdha L



Mamatha R



Pinky R



Vedang P



Manisha P



Kavita P



Vidula W



Neha J



Rohit J



Anuradha P



Priti R

Past Members



Sujit B



Rambha C



Poorvashree J



Madhu Smitha K



Siddhi M



Pratik M



Sharvari N



Devanshi P



Ashutosh P



Mrunal T

TechEx.in Activities and Services

TechEx.in has designed and launched several activities and services to realize its mission of building win-win partnerships in technology commercialization. These include activities and services that span the entire life cycle of technology commercialization, from creating awareness and knowledge, identifying and sourcing inventions, supporting IP protection, marketing technologies, match making, helping forge collaborations in technology advancement and commercialization, arranging key resources for increasing technology readiness, new venture creation and building networks in the innovation ecosystem.

The initiatives of TechEx.in can be classified into the following broad categories:

- Actively identifying and nurturing candidates for technology commercialization and new venture creation.
- Services on various aspects of innovation management and technology transfer.
- Targeted funding for invention protection.
- Events aimed at creating awareness and training inventors, innovation managers and institutional leadership.
- Making available information resources via specialized databases, the library collection and online video content.
- Ecosystem development, outreach and networking activities.
- Capacity development in tech transfer including creating an accessible pool of TT professionals and training RTTP professionals.

The initiatives are aimed at various stakeholders in the ecosystem:

- Researchers and inventors
- Innovation managers and institutional leadership
- Industry
- Startups
- Students and teachers

The services offered by TechEx.in include:

- Services for protecting creative works including advice, drafting, filing, prosecution and post-grant support.
- Services relating to structuring, drafting, negotiating agreements/deals as well as contract management support.
- Providing reports, assessments and opinions including those for IP strategy. Providing support in formulating institutional policies and processes.
- Providing specialized advisory and training services for technology development/ academic/ research organizations.
- Technology and research capability scouting for industry.
- Business consulting services such as valuations, negotiations, strategic consulting, agreement management and more.

Information Resources

TechEx.in subscribes to three patent research and analysis databases: Derwent Innovation, Questel Orbit, and SciFinder.

- Derwent Innovation offers a curated patent database, AI-powered "Smart Search" technology, and tools for patent analysis and classification.
- Questel Orbit provides innovation lifecycle management software and services, including Orbit Intelligence for searching and analyzing emerging technologies.
- SciFinder, created by Chemical Abstracts Service, is a comprehensive chemical literature database used in various scientific disciplines, offering search capabilities based on topic, author, substances, and chemical structures. It can be used alongside other databases like Reaxys, Web of Science, PubMed, Compendex, and INSPEC for specific research requirements.

The Venture Center Library offers a diverse collection of 225+ books on innovation, creativity, and business. Topics covered include competitive analysis, innovation strategy, organizational learning, managing uncertainty, technology transfer, and commercialization of innovative technologies. Notable books include "The Innovator's Dilemma" by Clayton Christensen, which explores why established companies struggle with innovation; "Built to Last" by Jim Collins and Jerry Porras, examining visionary companies; and "The Design of Everyday Things" by Don Norman, focusing on user-centered design principles. Additionally, the library provides access to Harvard Business Review and MIT Tech Review, enabling innovators to stay updated on the latest trends and insights in business, technology, and innovation.

TechEx.in maintains three IP databases, covering Venture Center Incubatees, IPFACE clients, and BIG grantees. These databases include patents, trademarks, designs, copyrights, and geographical indications filed and granted in India, as well as PCT applications, US patents, and industrial grants. They offer market sector and scientific discipline analysis and track the involvement of female inventors in Indian patent filings.

The ARI Dashboard maintained by TechEx.in simplifies patent management for decision makers at Agharkar Research Institute, Pune. It provides an efficient platform for managing patent records, tracking deadlines, and monitoring IP-related activities. The dashboard offers indicators for efficiency, such as time to filing and conversion ratio, as well as performance indicators like inventor statistics, commercialization trends, and reasons for abandoning invention disclosures. Portfolio analysis tools aid in decision-making by categorizing the IP portfolio based on subject and theme.

CSIR-NCL has implemented the Intellectual Property Management System (IPMS) for efficient patent lifecycle management. IPMS supports forecasting, status tracking, and real-time updates. TechEx.in played a role in maintaining the database and currently provides software support.

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Strengthening Team Capabilities

During the period Mar '20 to Dec '24, the TechEx.in team consisted of 26 members with different educational backgrounds out of which 15 have been trained in technology transfer by STEM Global. The team has been mentored by experts, leading to capacity building and the creation of unique activities such as TechNet. Team members have also been trained in IP & Innovation management in the UK, Denmark & Japan.



Team Members

26



Patent Agents

8



Fellow STEM

2



Team Members Trained in Technology Transfer

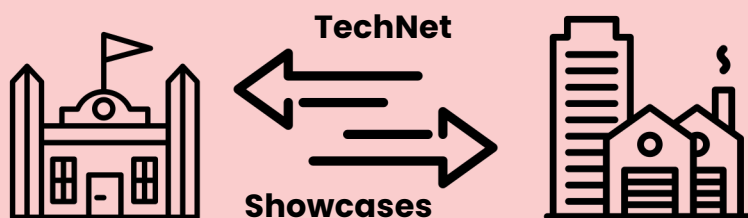
15



Registered Technology Transfer Professionals

3

Unique capabilities developed for the country by nurturing people who speak the language of both worlds



*"Our lab is involved in the development of technologies in the field of cosmetics, biochemicals and fuels. We have often shown remarkable innovations in these areas using our synthetic biology and metabolic engineering skills, filed patents and published our work in renowned journals. Several patents were granted as well. However, many of these technologies remained in the lab and did not move forward due to unavailability of desired industries or lack of knowledge about the relevant stakeholders. The issues seem to be on both academia as well as industry side, mainly due to lack of a catalyst who can facilitate joining of hands. We need a catalyst who understands the innovations made in academia and helps them to connect with the right industries. **I believe Venture Center, Pune is composed of an excellent team of people with huge connections with industries. They are making an extraordinary effort in exploiting a couple of the technologies that we have developed for the cosmetic industries.....**"*

Expanding the Network and Reach

TechEx.in organized networking events for decision makers of academic institutions and technology managers, leading to insightful discussions to generate actionable solutions. TechEx.in used social media to promote innovation, build relationships, share knowledge, and increase visibility. Additionally, TechEx.in initiated international twinning arrangements with two entities to facilitate cross-border technology transfer and innovation through collaboration and knowledge-sharing, which has and will allow them to learn from best practices and engage in joint research and commercialization projects.



Networking Events

2



No. of Participants

60+



YouTube Views

14.5k+



Hours of Watch Time

1300+



LinkedIn connections

1390+



Twitter Impressions

.200k+



"It was an excellent opportunity to interact with speakers and mentors. Young students have tremendous potential and talent which we need to guide and support them. We appreciate Venture Center for putting lot of efforts in innovation and enterprise."

Forging Partnerships for Technology Sourcing

TechEx.in has signed MoUs with various entities and organizations to source advanced technology and facilitate technology transfer operations. The partnerships enabled knowledge sharing and resource pooling, leading to more efficient technological advancements, creating new business opportunities, and driving growth in the tech industry. The MoUs demonstrate a strong commitment to developing and commercializing technologies that benefit society.



Partnerships with Organizations
58



Services provided
200+

TechEx.in played an important role in finalizing the term sheet for know-how transfer, deal structuring, and agreement drafting.

TechEx.in facilitated the collaboration between ARI and GPSR. The parties agreed to carry out collaborative work on improvement, demonstration, and scaling up ARI's technology to make commercially viable products/ processes.

ARI and GPSR signed the technology transfer and collaboration agreement on 18th Nov 2022.

Technology Transfer & Collaboration Agreement

MACS Agharkar Research Institute, Pune

GPSR Pvt. Ltd Bangalore

MACS-ARI has know-how for the technology related to ARI process for enhanced anaerobic digestion and biogas generation from rice straw

Collaborative work on improvement, demonstration and scaling up the ARI's technology further.

November 18th, 2022

Our association with TechEx.in has been one of shared values and passion towards creating an effective ecosystem for nourishing innovation and entrepreneurship. From capacity building to scouting industry leads, Venture Center has played a significant part in our organization's efforts to ensure that the students and faculty move closer to culmination of their ideas into market-deployed solutions. Apart from being efficient and skilled, the team is extremely supportive and accessible. Always working towards materializing the best possible outcomes

Our Partners for Technology Sourcing

 <p>TATA MEMORIAL CENTRE ADVANCED CENTRE FOR TREATMENT RESEARCH & EDUCATION IN CANCER</p> <p>ACTREC</p>	 <p>ARI Agharkar Research Institute</p>	 <p>Ahmedabad University Ahmedabad University</p>	 <p>Ahmedabad University Ahmedabad University - Venture Studio</p>
 <p>CAIC-RNTU ATAL Incubation Centre, Rabindranath Tagore University Supported by - ATAL Innovation Mission, NITI Aayog</p> <p>AIC - RNTU</p>	 <p>BITS Pilani Pilani Dubai Goa Hyderabad</p> <p>Birla Institute of Technology and Science</p>	 <p>BMek BMek</p>	 <p>College of Engineering, Pune</p>
 <p>केन्द्रीय खनिज व समुद्री रसायन अनुसंधान संस्थान CENTRAL SALT & MARINE CHEMICALS RESEARCH INSTITUTE समर्थित: नवा औद्योगिक अनुसंधान परिषद COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH</p> <p>CSIR-CSMCRI</p>	 <p>D.E.S. Brijlal Jindal College of Physiotherapy</p>	 <p>D.E.S. Subhadra K. Jindal College of Nursing</p>	 <p>DATTA MEGHE INSTITUTE OF HIGHER EDUCATION & RESEARCH</p> <p>DMIHER</p>
 <p>Defence Institute of Advanced Technology</p>	 <p>DAVV Incubation Center</p>	 <p>DPU DR. D. Y. PATIL VIDYAPEETH, PUNE (LICENSED TO BE UNIVERSITIES)</p> <p>DPU FIEE</p>	 <p>DPU DR. D. Y. PATIL VIDYAPEETH, PUNE (LICENSED TO BE UNIVERSITIES)</p> <p>Dr. D. Y. Patil Vidyapeeth</p>
 <p>Fergusson College</p>	 <p>ICT-NICE</p>	 <p>IIT Indore DRISHTI CPS Foundation</p>	 <p>K.E.M. Hospital Research Center</p>
 <p>KCILL KBCNMU - KCILL</p>	 <p>Mahatma Gandhi Mission Trust</p>	 <p>MIT School of Bioengineering Sciences & Research Breathe Life into Engineering Career! A Constituent Unit of MIT ADT University</p> <p>MIT SBSR</p>	 <p>MIT WORLD PEACE UNIVERSITY PUNE TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIP</p> <p>MIT World Peace University</p>
 <p>NCCS National Center for Cell Sciences</p>	 <p>Poona College of Pharmacy</p>	 <p>Rajiv Gandhi Institute of IT and Biotechnology</p>	 <p>RUIA COLLEGE Explore • Experience • Excel</p> <p>Ruia College</p>
 <p>SAGE UNIVERSITY INDORE</p> <p>SAGE</p>	 <p>Savli Technology & Business Incubator Government of Gujarat</p> <p>Savli Technology & Business Incubator</p>	 <p>SGSITS INCUBATION FORUM SGSITS Incubation Forum</p>	 <p>Shri G.S. Institute of Technology & Science</p>
 <p>Sinhgad Institutes Sinhgad Institute</p>	 <p>SOMAIYA VIDYAVIHAR Somaiya Vidyavihar University</p>	 <p>VASANTDADA SUGAR INSTITUTE Premier Research and Development Organization in Sugar and Allied Industry</p> <p>Vasantdada Sugar Institute</p>	 <p>VISHWAKARMA UNIVERSITY Maximising Human Potential</p> <p>Vishwakarma University</p>

Our Partners for Technology Sourcing



Increasing Awareness

TechEx.in organized awareness sessions and created online training content on intellectual property, technology commercialization, innovation, entrepreneurship, technology transfer, and venturing, and scientific entrepreneurship. These sessions were meant for a diverse group of individuals, including IP/TT professionals, scientists/faculty, industry professionals, and students.



Awareness Events

130+



Beneficiaries

5000+



Unique Speakers

70+



Average Feedback Rating

6.2 out of 7



Videos on YouTube

70+



Views on YouTube videos

14.5k+



Hours of Watch Time

1300+

Thoroughly enjoyed this expert talk. Truly Insightful, Invigorating & Inspiring!!

Very valuable and best suited webinar for startups. Thanks for organizing such wonderful session and sharing ground realities.

It was a very well organized event. The talk was very informative and nicely presented.

This is really very fruitful discussion on overall startup ecosystem in India. It will definitely inspire and motivate new tech startups to go forward.

Excellent Session. Appreciate the information put together by the speaker. Covered a lot in a short time.



Our most viewed content

1300+ views

Training in Innovation Management

TechEx.in organized multiple workshops on a broad range of themes: innovation, entrepreneurship, intellectual property rights, patent search and analysis techniques, technology valuation, startup development, commercialization, grant writing, healthcare innovations, etc. These sessions were meant for a diverse group of individuals, including IP/TT professionals, scientists/faculty, industry professionals, and students. TechEx.in also facilitated the funding of technology transfer training (by STEM Global) of innovation managers across.



Workshops

70+



Beneficiaries

2000+



Facilitated TT Training for

12 Academic Innovation Managers



Unique Speakers

35+



Average Feedback Rating

6.6 out of 7



Your insights on nurturing startup ecosystems were truly enriching! You covered everything brilliantly, and I'm excited for a long-term partnership.



The workshop was truly excellent, and it was well organized with good mentors and demonstrations. The activities held were also awesome.



The event was very informative & insightful. Got opportunity to interact with mentors, peers and retrospective thinking about our idea & approach comparing to successful entrepreneurs we interacted with.



IP Protection Support

TechEx.in offers IP support services, including drafting and filing of Indian patents, PCT applications, trademarks, copyrights, and industrial designs. The TTO provides assistance throughout the prosecution stage, including attending hearings, replying to office actions, and requesting examinations and also provides post-grant support. TechEx.in facilitates funding from IP & Technology Management Cell (IPTMC) Committee for the cost of statutory fees for Indian patent filing and PCT filing.



Unique Clients

100+



Invention Disclosures

160+



Unique IN patent and PCT families filed

150+



IPTMC Funds disbursed for IN and PCT filing

₹ 22 lakhs+



Trademarks and Industrial Designs filed

100+



Teralumen filed for IN patent and PCT application for their technology based on which they have raised a total funding of ₹180+ lakhs (NIDHI PRAYAS, VIT-TBI MEITY, MEITY SEED, MEITY TIDE and other awards)



Denovo Bioinnovations filed two patents. Based on their patented technology they have raised a total funding of ₹265 lakhs (BIG grant, NIDHI PRAYAS, Indus Biotech Grant, BIRAC LEAP and ANIC)



Pacify Medical filed a patent for their technology, based on which they have raised a total funding of ₹340+ lakhs (Winner of iDEX open challenge, Maharashtra Startup Week and other awards)



SH ForHealth filed a patent for their technology, based on which they have raised a total funding of ₹193.5 lakhs (BIRAC SEED Fund hosted by Venture Center, Indus Biotech CSR grant, and angel investments, NIDHI PRAYAS, SISFS, ANIC)

Advisory and Consulting Services

TechEx.in offers an extensive variety of specialized, advisory, and consulting services to clients, including IP analytics, IP reports and opinions, patent pre-grant opposition filing, business valuation, and policy drafting. TechEx.in's team of experts provides customized solutions to each client's needs, ensuring that their intellectual property is protected and maximized.



IP Advisory Services

200+



IP Analytics & Reports

170+



Business Consulting Services

4



IP Protection Policy Prepared

4



"We engaged the services of Venture Center to assess the worth of Affigenix's Bangalore R&D Unit, and we were extremely satisfied with the final valuation report they provided. The report was thorough, well-structured, and packed with valuable information, enabling us to make well-informed decisions. I wholeheartedly endorse Venture Center to any biotech business owner, entrepreneur, or individual in need of precise company valuations. Their team commitment to professionalism, expertise, and client satisfaction is unmatched, and I feel privileged to have collaborated with them".

-Dr. Arumugam, MD & CSO, Affigenix

Marketing Technology and Research Capabilities

TechEx.in markets innovative technology by creating easy-to-read technology marketing 1-pagers for licensing, co-development, or venturing. These technologies are listed in shared channels like TechEx.in's Technology Database (TDB), online databases such as AUTM Innovation Marketplace, Twitter, and LinkedIn. We also help businesses identify and develop potential customers through lead management and interfacing services. TechEx.in also promotes sponsored R&D, co-development projects, and consulting assignments through a separate website featuring research capabilities of scientists (www.techex.in/researchgroups)

TechEx.in also offers TechRx which helps R&D and academic organizations identify valuable IP and commercialization opportunities and develop go-to-market strategies (<https://www.techex.in/techrx>)



Technology Marketing
75+ 1-pagers



Assets on AUTM IM
25



Assets on Technology Database
75+



Scientist Capabilities Featured
20



Impressions on AUTM IM
7700+



Technology Database

[TechEx Site](#) [About](#)

About TechEx Database

Explore the latest technologies available for licensing from TechEx. We work with top research institutions across the country and all kinds of companies, from large to small to start-ups to help bring these technologies to the market as quickly as possible. Find cutting-edge innovations in Life Sciences, Healthcare, Environment, Sanitation, Food and Nutraceuticals, Water, Materials and Chemical Science, Electricals and Electronics, Agriculture and more.

If you are interested in any of the technologies listed here, please email us at info@venturecenter.co.in or call at +91 9585 66 5565.

[Explore Technologies](#) [Visit TechEx Site](#)

TechEx.in Technology Database



CSIR - Central Salt and Marine Chemicals Research Institute, has developed a curd strip technology for customizable curd manufacturing. TechEx.in, being the strategic partner of CSIR-CSMCRI, identified this technology and facilitated discussions between CSMCRI and Cuho Biotechnology, a startup. TechEx.in prepared marketing material, arranged demonstrations, and helped finalize a technology licensing agreement between CSMCRI and the startup.

Scouting Partners for Industry

TechNet is a program that connects industry clients with research-intensive institutes/labs/services entities. The program offers specific services designed for medium to large industry, multinational corporations, and mission-mode technology development organizations. These services include identification of potential R&D partners, facilitation of engagement, project agreements, project interfacing support, analytics and reports, campaign events, and consortium management for non-exclusionary R&D aimed at larger industry needs.



Unique Clients Served
5



Repeat Clients
2



Problem Statements
23



Revenue Generated
₹ 34 lakhs



NDAs signed
7

Prospects Identified

300

Leads given to client

114

Leads Shortlisted by the Client

23

Leads being pursued by the Client

10

Showcasing and Lead Management

TechEx.in Matchmakers facilitate theme-based matchmaking between technology providers and seekers. The goal is to create a pool of industry requirements and technology solutions to address industry problems and foster knowledge exchange. Our past matchmakers were held on the following themes: (i) Renewable Chemicals and Materials (ii) Biosimilars (iii) Rehabilitation Products (iv) Sustainable Ingredients and (v) Veterinary Diagnostics



Themes Covered

4



Showcases Organized

7



Technology Pitches

46



Technology Seekers Connected

30

Technology Providers



Expressions of Interest

110

Qualified Leads

65

NDA's Facilitated

2

Deals Facilitated (ongoing)

1

Technology Seekers connected



and many more...

Accelerating Early Technology Translation

Proto Alpha Accelerator program helps innovators lacking engineering resources to create early stage prototypes. The Protoshop team works on feasibility, detailed solutions, and prototypes, focusing on engineering design, electronics, computing, IOT, AI/ML, and supporting mechanical design. Proto Alpha transfers the technology to the idea owner's own startup or a third party licensee. TechEx.in played an important role in the Proto Alpha Product Accelerator program by facilitating joint development agreements between Venture Center and Proto Alpha's mentees. The TTO also facilitated shareholding and licensing agreements between Venture Center and the two successful parties.



Participants

6



Agreements

12



Duration

1 year



Mentors

7



“ The ProtoAlpha accelerator was exactly what I needed to push my idea forward ”

— Aken Sanghavi
Director
Regen Ortho

Aken's Protoalpha Experience

I enjoy the science and my primary goal is to make a product that works. The protoalpha team brought in people with the technical knowledge to build and refine my prototype. We communicated frequently over Whatsapp and video calls, and I visited Venture Center at different stages of the project.

Protoalpha allowed me to focus on areas that I have expertise in, while I have support and backup for areas that are not my strengths. Overall, I felt that everybody was working on what they are strong at, and that resulted in a much stronger first prototype. It might have been my idea, but the experts have been working on my idea for over a year, and at this stage, they know my product better than me !!



PROTOTYPE HANDOVER & LICENSE AGREEMENT SIGNING



“ Proto Alpha is a one-of-a-kind program that allows for quick testing and development of ideas. ”

— Jitesh Pandey
Director
MedBlue Innovations

Jitesh's Protoalpha Experience

Proto Alpha has been instrumental in helping Medblue Innovations develop its Non Invasive Bilirubinometer prototype into a clinically relevant design and MVP.

The advanced version of the prototype, developed by the accelerator, has allowed us to gather and validate a large set of data from the field. This has helped us reduce costs and develop our product at a faster pace. Proto Alpha is a one-of-a-kind program that allows for quick testing and development of ideas. We are grateful for their support



PROTOTYPE HANDOVER & LICENSE AGREEMENT SIGNING

Accelerating Early Technology Translation

The TechEx.in, Venture Center plays a role in implementing Early Translation Accelerator (ETA) which intends to bridge the gap between academic discoveries and profitable products. It helps refine promising technologies (TRL 4-5) into commercially viable solutions (TRL 7-8) with industry partners. ETA projects receive funding, help in de-risking and academia-industry collaboration. The focus is on consumer products from industrial biotechnology, like skincare, cosmetics, and health foods.



Number of Projects

3-5



Duration

18 months



Funding per project

up to ₹200 Lakhs

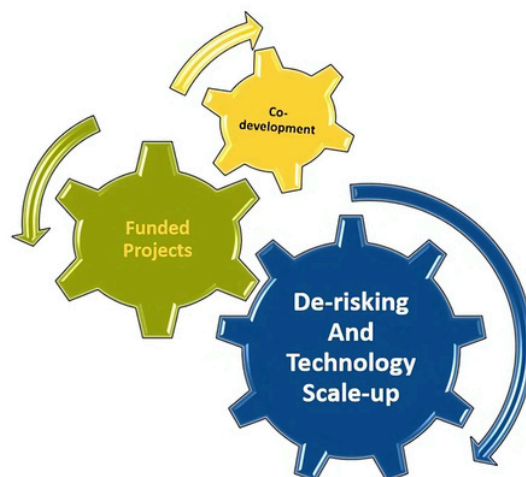
Proposed ETA Workflow:



Focus Areas



Desired Outcomes



Facilitating Collaborations and Deal Making

TechEx.in facilitates collaborations and technology transfer agreements between parties, including non-disclosure agreements, material transfer agreements, joint development agreements, sponsored research agreements, memorandum of understanding, joint invention administration agreements, patent and know-how assignments, non-exclusive and exclusive technology license, know-how license agreements, cell line licensing, technology evaluation agreements etc. These activities aim to drive progress and development in various fields, and lead to increased innovation, knowledge sharing, and economic growth.



**Collaboration
Agreements Facilitated**
100+



**Technology Transfer
Deals Facilitated**
29



Unique Parties
120+



**Agreements and Deals
closed**
65+



New Venture Creation

TechEx.in has made significant efforts in creating new ventures, starting with scanning and identifying potential candidates. These candidates are then taken for mentoring, with assistance provided for business roadmaps and team development efforts. Following this, the mentored proposals are guided for fundraising, resulting in funds and investment commitments being secured. Additionally, company formation permissions are taken care of, and co-founder agreements are signed. Finally, the spinout is incorporated, thereby completing the process of new venture creation.



**Spinout Creation
Facilitated**

6



**New Venture Creations
Supported**

120+



**New Ventures with
Technology Developed in an
Academic Institution**

21



**New Ventures with
Faculty or Student
Founder**

24

Spinouts Facilitated



RegenOrtho



Taviicare



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Impact Stories

- TechEx.in facilitates a spinout from CSIR-NCL : Rechargion S1
- TechEx.in assists SH forHealth with patents S2
- TechEx.in assists DeeDee Labs with patent filings S3
- TechEx.in supported Pragmatech by exploring Freedom to Operate (FTO) S4
- TechEx.in supported PadCare to protect IP: design and technology S5

TechEx.in facilitates a spinout from CSIR-NCL : Rechargion

Spinout Facilitated

Rechargion is an innovative deeptech startup developing sustainable, affordable and green energy storage solutions and is dedicated to developing advanced technology related to sodium ion and lithium sulfur rechargeable batteries for stationary and mobile applications.

TechEx.in services used

October 2021: Spinout Facilitated
Express License Agreements created to enable
spinout from CSIR-NCL

TechEx.in conceptualized and implemented Express License Agreements that expedited decision-making and actions. TechEx.in's efforts enabled Rechargion to focus on its core competencies while providing administrative and legal support to streamline the spin-out



Rechargion is one of the winners for UpTech challenge by the Ministry of Heavy Industries, Government of India. The Automotive Research Association of India- TechNovuus will invest in Rechargion for the development of safer batteries based on Na-ion chemistry.



Rechargion is announced as a winner in the third edition of the Social Alpha energy challenge "Techtonic - Innovations in Clean Energy".

Lab2Mkt Program
Resident Incubatee
October 2021 - Present

TechEx.in assists SH forHealth with patents

IP Protection and Support

SH forHealth is empowering physiotherapists with their smart and compact robotic assistive technology that collaborates seamless with patients to guide them through their rehabilitation journey.

TechEx.in services used

June 2022 PCT filed: Artificial Intelligence Based Lower-Limb Orthosis System for Exercise therapy

The system covered under the PCT has worked with 200+ medical experts, has 250+ pre-set rehab protocols,



SH forhealth is making waves for their innovative physiotherapy product “Rehab Buddy” and they have setup a manufacturing facility that can make 25 devices annually! The facility has also passed the first stage of the ISO 13485 certification for medical devices!

Our Manufacturing Facility is Ready

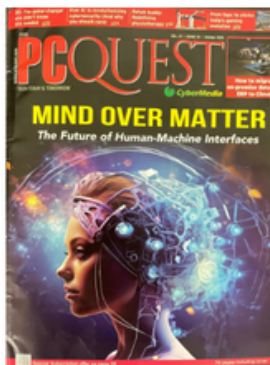


Before



In Progress

Making Headlines: Featured in PCQuest Magazine



We're thrilled to share that our innovative device has been featured in PCQuest, India's premier technology publication. The article, titled "Forget what you know about rehab – this smart robot is shaking things up", highlights how Rehab Buddy is revolutionizing recovery and redefining rehab. The article describes our device as:
"This device helps you get moving, track progress, and supercharge recovery, all while making life easier for your therapist. It's not just tech - it's the future of healing."
A big shoutout to PCQuest for recognizing our work and helping us spread the word about the future of healthcare innovation.

Associate Incubatee
CSR Grantee
Part of the Investor
Readiness Program
(IRP 2024)

TechEx.in assists DeeDee Labs with patent filings

IP Protection and Support

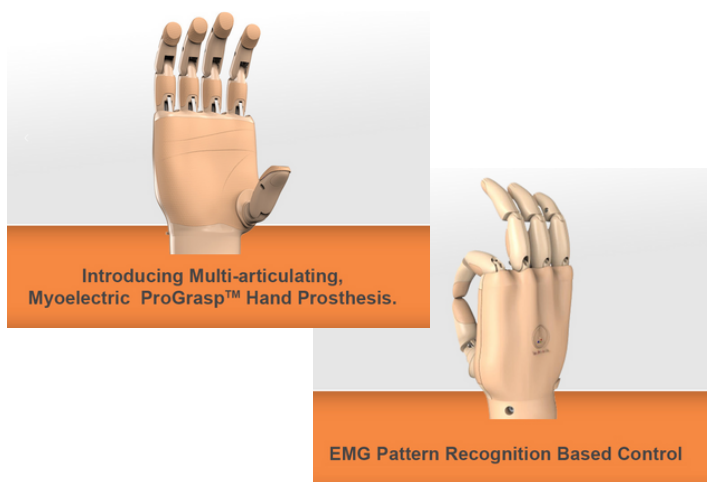
DeeDee labs now known as ProLiving Bionic Prosthesis is working to create limb prosthetics, in particular for hands, for those who have suffered amputations. Their innovation includes uses electromyographic (EMG) signals generated in the skeletal muscles to interface with and move the the 3D printed hand.

TechEx.in services used

May 2020 Patent Filed
A hand assembly

May 2021 Patent Filed
An assembly of myoelectric prosthesis
for children with limb differences

July 2022 PCT Filed
A system and method for controlling
an assistive device



TechEx has filed two patents and one PCT for DeeDee Labs and their technologies! This ensures that their products can be sold around the world under their name.

QUAZAR: Industrial Design of Myo-electric Prosthetic Hand

Designed by: Design LIFE
Client: Dee Dee Labs Pvt. Ltd.

Health Care and Medical Equipment



ProGrasp : Myo-electric Hand Prosthesis

Designed by DesignLife Design Studio
For Client Dee Dee Labs Pvt Ltd



Dee Dee Labs has won awards for the design of their prosthetic hand at India's Best Design Awards 2020 and at the 10th CII Design Excellence Awards 2020 in the Industrial Design category!



TechEx.in supported PadCare to protect IP: design and technology

IP Protection and Support

PadCare is working to make modern sanitation choices safer and recyclable for women across the world and encourage inclusiveness, equality, and healthier practices in public hygiene on a global scale.



TechEx.in services used

June 2020 Patent and PCT filed
A smart portable device and system for disposal of sanitary waste

August 2024 Patent filed
A device and method for separation of cellulose and plastic from mixed waste

July 2024 Design Registration filed for FHU and PadCare Vend, vending machine

TechEx.in filed two patents and a design registration for PadCare enabling them to raise funds and engage with more customers!



PadCare raised a combined amount of Rs. 1 Crore from 4 Sharks during their Shark Tank episode in 2022. The company was then valued at Rs. 25 Crore.

'Padman of 2022': Shark Peyush Bansal offers founder of women's hygiene startup PadCare a blank cheque

PadCare Closes INR 5 Crore Seed Funding Round

The company plans to utilize the seed capital to expand the operating geographies in India and beyond in the next 24 months, majorly to set up decentralized material recovery centres

BY TEENA JOSE FEB 9, 2023

Share 00

Padcare Labs: Solving sanitary napkins disposal conundrum, one bin-full at a time

With patented technology, Padcare Labs has created a process called 'menstrual hygiene management' that takes care of recycling used sanitary napkins, from collection to processing

"PadCare Labs, a Pune-based startup for sustainable sanitary waste processing and recycling, has closed a INR 5 crore Seed funding round led by Social Alpha with strategic investments from Lavni Ventures, 3i partners, Rainmatter, and Spectrum Impact. The company plans to utilize the seed capital to expand the operating geographies in India and beyond in the next 24 months, majorly to set up decentralized material recovery centres. The clean-tech startup will also continue to invest heavily in advancing its patented 5D recycling technology and for product commercialization." - Entrepreneur India, Feb 2023

**Resident Incubatee (2018)
Partner for BIG Call 16**

TechEx.in supported Pragmatech by exploring Freedom to Operate (FTO)

IP Protection and Support

Pragmatech Healthcare Solutions with their first product line CERVICHECK™ are aiming to bring Cervical Cancer Screening to every woman's doorstep and ensuring timely detection – so that NO precious life is lost to this preventable and curable condition

TechEx.in services used

January 2021
Freedom to Operate (FTO) report

TechEx.in explored the Freedom to Operate (FTO) for Pragmatech to ensure that their patents and products can be sold around the world!



Vadodara Startup's Cost-Effective Kits Help Women Detect Cervical Cancer At Home

After losing his housemaid to cervical cancer and realising the gap in the early detection, adoption, and access to available tests, Anirban Palit developed a device called Cervicheck that helps detect cervical cancer at home.

By Shweta Gupta
April 17, 2023

Since the FTO, Pragmatech has raised money from Venture Center (Rs. 30 lakh), Nidhi Prayas (Rs. 8 lakh), Indus Biotech's CSR Grant (Rs. 4 lakh), HDFC Smart Up Grant (Rs. 20 lakh), BIRAC's Biotech Ignition Grant (Rs. 50 lakh), and the Pfizer INDovation Program through Social Alpha (Rs. 65 Lakh)

Cervical cancer self-testing kit gets regulator's approval in Vadodara

Sachin Sharma / TNN / Updated: Apr 27, 2023, 09:45 IST

SHARE COMMENT FOLLOW US

Associate Incubatee (2020)
Partner for BIG Call 19

TechEx.in assists Denovo Bioinnovations with patents

IP Protection and Support

DeNovo is working passionately and relentlessly on development of innovative medical devices to achieve the multi-disciplinary goal of providing doctors and surgeons automatic devices to increase their efficiency and precision.

TechEx.in services used

October 2022: PCT Filed
A Multifunctional device for minimally invasive surgeries and a method thereof

Denovo is working on a comprehensive, advanced laparoscopic instrument for surgeons during minimally invasive surgeries, improving outcomes, time required and surgery fatigue.

Since filing the PCT, Denovo has been able to raise funds and has won awards to continue working on its mission to empower doctors to increase their efficiency and precision.

Denovo Bioinnovations Pvt Ltd was selected as the most innovative startup at the FICCI-TNIE Awards in December 2023!

Denovo is inaugurating their new office in Pune on March 7th 2025!

This is an archive article published on January 4, 2024

With wound-closure device, Pune-based doctor aims to prevent needlestick injuries

Dr Nikhil Mamoria's patented, automated wound-closure device SutureSure is likely to empower doctors to do suturing effortlessly. It will be available in the market after it has been clinically validated.

Denovo Secures Rs 1.96 Crore in Funding led by Campus Angels Network

ANI | Updated: Jan 08, 2025 16:55 IST

Denovo Bioinnovations Team with Campus Angels Network Founders



Resident Incubatee
2021 - 2025
BIG Partner Call 16

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Appendices

A0

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Appendix 1: TechEx.in team members and their backgrounds

TechEx.in Team Members		
Sr No.	Name	Background + Training
Current Team (December 2024)		
1	Pradnya Aradhye	Registered Technology Transfer Professional, MTech IIT Kanpur in BSBE
2	Richa Arya	Patent Agent, PhD in Pharmaceutical Chemistry
3	Ria Deshpande	PhD, Mathematical Computational and Systems Biology
4	Kirti Dubey	Post Graduation Diploma in Intellectual Property Rights, Graduation in Political Science
5	Neha Jacob	CA/ CS
6	Archana Joshi	57 RTTP credits, Patent Agent, M.Sc. Organic Chemistry
7	Rohit Joshi	BE(IT) + MBA(Ops)
8	Mugdha Lele	57 RTTP Credits, Chevening Fellow (CRISP), PhD (Health Sciences)
9	Kavita Parekh	67 RTTP credits, PhD (Health Sciences)
10	Vedang Pawar	MSc Biotechnology
11	Manisha Premnath	Chevening Fellow (CRISP); 12 yrs of experience in tech commercialization, PhD (Biotechnology)
12	Anuradha Purandare	M.Com
13	Mamatha Rangaswamy	Patent Agent, PhD in Pharmaceutical Chemistry
14	Priti Rathi	CA
15	Pinky Raychaudhuri	57 RTTP credits, PhD (Chemical Biology)
16	Vidula Walimbe	Registered Technology Transfer Professional, PhD (Law)
Past Members		
1	Sujit Bhansali	Patent Agent
2	Rambha Chaudhary	57 RTTP credits, Biotechnologist, Diploma in IPR law
3	Poorvashree Joshi	57 RTTP credits, Patent Agent, PhD (Pharmaceutical Chemistry), International training (DFC, Denmark)
4	Madhu Smitha Kode	M.S. Bioengineering
5	Siddhi Mukhedkar	M.Tech Biotechnology
6	Pratik Munot	M.Tech Biotechnology, Patent Agent, 57 RTTP Credits
7	Sharvari Naik	M.Sc. Biotechnology
8	Devanshi Patel	57 RTTP credits
9	Ashutosh Prachand	57 RTTP credits, Patent Agent
10	Mrunal Tare	Patent Agent, MTech in Process Instrumentation, 57 RTTP Credits

Appendix 2: List of networking events organised/ participated

List of Networking Events Organized				
Sr No.	Date	Event Name	Guest of Honour	Number of Participants
1	07-Oct-2022	Networking Event for Leadership: "Improving Innovation and Entrepreneurship Performance"	Dr Abhay Jere, Dr Shirshendu Mukherjee	42
2	18-Nov-2022	Round Table of Heads and Tech Managers of R&D and Academic Institiutes on "Technology Transfer and Venturing"	Dr Ashley Stevens, Dr Shirshendu Mukherjee, Mr Janak Nabar	18
3	3-Feb-2024	Intellectual Property Valuation for Academic Institutions	Dr Ashley Stevens	15
Total				75

Appendix 3: List of MoUs/ strategic partnership agreements signed

List of MoUs/ Strategic Partnership Agreements Signed				
Sr No.	Date Signed	Name of the Strategic Partner	Location	Services given
1	03-Mar-2023	Advanced Centre for Treatment, Research and Education in Cancer	Mumbai	11
2	04-Feb-2021	Agharkar Research Institute	Pune	85
3	11-May-2021	Ahmedabad University	Ahmedabad	12
4	11-May-2021	Ahmedabad University - Venture Studio	Ahmedabad	1
5	22-Sep-2023	AIC-RNTU Foundation, Rabindranath Tagore University	Indore	0
6	17-Apr-2023	Birla Institute of Technology and Science (BITS)	Pilani	1
7	29-Sep-2020	BMek	Pune	4
8	11-Dec-2023	College of Engineering Pune Technological University	Pune	0
9	04-Feb-2021	CSIR - Central Salt & Marine Chemicals Research Institute	Bhavnagar	30
10	30-May-2023	D.E.S. Brijlal Jindal College of Physiotherapy	Pune	5
11	21-Dec-2023	D.E.S. Subhadra K. Jindal College of Nursing	Pune	1
12	15-Dec-2020	Datta Meghe Institute of Higher Education & Research	Wardha	5
13	14-Jun-2023	Defence Institute of Advanced Technology	Pune	4
14	18-Dec-2023	Devi Ahilya Vishwavidyalaya Incubation Centre	Indore	0
15	27-Mar-2023	DPU Foundation for Innovation, Incubation Entrepreneurship	Pune	5
16	27-Mar-2023	Dr. D. Y. Patil Vidyapeeth	Pune	4
17	03-Mar-2023	Fergusson College	Pune	0
18	20-Nov-2023	ICT-NICE Venture Incubator and Foundation	Mumbai	0
19	04-Sep-2023	IIT Indore DRISHTI CPS Foundation	Indore	0
20	28-Feb-2023	K.E.M. Hospital Research Center (KEMHRC)	Pune	0
21	11-Apr-2023	KBCNMU Centre for Innovation Incubation and Linkages	Jalgaon	0
22	10-Jul-2023	Mahatma Gandhi Mission Trust	Chhatrapati Sambhaji Nagar	4
23	01-Feb-2021	MIT School of Bioengineering Sciences & Research	Pune	2
24	09-Feb-2023	MIT World Peace University	Pune	1
25	24-Dec-2020	National Center for Cell Sciences	Pune	4
26	01-Mar-2023	Poona College of Pharmacy	Pune	4
27	01-Mar-2023	Rajiv Gandhi Institute of IT and Biotechnology	Pune	0
28	08-Mar-2021	Ruia College	Mumbai	3
29	28-Sep-2023	SAGE (SAGAR Group of Educational Society)	Indore	0
30	04-Feb-2021	Savli Technology & Business Incubator	Savli	3
31	04-Sep-2023	SGSITS Incubation Forum	Indore	0
32	04-Sep-2023	Shri G.S. Institute of Technology & Science (SGSITS)	Indore	0
33	09-May-2023	Sinhagad Institute	Pune	0
34	18-Nov-2021	Somaiya Vidyavihar University	Mumbai	2
35	08-Mar-2023	Vasantdada Sugar Institute	Pune	0
36	02-Dec-2020	Vishwakarma University	Pune	16
37	12-Jun-2024	Anant National University	Ahmedabad	0
38	07-Jun-2024	DES' Dr. P.C. Shejwalkar Center for Entrepreneurship and Innovation (DSCEI)	Pune	0
39	08-Apr-2024	Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri	Pune	1
40	08-Sep-2024	Gujarat Biotechnology University GBU	Gandhinagar	0
41	14-Jun-2024	Gujarat Technological University	Ahmedabad	0
42	14-Jun-2024	Gujarat Technological University innovation Council	Ahmedabad	0
43	19-Mar-2024	Guru Nanak Khalsa College of Arts, Science and Commerce (Khalsa College)	Mumbai	0
44	10-Jun-2024	Gyanmanjiri Innovative University, Bhavnagar	Bhavnagar	0
45	01-May-2024	Institute of Chemical Technology, Mumbai	Mumbai	0
46	11-Jul-2024	IISER Kolkata RISE	Kolkata	0
47	25-Jun-2024	IIT Ropar - AWaDH	Rupnagar	0
48	13-Jun-2024	Indian Institute of Public Health, Gandhinagar	Gandhinagar	0
49	16-Sep-2024	ITM Vocational University, Vadodara	Vadodara	0
50	15-Sep-2024	Manipal Academy of Higher Education (MAHE)		0
51	08-Jan-2024	MIT- Art Design & Technology (MIT-ADT)	Pune	2
52	11-Jun-2024	Navrachana Innovation Foundation	Vadodara	0
53	11-Jun-2024	Parul Innovation and Entrepreneurship Research center	Vadodara	0
54	11-Jun-2024	Parul University	Vadodara	0
55	10-Jun-2024	Shantilal Shah Engineering College, Bhavnagar	Bhavnagar	0
56	27-Feb-2024	Shivnagar Vidya Prasarak Mandal's College of Engineering (SVPMCOE)	Pune	0
57	18-Jul-2024	Sri Ramaswamy Memorial (SRM) University	Chennai	0
58	02-Aug-2024	Smt. Mathurabai Bhausaheb Thorat Sevabhavi Trust (SMBT) - SRISHTI	Nashik	2
Total				212

Appendix 4: List of awareness events

List of Awareness Events					
Sr No.	Date	Event Name	Speakers	No. of Participants	Feedback Rating
1	26-Apr-2020	World IP Day: Innovate for a Green Future	Multiple	45	5.6
2	13-May-2020	Institutional Policy and Mechanisms for IP and TT (for AFMC)	Premnath V	8	-
3	26-May-2020	Negotiation Techniques for Technology Entrepreneurs and Innovation Managers	Hasit Seth	70	-
4	08-Jun-2020	COVID-19 Drug Candidates: Understanding Patent Landscapes & Navigating Patent Barriers	TFORD/ Gnanlex	55	4.8
5	13-Jun-2020	Understanding and Negotiating NDAs and MTAs	LegaLogic	92	6.2
6	21-Jul-2020	Training session on Derwent Innovations	Abhijeet Patil	13	-
7	25-Jul-2020	Training session on Sci-finder database	Vinit Kunte	20	-
8	31-Jul-2020	ASM group of Institutes	Archana Joshi	36	-
9	08-Aug-2020	Basics of IP and patent filing	IPFACE team	85	6
10	13-Aug-2020	Basics of IP and patent filing (meant for CSIR-SRTP)	IPFACE team	70	6.2
11	01-Sep-2020	Training session on Questel Orbit database	Yogesh Kardame	7	-
12	05-Sep-2020	Basics of IP and technology in licensensing for startups - Startup 101 talk series	Vidula Walimbe, Ashutosh Prachand, Archana Joshi	66	6
13	02-Nov-2020	3 day patent drafting workshop	Srividya Ravi, Archana Joshi, Ashutosh Prachand and Chirag	35	5.3
14	11-Nov-2020	Symposium Intellectual property and biotechnology: Insights and lessons	Premnath V, Nitin Tewari, Sucheta Markan, Vinita Jindal	52	5.3
15	05-Jan-2021	Awareness Talk for students and faculty of Singhgad Institute of Management	Archana Joshi	70	-
16	15-Jan-2021	Awareness Talk for students of Khalsa College, Mumbai	Vinita Panchanadikar, Archana Joshi	75	-
17	20-Jan-2021	2 Day online course on Designing Strategic Patent Claims	Gaurav Chhibber, Srividya Ravi and Ashutosh Prachand	10	6.1
18	25-Jan-2021	Technique of patent search and analysis: Insights and strategy	Poorvashree Joshi	17	-
19	28-Jan-2021	Awareness Talk for students of DMIMS, Vardha	Archana Joshi	127	-
20	04-Mar-2021	Awareness Talk for students & scientists at ARI	Ashutosh Prachand	106	-
21	09-Mar-2021	Skill Development Program at NCL	Ashutosh Prachand	-	-
22	11-Mar-2021	Skill Development Program at NCL	Archana Joshi	20	-
23	17-Mar-2021	Awareness Talk at COEP	Archana Joshi	60	-
24	23-Mar-2021	Basics of patent searches and analytics	Niranjan Yeole	97	-
25	26-Apr-2021	World IP day Taking innovative ideas to market: Managing IP assets and risk	Aravind Chinchure	77	6
26	31-May-2021	Protection of Plant Varieties & commercial insights	Hanchinal, Paranjape, Vidula Walimbe	78	6.2
27	09-Jun-2021	Talk on Technique of Intellectual Property Search & Analysis - Insights & Strategy	Poorvashree Joshi	44	6.3
28	28-Jun-2021	JDA Clinic	Premnath V	1	-
29	28-Jun-2021	JDA Clinic	Premnath V	1	-
30	29-Jun-2021	JDA Clinic	Premnath V	1	-
31	29-Jun-2021	JDA Clinic	Premnath V	1	-
32	30-Jun-2021	JDA Clinic	Premnath V	1	-
33	05-Jul-2021	6 Days Certificate Course on Intellectual Property for Chemists and Biologists	Organized by TechEx.in and Gnanlex	38	6.1
34	30-Jul-2021	Techniques of patent search and analysis for Agri-innovations	Poorvashree Joshi	40	6.2
35	18-Aug-2021	IPR awareness-BIG awareness	Archana Joshi	30	6.4
36	27-Aug-2021	IPR awareness & strategy-BRBC city camp	Archana Joshi	38	6.5
37	24-Sep-2021	IPR awareness Talk-G H Raisoni college of Engineering	Archana Joshi	85	-
38	04-Oct-2021	Launching of startups from CSIR/ NCL	Premnath V, Soma, Vijay, Vinita Panchanadikar	79	-
39	08-Oct-2021	IPR awareness & strategy-BRBC city camp	Archana Joshi	35	6.1
40	28-Oct-2021	Mini Workshop on FRAND and SEP	Prashant P, Tulasi, Ravi Bhola, Panel	57	6.7

List of Awareness Events					
Sr No.	Date	Event Name	Speakers	No. of Participants	Feedback Rating
41	19-Nov-2021	The Art of the Cap table	Ashley Stevens	-	-
42	10-Dec-2021	Nuances of technology licensing, contract manufacturing and distribution agreements	Shridhar Kulkarni	30	6
43	17-Dec-2021	BRBC Camp(BRBC city camp in collaboration with ACIC RISE Association, Chandigarh Group of Colleges, Mohali)	Archana Joshi	40	6
44	14-Jan-2022	Best practices in IP policy	Aravind Chinchure	42	6
45	03-Feb-2022	BIG Awareness Talk	Archana Joshi, Shalini Singh	23	7
46	04-Feb-2022	Case studies in Tech Transfer	Sanjay, Magesh, Sucheta	73	5.7
47	12-Feb-2022	Innovation FLOW	Shankar	75	6.5
48	26-Apr-2022	Idea to Commercialization - Practical Hacks and Tricks	Jagdish Chaturvedi	80	6.5
49	30-Jun-2022	Startup 101 lecture series(Intro to IP & patents)	Archana Joshi	50	-
50	08-Jul-2022	BIG 21 Know More series	Poorvashree Joshi	-	-
51	13-Sep-2022	Only Patents! (Part 1 of Only One Theme Series)	Ravi Bhola	58	6
52	27-Sep-2022	Only Copyrights! (Part 2 of Only One Theme Series)	Latha Nair	56	6
53	11-Oct-2022	Only Trademarks! (Part 3 of Only One Theme Series)	Sudeshna Banerjee	57	6
54	18-Oct-2022	Only Valuation! (Part 4 of Only One Theme Series)	Pushpa Vijayraghavan	57	6
55	08-Nov-2022	Only Designs! (Part 5 of Only One Theme Series)	Ravi Bhola	50	6
56	15-Nov-2022	IPR strategies Talk at IESA	Archana Joshi	20	-
57	19-Nov-2022	Talk on "Technology Transfer and Venturing"	Shirshendu Mukerjee, Ashley Stevens, Janak Nabar	93	6.5
58	22-Nov-2022	Only Licensing! (Part 6 of Only One Theme Series)	K Vijayraghavan	53	6
59	06-Dec-2022	Only Startups! (Part 7 of Only One Theme Series)	Premnath V	46	6
60	20-Dec-2022	Only Freedom to Operate! (Part 8 of Only One Theme Series)	Sivakami Dhulap	62	6
61	21-Dec-2022	JDA Clinic	Premnath V	1	-
62	10-Jan-2023	Only Patent Analytics! (Part 9 of Only One Theme Series)	Vidula Walimbe	62	6
63	24-Jan-2023	Only Technology Strategy! (Part 10 of Only One Theme Series)	Hiran Vedam	41	6
64	14-Feb-2023	Only Writing Industry Proposals! (Part 11 of Only One Theme Series)	Vilas Sinkar	54	6
65	22-Feb-2023	JDA Clinic	Premnath V	1	-
66	28-Feb-2023	Talk on Opportunities and Challenges of a Biotech Startup: Lessons from the Field	Mrignayani Kotecha	38	6.8
67	28-Feb-2023	Only Grant Writing! (Part 12 of Only One Theme Series)	Priya Nagaraj	55	6
68	08-Mar-2023	JDA Clinic	Premnath V	1	-
69	10-Mar-2023	Talk on Translating Academic Research into Products and Services at 2nd Foundation Day of BIOCYTIH	Premnath V	170	-
70	14-Mar-2023	Only Finding Licensees! (Part 13 of Only One Theme Series)	Vandana Sarda	40	6
71	28-Mar-2023	Only Biodiversity Act! (Part 14 of Only One Theme Series)	Vijay Paranjape	52	6.1
72	11-Apr-2023	Only Digital Marketing! (Part 15 of Only One Theme Series)	Madhuri Bogawat	50	6.2
73	25-Apr-2023	Only Negotiations! (Part 16 of Only One Theme Series)	Hasit Seth	72	5.8
74	26-Apr-2023	Women and IP: A Celebration of Experiences	Hiran Vedam	74	7
75	02-May-2023	Only Open Source Licensing! (Part 17 of Only One Theme Series)	Hasit Seth	37	6.2
76	23-May-2023	Techniques of Patent Search and Analysis: Pharma-Innovations	Poorvashree Joshi	20	-
77	30-May-2023	Only Collaboration Agreements! (Part 18 of Only One Theme Series)	Nihal Kothari	67	6.3
78	27-Jun-2023	Nuts and Bolts of Designing Effective Collaboration Agreements	Nihal Kothari	55	-
79	14-Jul-2023	Decoding the BIRAC-PACE Funding Opportunity	Smita Kale, Premnath V	82	-
80	12-Sep-2023	Only Biodiversity Act and its 2023 Amendment!	Ravi Bhola	52	6.4
81	26-Sep-2023	Only TRIZ!	TitoKishan Vemuri	55	6.3
82	04-Oct-2023	Scientist Entrepreneurship Scheme and Startups Originated from CSIR/NCL	Ashish Lele, Vijay Modepalli, Premnath V, Vidula Walimbe	40	-
83	10-Oct-2023	Only Need Identification and Problem Definition!	Puskhar Ingale	61	6

List of Awareness Events					
Sr No.	Date	Event Name	Speakers	No. of Participants	Feedback Rating
84	11-Oct-2023	Turning Ideas into Products: Innovation, Tech Commercialization, and Patenting, Nuts and bolts of patenting, establishing and running a patent cell, Establishing IP and Tech Commercialisation policies	Premnath V, Archana Joshi, Vidula Walimbe	-	-
85	17-Oct-2023	Only Setting up a Patent Cell!	Premnath V	79	6.7
86	07-Nov-2023	Only Open Innovation!	Shreeram Joshi	30	5
87	28-Nov-2023	Only Pre-investment Due Diligence!	Shruti Devasthali	32	6.3
88	05-Dec-2023	Only Investment Instruments for Startups!	Shruti Devasthali	18	6.8
89	26-Dec-2023	Only Setting up a Student Entrepreneurship Club!	Premnath V	61	6
90	09-Jan-2024	Only Protecting AI based Software Inventions	Hasit Seth	50	
91	12-Jan-2024	IPR, Patentability & FTO at VBC	Archana Joshi	25	-
92	13-Jan-2024	One on One clinics	Archana Joshi	7 clinics	-
93	18-Jan-2024	Getting Your IP House in Order	Madhuri Roy	45	5.3
94	23-Jan-2024	Only Anatomy of an Investment Agreement!	Vivek Sadhale	50	5.7
95	13-Feb-2024	Only OKRs Framework!	Sundara Nagarajan	36	6.8
96	27-Feb-2024	Only Funding your Patent Filings!	Chinmay Khare	48	6.2
97	12-Mar-2024	Only Deciding Inventorship for Patents!	Srividya Ravi	36	6.5
98	26-Mar-2024	Only Sale and Purchase Agreements for Mergers and Acquisitions!	Vivek Sadhale	47	6.5
99	05-Apr-2024	Trademark for Startups and Small Businesses	Archana Joshi, Kirit Dubey	60	6.4
100	16-Apr-2024	Only Faculty Entrepreneurship!	Premnath V	47	6.6
101	23-Apr-2024	Only Protection for Plant Varieties	Malathi Lakshikumar	49	6.4
102	25-Apr-2024	Striking fair deals for equitable access to medicines: The case of pro-access IP policies of DNDi	Pascale Boulet, Kavita Singh	33	-
103	14-May-2024	Cross border collaboration in Biodiversity	Malathi Lakshikumar	-	-
104	15-May-2024	Awareness Session on STEM Technology Transfer Courses (2024)	Rijuta Garapaty	-	-
105	07-Jun-2024	How To Plan For Start-up: Legal And Ethical Steps	Archana Joshi, Shruti Devasthali, Akash Dhade	-	-
106	08-Jun-2024	Fireside Chat – Share experiences & Brainstorm on real life issues	V Premnath	-	-
107	10-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups	Mugdha Lele	20	-
108	10-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups, Benefits via Strategic Partnerships	Mugdha Lele, Kavita Parekh	10	-
109	11-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups	Mugdha Lele	50	-
110	12-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups, Benefits via Strategic Partnerships	Mugdha Lele, Kavita Parekh	20	-
111	13-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups, Benefits via Strategic Partnerships	Mugdha Lele, Kavita Parekh	25	-
112	13-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups, Benefits via Strategic Partnerships	Mugdha Lele, Kavita Parekh	30	-
113	13-Jun-2024	Talk: Deep Science Startups: Selected Challenges and Remedies	V Premnath	-	-
114	14-Jun-2024	Talk on: Science Entrepreneurship and Funding Opportunities for Deeptech Startups, Benefits via Strategic Partnerships	Mugdha Lele, Kavita Parekh	20	-
115	05-Jul-2024	Talk: Essentials of Science and Technology Entrepreneurship in teaching institutes: How to convert student or faculty research ideas into startups	Mugdha Lele	-	-
116	24-Jun-2024	Mastering IPR: Essential insights for startups & Innovators (by Manipal GoK Bioincubator)	Archana Joshi	30	-
117	05-Jul-2024	Session at CIPAM event at NCL (Types of applications/specifications, timelines & cost)	Archana Joshi	32	-
118	16-Jul-2024	Nuts & Bolts of Patenting	Archana Joshi	25	-
119	09-Aug-2024	Navigating Patent Funding Opportunities with BIRAC-PATH	Vinita Jindal	50	-
120	10 Sept 2024	Only NIRF Innovation Rankings!	Premnath V	40	6.8
121	24 Sept 2024	Only Protecting and Licensing Music!	Dakshayani Athalye	35	5.8
122	08-Oct-2024	Only ESOPs and SARs: Part 1 - Introduction to Share-based Compensation!	Amey Kunte	38	5.8

List of Awareness Events					
Sr No.	Date	Event Name	Speakers	No. of Participants	Feedback Rating
123	15-Oct-2024	Only ESOPs and SARs: Part 2 - Strategies & Best Practices	Amey Kunte	44	5.8
124	12-Nov-2024	Only Technology Readiness Level!	Hiran Vedam	39	5.9
125	25-Nov-2024	ACTREC Workshop Talk - FROM IDEA TO IMPACT EXPLORING PATENTING, LICENSING, AND START-UP OPPORTUNITIES.	Premnath V, Mugdha Lele, Pradnya Aradhye	15	-
126	26-Nov-2024	Only NDA and MTA!	Archana Joshi Mamatha Rangaswamy	48	6.5
127	10-Dec-2024	Only Competitive Analysis!	Vinodh Mewani	58	6.8
128	17-Dec-2024	Only Patent Box Regime!	Ameya Kunte	67	6.3
Total				5429	6.21

Appendix 5: List of online videos created

List of Online Videos Created				
Sr No.	Date Published	Title	Views	Total Watch Duration (hh:mm:ss)
1	08-Oct-2021	Structuring, Negotiating & Closing License Agreements	116	20:41:12
2	09-Oct-2021	Structuring, Negotiating & Closing License Agreements	82	15:34:48
3	25-Oct-2021	Introduction to Technology Commercialization	112	10:01:04
4	27-Oct-2021	Talk on "Nuts and Bolts of complying with the National Biodiversity Act"	66	11:05:30
5	10-Nov-2021	An Introduction to Innovation Funding from BIRAC for Academics and Researchers : PACE (AIR and CRS)	48	7:48:48
6	11-Dec-2021	Nuances of technology licensing, contract manufacturing and distribution agreements	15	4:43:30
7	14-Jan-2022	Mini-workshop on Best practices in drafting IP Policies	19	1:52:25
8	21-Jan-2022	Workshop on "Technology Valuation and IP Due Diligence"	47	3:40:07
9	22-Jan-2022	Workshop on "Technology Valuation and IP Due Diligence"	9	0:15:18
10	04-Feb-2022	Mini-workshop : Case studies in technology transfer from R&D Labs	50	3:25:50
11	12-Feb-2022	Mini-workshop: Innovation FLOW - How to transform your ideas into impactful innovations	132	33:15:24
12	26-Feb-2022	Socially responsible licensing of drugs & vaccines- Talk by Dr Ashley Stevens	52	6:23:56
13	04-Mar-2022	Incubating drug discovery technologies and start-ups: DRIVE model	68	3:28:32
14	26-Apr-2022	Idea to Commercialization - Practical Hacks and Tricks	19	9:34:45
15	11-May-2022	Celebrating World IP Day 2022. Keynote talk: Idea to commercialization- practical hacks and tricks	15	0:45:15
16	02-Jun-2022	Translation of Healthcare Innovations: Lessons Learned from the US and Emory University by Dr. Todd	75	13:40:00
17	06-Jun-2022	Commercializing New Technology and Business Ideas: Lessons from the Trenches	67	11:18:56
18	23-Jun-2022	Converting Research into Products: Insights from my Multidisciplinary Problem Solving Journey	25	2:26:40
19	13-Sep-2022	Only Patents! (Part 1 of Only One Theme)	79	7:14:30
20	27-Sep-2022	Only Copyrights! (Part 2 of Only One Theme)	53	5:57:45
21	11-Oct-2022	Only Trademarks! (Part 3 of Only One Theme)	38	2:57:20
22	19-Oct-2022	Only Valuation! (Part 4 of Only One Theme)	42	3:35:36
23	08-Nov-2022	Only Designs! (Part 5 of Only One Theme)	56	2:05:04
24	22-Nov-2022	Only Licensing! (Part 6 of Only One Theme)	56	3:16:56
25	06-Dec-2022	Only Startups! (Part 7 of Only One Theme)	106	8:00:32
26	20-Dec-2022	Only Freedom to Operate! (Part 8 of Only One Theme)	67	6:23:01
27	21-Dec-2022	Talks on Technology Transfer and Venturing (19 Nov 2022)	47	3:44:49
28	03-Jan-2023	Technique of Patent Search and Analysis for Agri-innovations by Dr Poorvashree Joshi	26	1:49:38
29	10-Jan-2023	Only Patent Analytics! (Part 9 of Only One Theme)	44	3:22:24
30	24-Jan-2023	Only Technology Strategy! (Part 10 of Only One Theme : An Awareness Campaign on Innovation Mgmt)	15	1:32:15

List of Online Videos Created				
Sr No.	Date Published	Title	Views	Total Watch Duration (hh:mm:ss)
31	31-Jan-2023	Lessons from failed enterprises & entrepreneurs: How to avoid potholes of venture creation & growth	41	6:55:28
32	15-Feb-2023	Only Writing Industry Proposals! (Part 11 of Only One Theme)	47	1:21:28
33	28-Feb-2023	Only Grant Writing! (Part 12 of Only One Theme)	17	0:13:53
34	02-Mar-2023	Opportunities and Challenges of a Biotech Startup: Lessons from the Field by Dr. Mrignayani Kotecha	14	1:06:02
35	15-Mar-2023	Only Finding Licensees! (Part 13 of Only One Theme)	30	3:47:30
36	28-Mar-2023	Only Biodiversity Act! (Part 14 of Only One Theme: An Awareness Campaign on Innovation Management)	65	6:06:39
37	11-Apr-2023	Only Digital Marketing! (Part 15 of Only One Theme: An Awareness Campaign on Innovation Management)	67	7:39:14
38	26-Apr-2023	Only Negotiations! (Part 16 of Only One Theme: An Awareness Campaign on Innovation Management)	100	4:26:04
39	03-May-2023	Only Open Source Licensing! (Part 17 of Only One Theme)	83	3:51:18
40	31-May-2023	Only Collaboration Agreements! (Part 18 of Only One Theme)	288	19:21:57
41	27-Jun-2023	Nuts and Bolts of Designing Effective Collaboration Agreements	145	16:01:18
42	13-Sep-2023	Only Biodiversity Act and its 2023 Amendment! (Part 1 of Only One Theme: Wave 2)	58	7:26:57
43	26-Sep-2023	Only TRIZ! (Part 2 of Only One Theme: Wave 2)	25	1:23:18
44	10-Oct-2023	Only Need identification and Problem Definition! (Part 3 of Only One Theme: Wave 2)	50	6:18:19
45	18-Oct-2023	Only Setting up a Patent Cell! (Part 4 of Only One Theme: Wave 2)	39	4:48:44
46	07-Nov-2023	Only Open Innovation! (Part 5 of Only One Theme: Wave 2)	0	0:00:00
47	05-Dec-2023	Only Investment Instruments for Startups! (Part 7 of Only One Theme: Wave 2)	21	0:57:52
48	05-Dec-2023	Only Pre-investment Due Diligence! (Part 6 of Only One Theme: Wave 2)	8	0:46:53
49	26-Dec-2023	Only Setting up a Student Entrepreneurship Cell! (Part 8 of Only One Theme: Wave 2)	27	1:46:16
50	Jan 10, 2024	Only Protecting AI based Software Inventions! (Part 9 of Only One Theme: Wave 2)	156	9:54:37
51	Jan 23, 2024	Only Anatomy of an Investment Agreement ! (Part 10 of Only One Theme: Wave 2)	5	0:01:23
52	Feb 8, 2024	Only Anatomy of an Investment Agreement! (Part 10 of Only One Theme: Wave 2)	141	24:10:04
53	Feb 13, 2024	Only OKRs Framework! (Part 11 of Only One Theme: Wave 2)	106	7:24:23
54	Feb 27, 2024	Only Funding you Patent filings! (Part 12 of Only One Theme: Wave 2)	113	8:40:16
55	Mar 13, 2024	Only Deciding Inventorship for Patents! (Part 13 of Only One Theme: Wave 2)	91	6:11:00

List of Online Videos Created				
Sr No.	Date Published	Title	Views	Total Watch Duration (hh:mm:ss)
56	Mar 26, 2024	Only Sale & Purchase Agreements for Mergers & Acquisitions! (Part 14 of Only One Theme: Wave 2)	59	7:44:08
57	Apr 17, 2024	Only Faculty Entrepreneurship! (Part 15 of Only One Theme: Wave 2)	175	11:35:29
58	Apr 18, 2024	Trademarks for Startups and Small Businesses	50	1:50:05
59	Apr 24, 2024	Only Protection for Plant Varieties! (Part 16 of Only One Theme: Wave 2)	442	50:04:16
60	Apr 29, 2024	Striking fair deals for equitable access to medicines: The case of pro-access IP policies of DNDi	39	0:24:30
61	Sep 10, 2024	Only NIRF Innovation Rankings! (Part 1 of Only One Theme: Wave 3)	769	73:46:22
62	Sep 24, 2024	Only Protecting and Licensing Music! (Part 2 of Only One Theme: Wave 3)	1242	111:59:31
63	Oct 8, 2024	Only ESOPs and SARs! - Introduction to Share-based Compensation (Talk 3 of Only One Theme: Wave 3)	914	148:18:25
64	Oct 15, 2024	Only ESOPs and SARs! - Strategies and Best Practices (Talk 4 of Only One Theme: Wave 3)	738	63:39:45
65	Nov 12, 2024	Only TRL! - Technology Readiness Levels (Talk 5 of Only One Theme: Wave 3)	273	13:44:58
66	Nov 26, 2024	Only NDA & MTA! - Key Legal Agreements (Talk 6 of Only One Theme: Wave 3)	269	30:19:18
67	Dec 10, 2024	Only Competitive Analysis! - Staying ahead of the Curve! (Talk 7 of Only One Theme: Wave 3)	246	20:52:39
68	Dec 17, 2024	Only Patent Box Regime ! (Talk 8 of Only One Theme: Wave 3)	296	33:46:38
69	Jan 7, 2025	Only Geographical Indications! by @ganeshhingmire7237 (Talk 9 of Only One Theme: Wave 3)	133	2:43:15
70	Jan 16, 2025	Only Investor-side Due Diligence in IP for Startups (Talk 10 of Only One Theme: Wave 3)	43	8:00:10
71	Feb 11, 2025	Only R&D and Innovation Trends in India! by Janak Nabar (Talk 11 of Only One Theme: Wave 3)	79	8:09:31
72	Feb 26, 2025	Only Writing a DPR for taking a loan from a bank by Shyam Mahale (Talk 12 of Only One Theme: Wave 3)	39	3:09:08
Total			14813	1280:06:33

Appendix 6: List of training events and workshops

List of Training Events and Workshops					
Sr No.	Date	Workshop Name	Speakers	No. of Participants	Feedback Rating
1	27-Sep-2021	Mini workshop on Tech commercialization	Premnath V	-	6.2
2	07-Oct-2021	Structuring, Negotiating and closing license agreements	Ashley Stevens	35	6.8
3	26-Oct-2021	Talk on Nuts and Bolts of complying with the NBA	Deepa Tikku, Vijay Paranjape	30	-
4	10-Nov-2021	An Introduction to Innovation Funding from BIRAC for Academics and Researchers : PACE (AIR and CRS)	Premnath V	62	6.5
5	03-Dec-2021	Introduction to Intellectual Property Rights (IPR), introduction to basics of patent search and its techniques	Poorvashree Joshi, Rambha Chaudhary	75	-
6	20-Jan-2022	Workshop on Technology Valuation and IP Due Diligence	Ashley Stevens	51	6.5
7	25-Feb-2022	Socially responsible licensing of drugs and vaccines: The role of public sector R&D in the discovery of drugs and vaccines	Ashley Stevens	-	-
8	28-Feb-2022	Preparatory Course for Patent Agent Examination	Srividya Ravi, Archana Joshi, Poorvashree Joshi, Chirag Dighe, Andrey Fernandes	19	-
9	03-Mar-2022	Incubating drug discovery technologies and startups: Insights from Emory University's non-profit DRIVE model: David Perryman	David Perryman	-	5.7
10	28-May-2022	Talk on Discovering your Career: Innovation and Entrepreneurship	Premnath V	45	-
11	01-Jun-2022	Translation of Healthcare Innovations: Lessons Learned from the US and Emory University	Todd Sherer	74	5.8
12	06-Jun-2022	COMMERCIALIZING NEW TECHNOLOGY: LESSONS FROM THE TRENCHES	Rakesh Dhawan	72	5.6
13	26-Jul-2022	Grant writing workshop	Smita Kale	-	-
14	03-Aug-2022	Essentials of scientific entrepreneurship	Premnath V, Smita Kale	-	-
15	22-Sep-2022	How to Build a Startup (Modern College Batch 1)	Premnath V, Mugdha Lele	27	6.8
16	23-Sep-2022	How to Build a Startup (Modern College Batch 2)	Mugdha Lele	27	6.7
17	12-Oct-2022	NCL TEC - An introduction to scientific entrepreneurship and visit to Venture Center	Premnath V, Mugdha Lele	44	6.4
18	13-Oct-2022	Product Development Lifecycle	Sandeep Karode	53	6.7
19	18-Nov-2022	Valuing Intellectual Property	Ashley Stevens	21	6.5
20	22-Nov-2022	Techniques of Patent Search Analytics	Poorvashree Joshi	54	-
21	03-Jan-2023	Technique of Patent Search and Analysis for Agri-innovations	Poorvashree Joshi	37	-
22	20-Jan-2023	How to take your Ideas from Academia to Market	Multiple	12	6.4
23	31-Jan-2023	Lessons from failed enterprises and entrepreneurs	Shailendra Vyakarnam	69	6.4
24	09-Feb-2023	How to Build a Startup (Poona College of Pharmacy)	Premnath V, Mugdha Lele, Sharvari Naik	30	6.7
25	13-Mar-2023	Preparatory Course for Patent Agent Examination	Archana Joshi, Srividya Ravi, Nitin Shukla-Tewari, Niranjana Yeole	10	-
26	18-Mar-2023	How to Build a Startup (Institute of Chemical Technology)	Mugdha L, Kavita P, Soma Chattopadhyay	37	6.6
27	07-Apr-2023	How to Build a Startup (MIT WPU SOB)	Premnath V, Mugdha L, Kavita P, Soma Chattopadhyay, Sharvari Naik	18	6.2

List of Training Events and Workshops					
Sr No.	Date	Workshop Name	Speakers	No. of Participants	Feedback Rating
28	20-Apr-2023	Talk on Building Products and Advancing Technologies in Personal Care, Food & Beverages and Health & Wellness Sectors	Vilas Sinkar	102	6.6
29	20-Apr-2023	Mentoring Clinic on Building Products and Advancing Technologies in Personal Care, Food & Beverages and Health & Wellness Sectors	Vilas Sinkar	11	-
30	01-Jun-2023	How to Build a Startup (PKC)	Premnath V, Mugdha Lele, Kavita Parekh, Sharvari Naik	17	6.6
31	03-Jul-2023	Mini Workshop on How to Build a Startup (DES Physiotherapy College) under Innovation Catalyst Program	Kavita Parekh, Mugdha Lele, Sharvari Naik	26	6.2
32	20-Jul-2023	Mini Workshop on How to Build a Startup (Satral) (Under Gemini Graaphics CSR funding)	Kavita Parekh, Mugdha Lele, Sharvari Naik	31	6
33	31-Jul-2023	How to Build a Startup (MGMITB)	Premnath V, Mugdha Lele, Kavita Parekh, Sharvari Naik	25	5.9
34	31-Jul-2023	Mini Workshop on How to Build a Startup (DES Physiotherapy College) under Innovation Catalyst Program	Premnath V, Kavita Parekh, Mugdha Lele, Sharvari Naik	22	5.7
35	17-Aug-2023	Mini Workshop on How to Build a Startup (Dervan) (Under Gemini Graaphics CSR funding)	Premnath V, Soma C, Kavita Parekh, Mugdha Lele, Sharvari Naik	28	6.8
36	23-Aug-2023	Funding Opportunity for Early Stage Entrepreneurs for MGM School of Physiotherapy	Shalini Singh	120	-
37	25-Aug-2023	Mini Workshop on How to Build a Startup (Indira College of Pharmacy)	Premnath V, Kavita Parekh, Mugdha Lele, Sharvari Naik	25	6.8
38	28-Aug-2023	Mini Workshop on How to Build a Startup (Dr DY Patil Vidyapeeth, Pune)	Kavita Parekh, Mugdha Lele, Sharvari Naik	23	6.7
39	30-Aug-2023	Value Proposition Fit and Product Market fit for Dr. D. Y. Patil Vidyapeeth, Pune.	Soma Chattopadhyay	50	-
40	03-Oct-2023	Mini Workshop on How to Build a Startup (Dapoli) (Under Gemini Graaphics CSR funding)	Premnath V, Soma C, Kavita Parekh, Mugdha Lele, Sharvari Naik	30	6.8
41	20-Oct-2023	Mini Workshop on How to Build a Startup (Modern College Shivajinagar)	Premnath V, Kavita Parekh, Mugdha Lele, Sharvari Naik	48	6.7
42	21-Nov-2023	Customer Discovery and Value Proposition Design for Tech Innovations	Sundara Nagarajan	16	6.7
43	11-Dec-2023	How to take your ideas from academia to market (From Academia to Industrial Application) for Researchers and Faculty for MGM under Innovation Catalyst Program	Multiple	17	6.9
44	13-Dec-2023	How to take your ideas from academia to market (From Academia to Industrial Application) for Researchers and Faculty for DES Brijlal Jindal College of Physiotherapy under Innovation Catalyst Program	Multiple	13	6.5
45	10-Jan-2024	Mini Workshop on How to Build a Startup (MGM University) under Innovation Catalyst Program	Kavita Parekh, Mugdha Lele, Sharvari Naik	45	6.8
46	12-Jan-2024	Mini Workshop on How to Build a Startup (Baramati) (Under Gemini Graaphics CSR funding)	Kavita Parekh, Mugdha Lele, Sharvari Naik	24	6.4
47	05-Feb-2024	Technology Licensing Master Class	Ashley Stevens	25	7

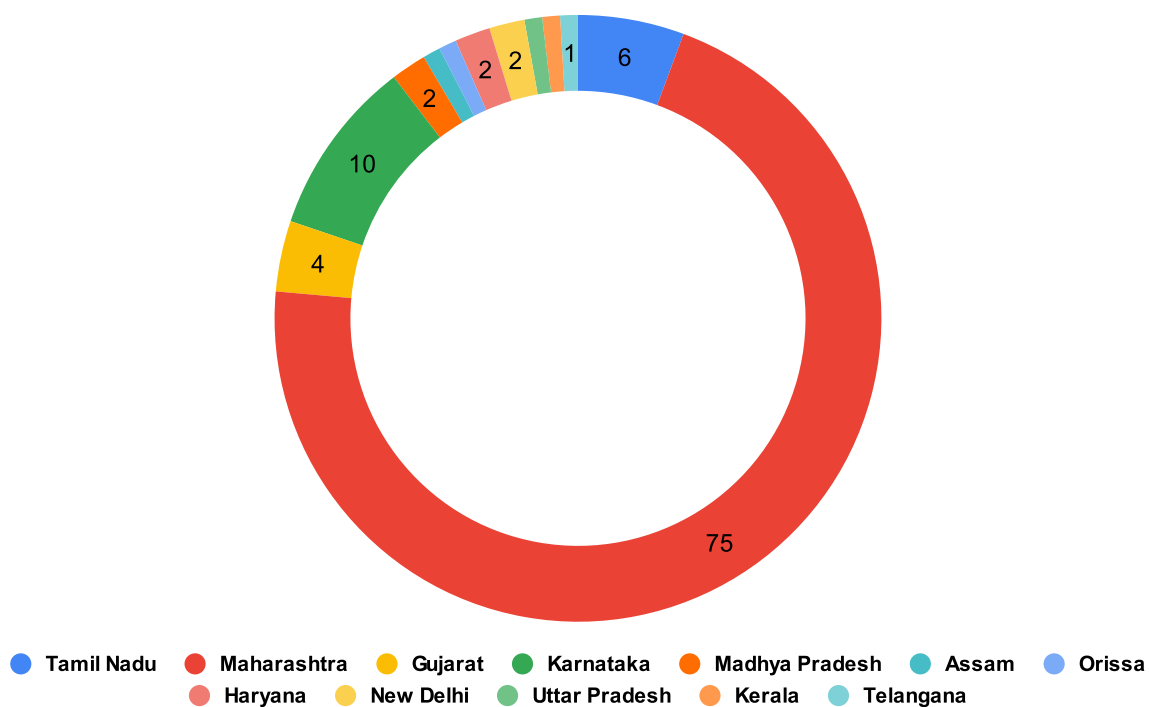
List of Training Events and Workshops					
Sr No.	Date	Workshop Name	Speakers	No. of Participants	Feedback Rating
48	06-Feb-2024	Triple Helix Model of Innovation	Ashley Stevens	75	7
49	07-Feb-2024	Institutional Policies to Promote Technology Transfer: Best practices	Ashley Stevens	20	7
50	24-Feb-2024	Mini Workshop on How to Build a Startup (Pen - Raigad) (Under Gemini Graaphics CSR funding)	Premnath V, Kavita Parekh, Sharvari Naik	28	6.3
51	22-Mar-2024	Mini Workshop on How to Build a Startup (NCL-TEC)	Premnath V, Kavita Parekh, Sharvari Naik	17	6.7
52	27-Mar-2024	Mini Workshop on How to Build a Startup (Nashik) (Under Expanded Polymer Systems CSR funding)	Mugdha Lele, Kavita Parekh	30	6.97
53	20-Apr-2024	Mini Workshop on How to Build a Startup (Nashik) (Under Expanded Polymer Systems CSR funding)	Mugdha Lele, Kavita Parekh	23	6.96
54	07-Jun-2024	Workshop on : Identifying, defining and assessing inventions for patent protection strategy	V Premnath, Srividya Ravi, Anuya Nisal, Richa Arya	-	-
55	24-Jul-2024	Mini Workshop on How to Build a Startup(Kashti) (Under Gemini Graaphics CSR funding)	Mugdha Lele, Kavita Parekh, Niruta Killedar	33	6.75
56	10-Jul-2024	Faculty workshop How to take your Ideas from academia to market (DES Smt Subhadra K Jindal College of Nursing under Innovation Catalyst Program	Dr Sinkar, Premnath, Srividya Ravi,Mugdha Lele, Kavita Parekh	18	6.6
57	11-Jul-2024	Faculty workshop How to take your Ideas from academia to market (DES Smt Subhadra K Jindal College of Nursing under Innovation Catalyst Program	Dr Sinkar, Premnath, Srividya Ravi,Mugdha Lele, Kavita Parekh	18	6.6
58	11-Jul-2024	Paid talk at Training Program on Innovation and Entrepreneurship at Dr DY Patil Institute of Pharmaceutical Sciences and Research, Pimpri	Vidula Walimbe	-	-
59	12-Jul-2024	Paid talk at Training Program on Innovation and Entrepreneurship at Dr DY Patil Institute of Pharmaceutical Sciences and Research, Pimpri	Kavita Parekh	-	-
60	21-Aug-2024	Mini Workshop on How to Build a Startup (Nashik) (Under Gemini Graaphics CSR funding)	V Premnath, Kavita Parekh, Niruta Killedar	28	6.64
61	13-Sep-2024	Mini Workshop on How to Build a Startup (Junnar) (Under Gemini Graaphics CSR funding)	V Premnath, Kavita Parekh, Niruta Killedar, Vedang Pawar	34	6.89
62	19-Sep-2024	Mini Workshop on How to Build a Startup(Kavathemahakal, Sangli) (Under Gemini Graaphics CSR funding)	Mugdha Lele, Kavita Parekh, Niruta Killedar, Vedang Pawar	29	6.6
63	26-Sep-2024	Mini Workshop on How to Build a Startup(Ahmednagar) (Under Gemini Graaphics CSR funding)	Mugdha Lele, Kavita Parekh, Niruta Killedar, Vedang Pawar	27	6.8
64	01-Oct-2024	Mini Workshop on How to Build a Startup(Kavathemahakal, Sangli) (Under Expanded Polymers CSR funding)	Mugdha Lele, Kavita Parekh, Niruta Killedar, Vedang Pawar	33	6.8
65	09-Oct-2024	Mini Workshop on How to Build a Startup(SB Patil College of Engineering, Indapur) (Under Expanded Polymers CSR funding)	Mugdha Lele, Kavita Parekh, Niruta Killedar, Vedang Pawar	28	6.96
66	14-Oct-2024	Mini Workshop on How to Build a Startup (DES Nursing College) (Under Innovation Catalyst Program)	Mugdha Lele, Kavita Parekh, Niruta Killedar, Vedang Pawar	50	6.6

List of Training Events and Workshops					
Sr No.	Date	Workshop Name	Speakers	No. of Participants	Feedback Rating
67	25-Oct-2024	Mini Workshop on How to Build a Startup (NCL-TEC)	Premnath V, Kavita Parekh, Vedang Pawar, Meghana Bhandari	17	6.3
68	29-Nov-2024	IP Introduction and IP strategy for Startups	AJ	-	-
69	04-Dec-2024	M-Clinic at SLAP	AJ	6	-
70	5 Nov-7 Dec 2024	Patent Agent Exam Preparatory Course	Srividya Ravi, Archana Joshi, Richa Arya, Mamatha R, Gopakumar Nair and Multiple Speakers	26	6.6
71	17-Dec-2024	Mini Workshop on How to Build a Startup (Pune Knowledge Cluster Foundation)	Mugdha Lele, Kavita Parekh, Vedang Pawar	29	6.5
72	19-Dec-2024	Mini Workshop on How to Build a Startup(Sanjivani College of Pharmacy, Kopargaon) (Under Expanded Polymers CSR funding)	Mugdha Lele, Kavita Parekh, Vedang Pawar	22	6.9
73	24-Dec-2024	Mini Workshop on How to Build a Startup (Indira College of Pharmacy)	Mugdha Lele, Kavita Parekh, Vedang Pawar	41	6.67
TOTAL				2232	6.6

Appendix 7: Statewise distribution of IP clients

Statewise Distribution of IP Clients

Total: 106

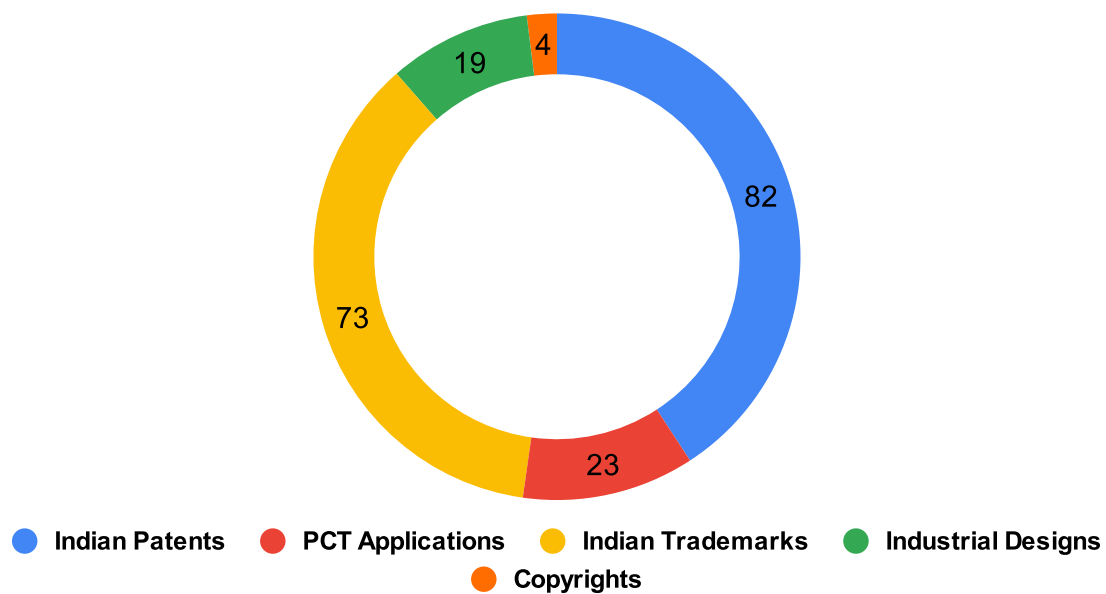


*Detailed information available on request

Appendix 8: Distribution of IP filings

Distribution of IP filings

Total: 201

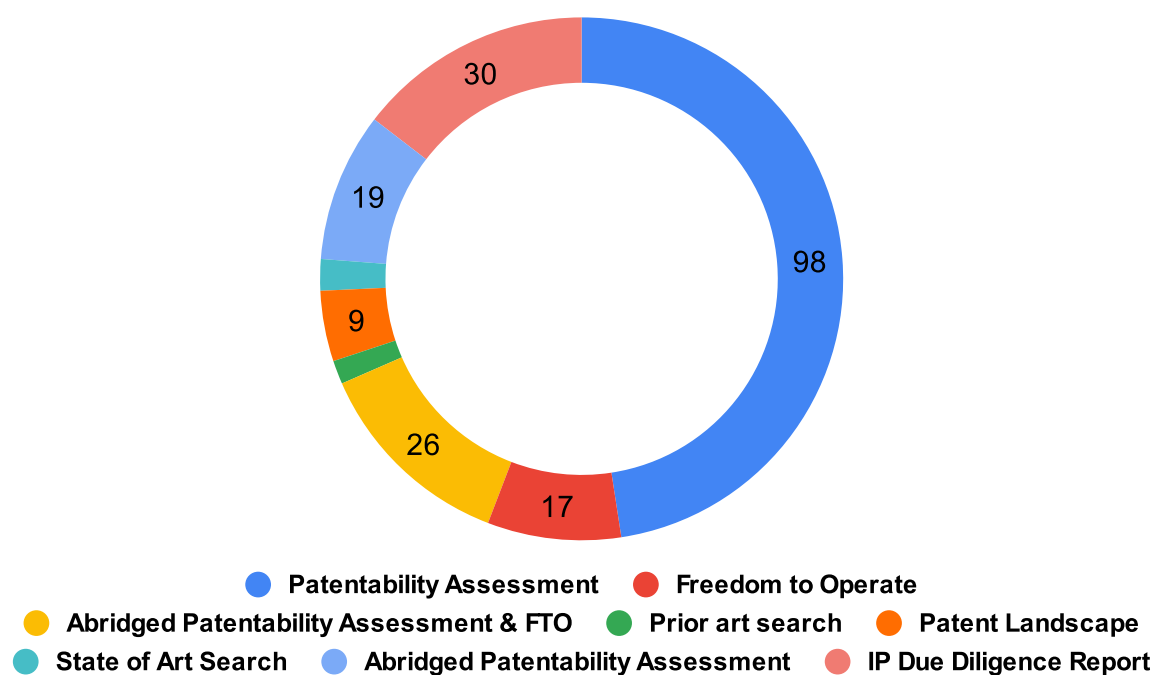


*Detailed information available on request

Appendix 9: Distribution of IP reports and opinions

Distribution of IP Reports and Opinions

Total: 206



*Detailed information available on request

Appendix 10: List of clients supported with funding support

List of Clients Supported with Funding Support			
Sr No	Name of the client	Application number	Service provided
1	DeeDee Labs Pvt Ltd	202121021812	IN: PS filing
2	DeeDee Labs Pvt Ltd	202021020579	IN: CS filing
3	Ouija Biosolutions Pvt Ltd	PCT/IN2021/050585	PCT application filing
4	CNR Medimentor Pvt Ltd	PCT/IN2021/050645	PCT application filing
5	Virtis Biolab pvt ltd	201841034177	IN: Request for Examination
6	Anatomech Pvt Ltd	202121041303	IN: PS filing
7	Ouija Biosolutions Pvt Ltd	202021025144	IN: Request for Examination
8	DeeDee Labs Pvt Ltd	PCT/IN2022/050014 (202021049128)	PCT application filing
9	Teralumen Solutions Pvt Ltd	PCT/IN2022/050571 (202141012592)	PCT application filing
10	SH ForHealth Solutions Private Limited	PCT/IN2022/050578 (202121028715)	PCT application filing
11	Anatomech Pvt Ltd	PCT/IN2022/050822 (202121041303)	PCT application filing
12	Pacify Medical Technologies Pvt Ltd	PCT/IN2022/050895	PCT application filing
13	Denovo Bioinnovations Pvt Ltd.	PCT/IN2022/050917	PCT application filing
14	RUT3 Engineering Pvt Ltd	PCT/IN2022/051077	PCT application filing
15	GPC lifesciences Pvt Ltd	202221075386	IN: PS filing
16	Aerodel Technologies LLP	PCT/IN2022/051130	PCT application filing
17	Ekam Rehab Tech Pvt Ltd	202343006825	IN: CS filing (Patent of Addition)
18	Anatomech Pvt Ltd	202121041303	IN: Request for Examination
19	DeeDee Labs Pvt Ltd	202121021812	IN: Request for Examination
20	Promorphosis Pvt Ltd	201921004049	IN: Request for Examination
21	GPC lifesciences Pvt Ltd	202321015229	IN: PS filing
22	MACS-Agharkar Research Institute	PCT/IN2023/050351	PCT application filing
23	Rut3	PCT/IN2022/051077	PCT application filing: Search fee (IN search authority)
24	GPC lifesciences	202221075386	IN: PS filing
25	Aerodel Technologies LLP	PCT/IN2022/051130	PCT application filing: International filing fee
26	Aerodel Technologies LLP	PCT/IN2022/051130	PCT application filing: Search fee (IN search authority)
27	Ekam Rehab Tech Pvt Ltd	202343006825	IN: CS filing (Patent of Addition)
28	Anatomech Pvt Ltd	202121041303	IN: Request for Examination
29	DeeDee Labs Pvt Ltd	202121021812	IN: Request for Examination

List of Clients Supported with Funding Support			
30	Promorphosis Pvt Ltd	201921004049	IN: Request for Examination
31	GPC lifesciences	202321015229	IN: PS filing
32	MACS-ARI	PCT/IN2023/050351	PCT application filing-search fee (IN search authority)
33	MACS-ARI	PCT/IN2023/050351	PCT application filing-International filing fee
34	Fastsense Diagnostics	202423001611	IN: Patent of addition (CS)
35	Fastsense Diagnostics	202423001611	IN: Request for Examination
36	Mobius Orthoassist Pvt Ltd	PCT/IN2024/050202	PCT application filing: International filing fee
37	GPC Lifesciences Pvt Ltd	202421013962	IN: PS filing
38	Hrimtron Energy Systems Pvt Ltd	202421030416	IN: PS filing
39	Social Lab Environmental Solutions Pvt Ltd	PCT/IN2024/050504	PCT application filing: International filing fee
40	Raytom Medical Systems Pvt Ltd	202441036593	IN: PS filing
41	Caldor Health Technologies Pvt Ltd	202441048174	IN: PS filing
42	Easiofy Solutions Pvt Ltd	PCT/IN2024/051522	PCT application filing: International filing fee
43	GPC Lifesciences Pvt Ltd	202221075386	IN: Request for Examination
44	Ekam Rehab Tech Pvt Ltd	202343006825	IN: Request for Examination
45	Padcare Labs Pvt Ltd	202421065235	IN: PS filing
46	Bharga Biotech and Re-Energy Solutions Pvt Ltd	PCT/IN2024/051546	PCT application filing: International filing fee
47	DES Brijlal Jindal College of Physiotherapy	202421071301	IN: PS filing
48	GPC Lifesciences Pvt Ltd	202421073056	IN: PS filing
49	Healyantra Healthcare Innovations Pvt Ltd	PCT/IN2024/051914	PCT application filing: International filing fee
50	Onicares Education Pvt Ltd	202421079174	IN: PS filing
51	SparshMind Innovations Pvt Ltd	202421081996	IN: PS filing
52	Suryudey Plastic Electronics Pvt Ltd	202421084444	IN: PS filing
53	Vidcare Innovations Pvt Ltd AND IIT-M	PCT/IN2024/052178	PCT application filing: International filing fee
54	GPC Lifesciences Pvt Ltd	202321015229	IN: Request for Examination
55	Intignus Biotech Pvt Ltd	PCT/IN2024/052317	PCT application filing: International filing fee
56	ForschMedx Pvt Ltd	PCT/IN2025/050094	PCT application filing: International filing fee

Appendix 11: List of Tech Briefs finalised

List of Tech Briefs Finalised	
TechBrief No.	Title
TechBrief/2020/01	BMek- Non contact thermometer
TechBrief/2020/02	Pune Faceshield by EDC action group
TechBrief/2020/03	Thermal scanner
TechBrief/2020/04	A Deployable Toilet System: A toilet for a non sewer system
TechBrief/2021/01	MH12 N95 masks
TechBrief/2021/03	Process for manufacturing γ -Valerolactone (Gvl) from Levulinic Acid (LA)
TechBrief/2021/04	Portable, user-friendly, low cost potentiostat - LapPot
TechBrief/2021/05	Multipurpose, low-cost, disposable plastic chip electrodes
TechBrief/2021/06	Curd strip that can set customized and consistent quality curd anytime anywhere!
TechBrief/2021/07	Lightweight, easy-to-assemble face shield that offers full face coverage
TechBrief/2021/08	Continuous process for manufacture of Azelaic acid- an API and Industrial additive
TechBrief/2021/09	Novel degradable polyoxalates from renewable monomers for coating and film applications
TechBrief/2021/10	UV Shielding Bio-derived Furanic Polymers
TechBrief/2021/11	Highly yield production of bacterial nano- cellulose useful for making medical and personal care products
TechBrief/2021/12	Novel low-cost process for the manufacturing of high quality α -Arbutin
TechBrief/2021/13	Novel method for synthesis of cetearyl alcohol using fermentation technology
TechBrief/2021/14	One-pot process for the production of the prebiotic substance, 4'-galactosyl-kojibiose
TechBrief/2021/15	Bio-manufacturing of low calorie sweetener D-allulose using novel enzyme
TechBrief/2021/16	Sustainable production of camptothecin from a high yielding endophyte
TechBrief/2021/17	Eco-friendly novel phenalkamines as curing agents for industrial coatings
TechBrief/2021/18	Novel microbial method for synthesis of C15 and C17 linear chain alkanes
TechBrief/2021/19	Bio-derived polyols with varying hydroxylation levels for rigid PU foams and PU dispersions
TechBrief/2022/01	Trastuzumab
TechBrief/2022/02	Ranibizumab
TechBrief/2022/03	Ranibizumab
TechBrief/2022/04	Adalimumab
TechBrief/2022/05	Anakinra
TechBrief/2022/06	Cost effective cyclic process to produce free flowing industrial grade and refined edible NaCl
TechBrief/2022/07	Mitochondria Targeting Non-Isocyanate Polyurethane Nanocapsules for drug delivery and imaging
TechBrief/2022/08	Highly UV shielding, flexible, transparent and luminescent PMMA composite films
TechBrief/2022/09	Durable low-cost portable oxygen concentrator designed for rural areas
TechBrief/2022/10	Colorimetric paper strip detector for detection of 2,4,6-TNP/Picric acid from water, soil and explosives
TechBrief/2022/11	One pot synthesis of flavoring ketones such as ginger and raspberry ketones
TechBrief/2023/01	TransReCon: A novel vial adaptor drug reconstitution device
TechBrief/2023/02	A low-cost mobility device that affords independent indoor and outdoor mobility for the immobile and geriatric population
TechBrief/2023/03	Elevar: A self operated manual backrest for bedridden patients
TechBrief/2023/04	IDA M-Series I prosthetic hands: a lowcost high utility mechanical prosthetic hand

List of Tech Briefs Finalised	
TechBrief No.	Title
TechBrief/2023/05	A smart defecation cleansing assistive device for the immobile population.
TechBrief/2023/06	A portable robotic physiotherapy device for multi-limb rehabilitation and functional training
TechBrief/2023/07	Certolizumab PEGOL
TechBrief/2023/08	Insulin Detemir
TechBrief/2023/09	Bio-derived 'drop-in' replacement for di-isocyanates in polyurethane production
TechBrief/2023/10	CNSL-derived novel initiator for solution polymerization of styrene-butadiene/SBS rubbers
TechBrief/2023/11	Rapid colorimetric method for real-time and on-site monitoring of water quality in low resource settings
TechBrief/2023/12	Polysaccharide-based nanoemulsion for curcumin delivery with enhanced bioactivity and bioavailability
TechBrief/2023/13	Encapsulation of probiotic spores as fortification strategy for functional foods
TechBrief/2023/14	Mini implant placement guiding device
TechBrief/2023/15	A Composition Useful In Developing An Artificial Bone Marrow- Like Environment
TechBrief/2023/16	A self-supporting surgical device and its use in creation of arteriovenous fistula
TechBrief/2023/17	Nutraceutically enriched beverage
TechBrief/2023/18	Tumor deconstruction platform for the analysis of intra-tumor heterogeneity
TechBrief/2023/19	High-yield process for natural astaxanthin production
TechBrief/2023/20	A novel compound for the selective staining and detection of lysosomes in cells
TechBrief/2023/21	Anti-virulence formulation from microalgal lipids against Vibrio Cholerae
TechBrief/2023/22	A protein based product from Fenugreek Seeds for the management of dyslipidemia and obesity
TechBrief/2023/23	A novel heterogenous iridium catalyst for the preparation of formic acid / formate
TechBrief/2023/23	A novel heterogenous iridium catalyst for the preparation of formic acid / formate
TechBrief/2023/24	Jaipur Belt - An exoskeleton to assist manual workers
TechBrief/2023/25	Bio-manufacturing of Xylo-oligosaccharide / Xylobiose for prebiotic application
TechBrief/2023/26	Industrial production of Shikonin and its derivatives for food colorants
TechBrief/2023/27	Trehalose
TechBrief/2023/28	NANO-AmB An Antifungal Product For Effective Antifungal Activity and Reduced Toxicity
TechBrief/2023/29	Rapid Multiplexed LFA for On-site Aflatoxin B1 and Ochratoxin Detection
TechBrief/2023/30	Whitespot syndrome: On-farm viral disease diagnostic for aquaculture
TechBrief/2023/31	DMSO Fractionation: Unveiling Cow Urine's Anti-Cancer Arsenal
TechBrief/2023/32	Harnessing Goat Urine's Potential: Fighting Cancer Cell Proliferation
TechBrief/2023/33	Vertical Tube Gel Electrophoresis: A Cost-Effective Approach to Fractionate Low Molecular Weight Compounds
TechBrief/2023/34	BioBreeze: Revolutionizing Air Quality with BioBreeze: Revolutionizing Air Quality with Biological Air Purification
TechBrief/2023/35	BioMetalGuard: Metal Removal from Aqueous Solutions with Nature's Aid
TechBrief/2024/01	A novel bioengineering approach to restoring periodontal inflammatory bone loss
TechBrief/2025/01	"PathCrisp"- CRISPR based diagnostic platform for Salmonella testing in the food industry (Meat and Animal Feed)

List of Tech Briefs Finalised	
TechBrief No.	Title
TechBrief/2025/02	“PathCrisp”- CRISPR based diagnostic platform for Foot-and-mouth disease virus (FMDV) Detection Test for cattle health
TechBrief/2025/03	Affordable aptamer based detection of Ochratoxin A in poultry and animal feed
TechBrief/2025/04	Affordable aptamer based detection of Aflatoxin M1 in milk and dairy products
TechBrief/2025/05	Quadmastest: Reagent –free detection device for subclinical mastitis in dairy animals
TechBrief/2025/06	Paashavya: On-field detection kit for preventive screening of lumpy skin disease virus in cattle
Total	76

Appendix 12: List of entries in the Technology Database

List of Entries in Technology Database	
Sr No.	Title
1	3D foldable N95 face mask
2	A Composition Useful In Developing An Artificial Bone Marrow- Like Environment
3	A Compound For The Detection Of Bio-thiols And Process For Preparation Thereof
4	A Deployable Toilet System: A toilet for a non sewer system
5	A low-cost high utility mechanical prosthetic hand
6	A low-cost mobility device that affords independent indoor and outdoor mobility for the immobile and geriatric population
7	A novel compound for the fluorescence or luminescence-based detection of adenine
8	A novel compound for the fluorescence-based detection of biothiols
9	A novel compound for the selective staining and detection of lysosomes in cells
10	A novel heterogenous iridium catalyst for the preparation of formic acid / formate
11	A process for the preparation of flavoring ketones
12	A protein based product from Fenugreek Seeds for the management of dyslipidemia and obesity
13	A self-supporting surgical device and its use in creation of arterio venous fistula
14	A smart defecation cleansing assistive device for the immobile population.
15	Adalimumab Biosimilar
16	Advanced Detonation Spray Coating Technology
17	Affordable aptamer based detection of Aflatoxin M1 in milk and dairy products
18	Affordable aptamer based detection of Ochratoxin A in poultry and animal feed
19	Anti-virulence formulation from microalgal lipids against Vibrio Cholerae
20	Antibacterial Coatings for Glass, Metals, Plastics and Fibres
21	Bio-derived 'drop-in' replacement for di-isocyanates in polyurethane production
22	Bio-manufacturing of low-calorie sweetener D-allulose using novel enzymes
23	Biosimilar Anakinra production
24	Broadband Antireflective (BAR) Coatings for PV Application
25	C15 and C17 paraffins for personal care & fuel additive applications from microbial technology
26	Certolizumab Pegol
27	Cold Gas Dynamic Spray Coating
28	Colorimetric paper strip detector for detection of 2,4,6-TNP/Picric acid from water, soil and explosives
29	Continuous integrated platform for the manufacturing of Ranibizumab Biosimilar
30	Continuous process for the manufacture of Azelaic acid - an API and Industrial Additive
31	Cost effective cyclic process to produce free flowing industrial grade and refined edible NaCl (common salt)
32	Cost-effective process for manufacturing γ -Valerolactone from Levulinic Acid
33	Cost-efficient Solar Receiver Tube Technology for Low & Medium Temperature Solar Thermal Applications

List of Entries in Technology Database	
Sr No.	Title
34	CRISPR based diagnostic platform for foot-and-mouth disease virus for cattle health
35	CRISPR based diagnostic platform for Salmonella testing in the food industry (Meat and Animal Feed)
36	Curd strip that can set customized and consistent quality curd anytime anywhere!
37	Device To Detect Subclinical Mastitis In Cows
38	Electrode Materials for Li-ion Batteries and Supercapacitor for Electric Vehicles (EV) Application
39	Elevar: A self operated manual backrest for bedridden patients
40	Encapsulation of probiotic spores as fortification strategy for functional foods
41	High yield production of bacterial nanocellulose (BNC) useful for making medical and personal care products.
42	High-yield process for natural astaxanthin production
43	Highly UV shielding, flexible, transparent and luminescent PMMA composite films
44	IDA M-Series I prosthetic hands: a lowcost high utility mechanical prosthetic hand
45	Insulin Detemir
46	Jaipur Belt - exoskeleton
47	Lightweight, easy-to-assemble face shield that offers full face coverage
48	Manufacture of sodium chloride and potassium chloride of any percentage ratio (low sodium edible salt) from mixed salt/bittern and manufacture of pure potassium chloride therefrom
49	Microbial cetearyl alcohol for cosmetic & pharmaceutical applications
50	Microbial process for the synthesis of camptothecin, an anti-cancer compound and starting material
51	Mini Implant Placement Guiding Device
52	Mitochondria Targeting Non-Isocyanate Polyurethane Nanocapsules for drug delivery and imaging
53	Multipurpose, low-cost, disposable plastic chip electrodes
54	NONISOCYANATE POLYURETHANE NANOCAPSULES (NIPU) for drug delivery and imaging
55	Novel degradable polyoxalates from renewable monomers for coating and film applications
56	Novel process for the manufacturing of α -Arbutin as a freckles-reducing cosmetic ingredient
57	Nutraceutically enriched beverage
58	One-pot process for the production of the prebiotic substance, 4'-galactosyl-kojibiose
59	Paashavya: On-field detection kit for preventive screening of lumpy skin disease virus in cattle
60	Paper strip detector for detection of 2,4,6-TNP/Picric acid from water, soil and explosives
61	PEM Fuel Cell Based Power Supply Systems
62	Personalized wheelchair with motorized add-on
63	Polysaccharide based nanoemulsion for curcumin delivery

List of Entries in Technology Database	
Sr No.	Title
64	Portable, user-friendly, low cost potentiostat - LapPot
65	Process for high yield biosynthesis of bacterial nanocellulose from indigenous bacteria
66	Process for recovery of common salt, potassium chloride and high purity magnesia from brine in an integrated manner
67	Process for the preparation of solar salt reduced levels of trace impurities, and having high purity and whiteness suitable for edible and industrial applications
68	Process for the recovery of high purity salts - sodium chloride and sodium sulphate from crudes (sulphate-rich brine)
69	Production of industrial grade high purity salt from sea water/subsoil and lake brines suitable for chlor-alkali manufacture
70	Pulsed Electro-deposition Technology
71	Pune Face Shield
72	Ranibizumab Biosimilar from CSIR- NCL
73	Rapid colorimetric method for real-time and on-site monitoring of water quality in low resource settings
74	Robotic Device for Physical Rehabilitation & Functional Training
75	Sahayatha: A smart defecation cleansing assistive device for the immobile population
76	Self-operated manual backrest for bedridden patients
77	Simple, cost effective powder metallurgy process with a nano additive for fabricating dispersion strengthened tungsten (W) plates
78	Smart Carbon-TiO ₂ Technology for Paint Applications
79	Thermal Imaging Scanner with Edge Computing
80	TransReCon: A novel vial adapter drug reconstitution device
81	Tumor deconstruction platform for the analysis of intra-tumor heterogeneity
82	UV Shielding Bio-derived furanic polymers

Appendix 13: List of research groups featured

List of Research Groups Featured			
Sr No	Name	Affiliation	Location
1	Virendra Gajbhiye	Agharkar Research Institute	Pune
2	Vandana Ghormade	Agharkar Research Institute	Pune
3	Anjali Jha	Agharkar Research Institute	Pune
4	Aloke Das	IISER Pune	Pune
5	Prasad Padmakar Kulkarni	Aghakar Research Institute	Pune
6	Pratibha Srivastava	Aghakar Research Institute	Pune
7	Chetan Kapadnis	Vishwakarma University	Pune
8	Nitin Satpute	Vishwakarma University	Pune
9	Shraddha Khamparia	Vishwakarma University	Pune
10	Sayan Goswami	Ahmedabad University	Ahmedabad
11	Siddharth Jabade	Vishwakarma University	Pune
12	Kaushik Jana	Vishwakarma University	Pune
13	Alok Bhushan Shukla	Ahmedabad University	Ahmedabad
14	Abhishek Baghela	Aghakar Research Institute	Pune
15	Dhananjay Bodas	Aghakar Research Institute	Pune
16	Sumit Singh Dagar	Aghakar Research Institute	Pune
17	Prashant Dhakephalkar	Aghakar Research Institute	Pune
18	Amrita Hazra	IISER Pune	Pune
19	Yogesh A. Karpe	Aghakar Research Institute	Pune
20	Jyutika M. Rajwade	Aghakar Research Institute	Pune

Appendix 14: Scouting R&D/ technology partners for industry

Scouting R&D/ Technology Partners for Industry					
Sr No.	Problem Statement	Number of Prospects obtained by TechEx.in	Number of Leads given by TechEx.in	Leads shortlisted by the client	Number Leads being pursued by the client
1	Rheology modifiers	20	6	0	0
2	Biodegradable polymers	20	7	0	0
3	Biodegradable surfactant	25	10	1	1
4	Manufacturing of C16-C22 range fatty acids	10	4	2	1
5	Developing and manufacturing the branched chain alcohols, called Guerbet alcohols.	10	5	1	0
6	Biofermentation or Biocatalytic processes in the oleo spaces for manufacturing the fatty esters	10	2	1	0
7	Synthesis of oligos (primers) and fluorescent oligos	20	9	1	1
8	Development of multiplex lyo ready real time RTPCR master mix indigenously	20	10	1	1
9	Rheology modifier	25	10	2	1
10	Biodegradable stain remover for cleaning or cleansing products	40	12	2	0
11	Fermentation technologies/ facilities	15	7	2	2
12	Sustainable sourcing/ toll manufacturing of caprylic/ capric triglyceride	20	3	abandoned as per request from client	
13	Beetroot stabilization	20	7	6	1
14	Natural Betaine manufactugin process	5	3	1	1
15	Alkyl polyglucoside (Decyl glucoside) process and manufacturing partner	15	7	1	0
16	AKD Wax manufacturing process/ technology	15	7	2	1
17	Tertiary amines process or manufacturing plants	10	5	0	0
18	Readily biodegradable rheology modifiers for use in personal care products	25	13	1	0
19	Seeking a biodegradable, nature-derived solution for providing sensory and conditioning for hair care applications	30	11	2	2
20	A biodegradable, nature-derived film former with equal or superior performance in makeup attributes.	20	14	1	0
21	Solubility Enhancers : ingredients that solubilize / entraps / disperse / change crystalline structure to transform hydrophobic API (BCS II/IV) into soluble / absorbable forms	40	21	1	1
22	Permeation enhancers : ingredients / technologies that would enable permeation (or enhancement of permeation) of high MW APIs to peptides/proteins to be delivered at target application area (i.e. skin or intestine)	20	9	3	2
23	Nutra: Natural & “Stable” delivery technologies for liquid (water based) formulations	30	17	9	5
Total		415	173	28	13

Appendix 15: List of technology showcases

List of Technology Showcases					
Sr No.	Date	Name	Duration (hr)	No. of Pitches	No. of Attendees
1	9th April 2021	Renewable Chemicals and Materials Matchmaker - Showcase 1	3	8	62
2	16th April 2021	Renewable Chemicals and Materials Matchmaker - Showcase 2	3	8	84
3	31st August 2021	Biosilimar Molecules and R&D Capabilities Matchmaker	3	4	51
4	3rd March 2022	Rehabilitation Products Matchmaker	2.5	6	52
5	3rd Feb 2023	Sustainable Ingredients for Food & Nutrition Matchmaker	3	6	89
6	12th Oct 2023	Sustainable Ingredients for Skin and Personal Care	3	4	70
7	26th Oct 2023	Sustainable Ingredients for Food and Additives	2.5	4	79
8	11th Dec 2024	Diagnostics for Veterinary applications	2	6	50
Total			22	46	537

Appendix 16: List of technologies featured in technology showcases

List of Technologies Featured in Technology Showcases				
Sr No.	Technology Name	Technology Provider	Affiliation	Showcased in
1	CNSL-derived novel initiator for solution polymerization of styrene-butadiene/SBS rubbers	Prakash Wadgaonkar	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 1
2	CNSL-derived novel, property-modifying difunctional (co)monomers for commercial polymers	Prakash Wadgaonkar	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 1
3	Bio-derived 'drop-in' replacement for di-isocyanates in polyurethane production	Prakash Wadgaonkar	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 1
4	Improved novel phenalkamines as curing agents for industrial coatings from CNSL	Anagha Sabnis	ICT, Mumbai	Renewable Chemicals and Materials Matchmaker - Showcase 1
5	Bio-derived polyols with varying hydroxylation levels for rigid PU foams and PU dispersions	K I Suresh	CSIR IIIST, Thiruvananthapuram	Renewable Chemicals and Materials Matchmaker - Showcase 1
6	Process for manufacturing γ -Valerolactone (Gvl) from Levulinic Acid (LA)	Kannan Srinivasan	CSIR CSMCRI, Bhavnagar	Renewable Chemicals and Materials Matchmaker - Showcase 1
7	Bio-derived diacetal co-monomers and polyacetals for modifying commercial polyacetals	Samir Chikkali	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 1
8	Novel degradable polyoxalates from renewable monomers for coating and film applications	Samir Chikkali	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 1
9	Bio-manufacturing of low calorie sweetener D-allulose using novel enzyme	Sudhir Singh	CIAB, Mohali	Renewable Chemicals and Materials Matchmaker - Showcase 2
10	One-pot process for the production of the prebiotic substance, 4'-galactosyl-kojibiose	Sudhir Singh	CIAB, Mohali	Renewable Chemicals and Materials Matchmaker - Showcase 2
11	Novel process for the manufacturing of α -Arbutin as a freckles-reducing cosmetic ingredient	Sudhir Singh	CIAB, Mohali	Renewable Chemicals and Materials Matchmaker - Showcase 2
12	Microbial cetearyl alcohol for cosmetic & pharmaceutical applications	Syed Shams Yazdani	DBT-ICGEB, Delhi	Renewable Chemicals and Materials Matchmaker - Showcase 2
13	C15 and C17 paraffins for personal care & fuel additive applications from microbial technology	Syed Shams Yazdani	DBT-ICGEB, Delhi	Renewable Chemicals and Materials Matchmaker - Showcase 2
14	Highly yield production of bacterial nano- cellulose useful for making medical and personal care products	Syed Dastager	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 2
15	Continuous process for manufacture of Azelaic acid- an API and Industrial additive	Amol Kulkarni	CSIR NCL, Pune	Renewable Chemicals and Materials Matchmaker - Showcase 2
16	Microbial process for the synthesis of camptothecin, an anti-cancer compound and starting material	Smita Srivastava	IIT Madras, Madras	Renewable Chemicals and Materials Matchmaker - Showcase 2
17	Trastuzumab, Ranibizumab and others	Anurag Rathore	IIT Delhi, Delhi	Biosilimar Molecules and R&D Capabilities Matchmaker
18	Insulin Detemir, Certolizumab PEGOL and others	Natasa Skoko	DBT-ICGEB, Trieste	Biosilimar Molecules and R&D Capabilities Matchmaker
19	Adalimumab and others	Pradip Sen	CSIR IMTECH, Chandigarh	Biosilimar Molecules and R&D Capabilities Matchmaker
20	Ranibizumab, Anakinra and others	Rahul Bhambure	CSIR NCL, Pune	Biosilimar Molecules and R&D Capabilities Matchmaker
21	Sahayatha	Shruthi Babu	Dhanvantri Biomedical Pvt Ltd	Rehabilitation Products Matchmaker
22	NeoFly and NeoBolt	Siddarth Daga	NeoMotion Assistive Technologies Pvt Ltd	Rehabilitation Products Matchmaker
23	JaipurBelt	Ganesh Jangir	Newndra Innovations Pvt Ltd	Rehabilitation Products Matchmaker
24	Mechanical Prosthetic hand	Manan Issar	Piltover Technologies Pvt Ltd	Rehabilitation Products Matchmaker
25	Robotic Device for Physical Rehabilitation & Functional Training	Chirag Shah	Rymo Technologies	Rehabilitation Products Matchmaker
26	Eleva	James T J	Creativiti Council	Rehabilitation Products Matchmaker
27	Novel process for the manufacturing of Trehalose, a high-value rare sugar	Sudhir Singh	CIAB, Mohali	Sustainable Ingredients for Food & Nutrition Matchmaker
28	Industrial production of Shikonin and its derivatives for food colorants	Shashi Bhushan	CSIR IHBT, Palampur	Sustainable Ingredients for Food & Nutrition Matchmaker
29	Technological platform for encapsulation of nutraceuticals as functional foods	Anirban Roy Choudhury	CSIR IMTECH, Chandigarh	Sustainable Ingredients for Food & Nutrition Matchmaker
30	High-yield process for natural Astaxanthin production	Shashi Kumar Rhode	DBT-ICGEB, Delhi	Sustainable Ingredients for Food & Nutrition Matchmaker
31	Bio-manufacturing of XOS/ Xylobiose for prebiotic application	Naseem Gaur	DBT-ICGEB, Delhi	Sustainable Ingredients for Food & Nutrition Matchmaker
32	Polysaccharides based nanoemulsion for delivery of nutraceuticals	Anirban Roy Choudhury	CSIR IMTECH, Chandigarh	Sustainable Ingredients for Food & Nutrition Matchmaker

List of Technologies Featured in Technology Showcases				
Sr No.	Technology Name	Technology Provider	Affiliation	Showcased in
33	High-Yielding Bioprocess For Pullulan Using Novel Indigenous Strain	Anirban Roy Choudhury	CSIR IMTECH, Chandigarh	Sustainable Ingredients for Skin and Personal Care
34	Green technology for synthesis of cetearyl alcohol	Syed Shams Yazdani	DBT-ICGEB, Delhi	Sustainable Ingredients for Skin and Personal Care
35	Bioderived furanic polymers as skin friendly sunscreen	Kannan Srinivasan	CSIR CSMCRI, Bhavnagar	Sustainable Ingredients for Skin and Personal Care
36	Sustaiaable bioprocess for synthesis of green paraffins	Syed Shams Yazdani	DBT-ICGEB, Delhi	Sustainable Ingredients for Skin and Personal Care
37	Novel Functional Food Ingredients With Bioderived Co-encapsulation Of Probiotics and Nutrients	Anirban Roy Choudhury	CSIR IMTECH, Chandigarh	Sustainable Ingredients for Food and Additives
38	Exopolysaccharides For Probiotic Fortification And Food Processing	Madhavan Nampoothiri	CSIR-NIIST	Sustainable Ingredients for Food and Additives
39	Novel Enzyme And Process For Biosynthesis Of D-Allulose	Sudhir Singh	CIAB, Mohali	Sustainable Ingredients for Food and Additives
40	One-Pot Process For Biosynthesis Of Kojibiose On An Industrial Scale	Sudhir Singh	CIAB, Mohali	Sustainable Ingredients for Food and Additives
41	“PathCrisp”- CRISPR based diagnostic platform for Salmonella testing in the food industry (Meat and Animal Feed)	Vandana Hegde	CrisprBits Private Limited	Diagnostics for Veterinary applications Matchmaker
42	“PathCrisp”- CRISPR based diagnostic platform for Foot-and-mouth disease virus (FMDV) Detection Test for cattle health	Vandana Hegde	CrisprBits Private Limited	Diagnostics for Veterinary applications Matchmaker
43	Affordable aptamer based detection of Ochratoxin A in poultry and animal feed	Dr.V.Koteswara Rao	CSIR-National Chemical Laboratory	Diagnostics for Veterinary applications Matchmaker
44	Affordable aptamer based detection of Aflatoxin M1 in milk and dairy products	Dr.V.Koteswara Rao	CSIR-National Chemical Laboratory	Diagnostics for Veterinary applications Matchmaker
45	Reagent free Point-of-care Subclinical Mastitis detection device for dairy animals	Dr. Ragul Paramasivam	Chimertech Private Limited	Diagnostics for Veterinary applications Matchmaker
46	Paashavya: Diagnostic kit for detection of Lumpy Skin Disease virus	Dr Dhanasekaran Shanmugam	CSIR-National Chemical Laboratory	Diagnostics for Veterinary applications Matchmaker

Appendix 17: List of leads generated for technology providers

List of Leads Generated for Technology Providers			
Sr No	Technology Seeker/ Party	Location	Technology Interested in
1	ZeroPlast Labs	Pune	Coatings
2	Arkema	France	Polyols
3	Arkema	France	Di-functional comonomers
4	Arkema	France	Initiators
5	Arkema	France	Di-isocyanates
6	Manali Petrochemicals	Chennai	Di-isocyanates
7	Elkay Chemicals	Pune	Bacterial nanocellulose
8	ChemSci Innovations	Pune	Bacterial nanocellulose
9	ZeroPlast Labs	Pune	Bacterial nanocellulose
10	CropG1 Agro Research & Development Pvt. Ltd.	Bangalore	Bacterial nanocellulose
11	Elkay Chemicals Pvt Ltd	Pune	Azelaic acid
12	Arkema France	France	Azelaic acid
13	Thinq Pharma CRO Ltd	Mumbai	Azelaic acid
14	Elkay Chemicals Pvt Ltd	Pune	Cetearyl Alcohol
15	Elkay Chemicals Pvt Ltd	Pune	Paraffins
16	Arkema France	France	Cetearyl Alcohol
17	Arkema France	France	Paraffins
18	Thinq Pharma CRO Ltd	Mumbai	Cetearyl Alcohol
19	Thinq Pharma CRO Ltd	Mumbai	Allulose
20	Thinq Pharma CRO Ltd	Mumbai	Kojibiose
21	Thinq Pharma CRO Ltd	Mumbai	Arbutin

List of Leads Generated for Technology Providers			
Sr No	Technology Seeker/ Party	Location	Technology Interested in
22	Thinq Pharma CRO Ltd	Mumbai	Camptothecin
23	ZeroPlast Labs,Pune	Pune	Polyoxalates
24	Brahamaputra Techno Pharmaceuticals Pvt. Ltd.	Guwahati	Bacterial nanocellulose
25	Ozone Research & Applications India Pvt Ltd	Nagpur	Azelaic acid
26	Vijaynagar Sugar Pvt Ltd	Hyderabad	Allulose
27	KK Kompounding	Mumbai	Di-isocyanates
28	KK Kompounding	Mumbai	Polyols
29	Evonik Industries AG	Mumbai	Bacterial nanocellulose
30	Samarth Life Sciences Pvt Ltd	Tumkur	Ranibizumab
31	Samarth Life Sciences Pvt Ltd	Tumkur	Asparagine
32	Orbit Pharmaceuticals	Ahmedabad	Ranibizumab
33	Orbit Pharmaceuticals	Ahmedabad	Trastuzumab
34	Orbit Pharmaceuticals	Ahmedabad	Other capabilities
35	Orbit Pharmaceuticals	Ahmedabad	Ranibizumab
36	Orbit Pharmaceuticals	Ahmedabad	Other capabilities
37	Loreal India Pvt Ltd	Bangalore	Paraffins
38	Lubrizol Advanced Materials Pvt Ltd	Mumbai	Bacterial nanocellulose
39	International Flavours and Fragrances Inc	Hyderabad	Allulose
40	International Flavours and Fragrances Inc	Hyderabad	Kojibiose
41	International Flavours and Fragrances Inc	Hyderabad	Arbutin
42	IUVA Foods Pvt Ltd	Bangalore	Allulose
43	IUVA Foods Pvt Ltd	Bangalore	Kojibiose
44	Lubrizol Advanced Materials Pvt Ltd	Mumbai	Arbutin
45	Godrej Consumer Products Ltd	Mumbai	Paraffins
46	Lubrizol Advanced Materials Pvt Ltd	Mumbai	Paraffins
47	Lamark Biotech	Bangalore	Insulin Degludec
48	Bright Edge Biotech	Baroda	Allulose
49	Sanovaskale Technologies Private Limited	Pune	Allulose

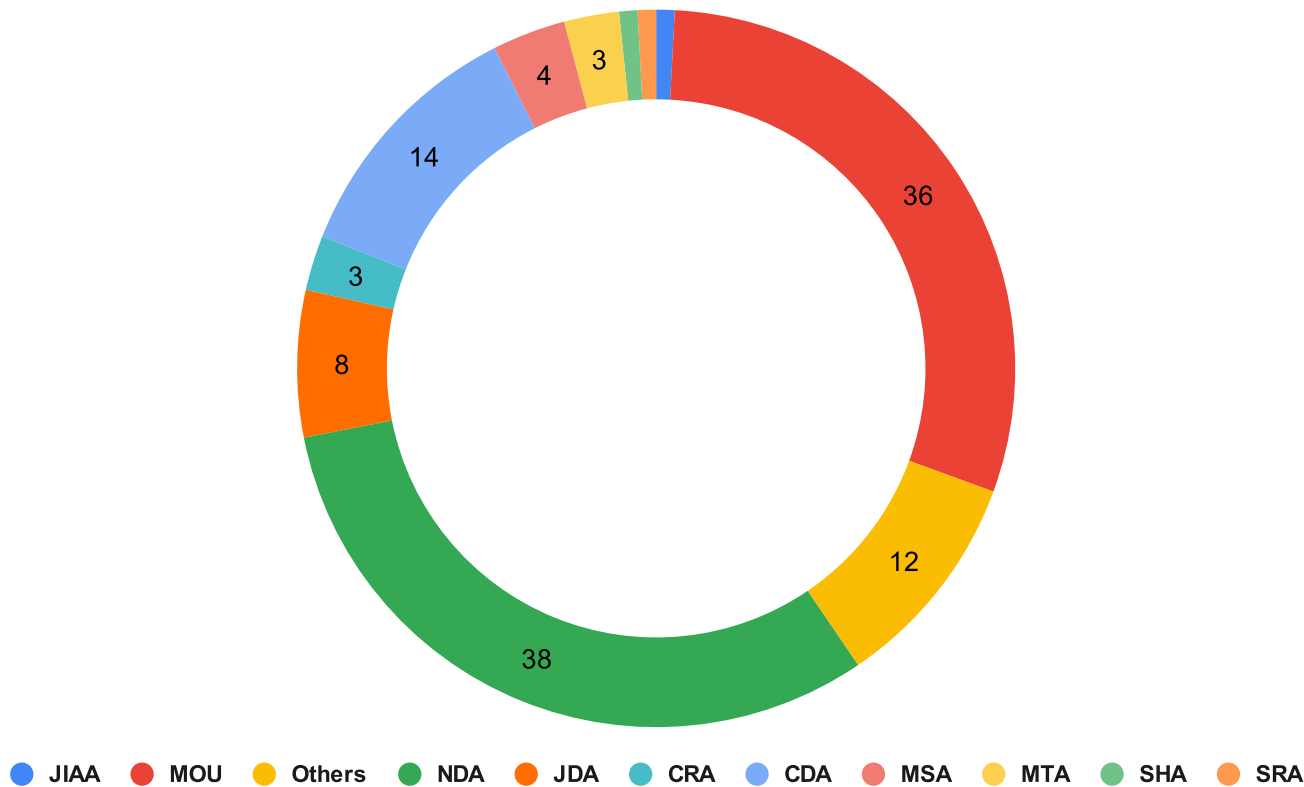
List of Leads Generated for Technology Providers			
Sr No	Technology Seeker/ Party	Location	Technology Interested in
50	Sanovaskale Technologies Private Limited	Pune	Paraffins
51	Reliance Retail	Bangalore	Coencapsulation
52	Kothari sugars and chemicals limited	Nungambakkum	Allulose
53	Luminol Biopharma	Chennai	Ranibizumab
54	Luminol Biopharma	Chennai	Other capabilities
55	Kashiv Biosciences	Ahmedabad	Certolizumab
56	Mycovation	Mysore	Kojibiose
57	Mycovation	Mysore	Coencapsulation
58	Lubrizol Advanced Materials Pvt Ltd	Mumbai	Pullulan
59	Manufact Analysis	N/A	Paraffins
60	AVT Naturals	Aluva	Allulose
61	Lubrizol Advanced Materials Pvt Ltd	Mumbai	EPS

Appendix 18: List of projects supported under Proto Alpha Accelerator

List of Projects Supported under Proto Alpha Accelerator				
Sr No.	Name of ProtoAlpha grantee	Project Title	Need Adressed	Agreements
1	Aken Sanghavi	Early Prototype development of wearable Vibrational Therapy Device	To address the problem of low bone mineral density in the lumbar spine of patients because of osteoporosis/osteopenia.	JDA, Licensing, SHA
2	Dr Pradeep Mahajan	Early Prototype development of wearable Functional Electrical Stimulation Device	Functional electrical stimulation to the muscles in order to restore movement in paralysed patients. The wearable solution will greatly reduce costs of set-up and administration of FES for patients with greater efficiency.	JDA
3	Jitesh Pandey	Prototype development of bilirubin measurement device	Current methods of screening neonatal jaundice are either dependent on visual judgment, traumatizing and time-taking methods, or costly alternatives. The non invasive bilirubin measurement device is designed and developed to screen neonatal jaundice in a cheaper, faster & painless way.	JDA, Licensing, SHA
4	Dr Neeraj Gugnani	Prototype development of Smart & Connected Toothbrush Holder	A technological solution that empowers manual toothbrush users to brush in a smarter way by following the recommended timings while brushing and also provides them with an option to longitudinally monitor their brushing data in terms of duration and frequency, facilitating the determination of their risk for disease.	JDA
5	Dr Avijan Sinha	Prototype development of Reflex Board	Stroke patients and other patients who have undergone upper arm surgery need to improve their reflex. Thus, there is a need for a device with time and speed control the monitor and improve the reflex.	JDA, Licensing, SHA
6	Manish Kumar	Early workable prototype development of animal ICU application	To streamline the communication between farmers or owners of the animals with veterinary doctors and the market, and capture data for further analysis.	JDA

Appendix 19: Distribution of collaboration agreements facilitated

Total: 121



*Detailed information available on request

Key:

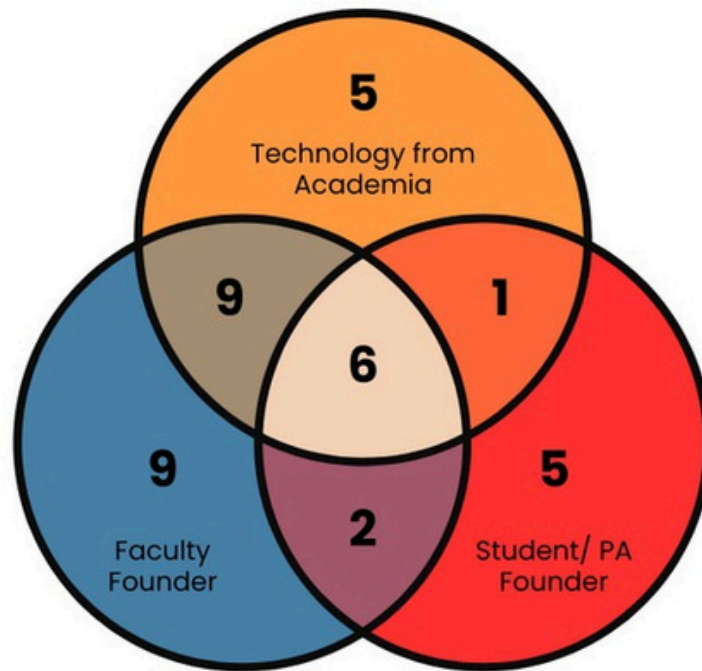
- JIAA: Joint Invention Administration Agreement
- MOU: Memorandum of Understanding
- NDA: Non-disclosure Agreement
- JDA: Joint Development Agreement
- CRA: Contract Research Agreement
- CDA: Confidential Disclosure Agreements
- MSA: Master Service Agreement
- MTA: Material Transfer Agreement
- SHA: Shareholders' Agreement
- SRA: Sponsored Research Agreement
- Others: Licensing and Tech Transfer

Appendix 20: List of deals facilitated

List of Deals Facilitated		
Sr No.	Date initiated	Type
1	NA	Creative Commons Attribution- Non-commercial- ShareAlike4.0
2	NA	Creative Commons Attribution- Non-commercial- ShareAlike4.0
3	NA	Non-exclusive technology license
4	22/04/2020	Exclusive license
5	28/04/2020	Knowhow License Agreement
6	10/11/2020	Technology option/ evaluation agreement
7	10/11/2020	Technology option/ evaluation agreement
8	10/11/2020	Cell line licensing
9	10/11/2020	Technology option/ evaluation agreement
10	20/10/2021	Patent & Knowhow Assignment agreement
11	06/10/2021	Patent & Knowhow Assignment agreement
12	06/10/2021	Patent & Knowhow Assignment agreement
13	27/12/2021	Patent & Knowhow Assignment agreement
14	11/02/2022	Patent & Knowhow Assignment agreement
15	11/02/2022	Patent & Knowhow Assignment agreement
16	01/08/2022	Knowhow License Agreement
17	02/09/2022	Knowhow License Agreement
18	07/05/2022	Term sheets/HoA/ Deal Structure
19	15/11/2022	Term sheets/HoA/ Deal Structure
20	2/11/2022	Technology Licensing Agreement Draft
21	10/01/2023	Term sheets/HoA/ Deal Structure
22	18/01/2023	Patent & Knowhow License Agreement
23	11/01/2023	Patent & Knowhow Assignment agreement
24	23/11/2022	Technology Licensing
25	23/08/2022	Tech License Agreement
26	08/06/2020	Patent Assignment Agreement
27	08/09/2023	Term sheets/HoA/ Deal Structure
28	12/09/2023	Patent & Knowhow Assignment agreement
29	15/06/2023	Term sheets/HoA/ Deal Structure
30	02/11/2023	Technology Licensing Agreement Draft & Term sheets/HoA/ Deal Structure
31	17/08/2023	Term sheets/HoA/ Deal Structure
32	13/03/2024	Patent & Knowhow Assignment agreement
33	08/10/2021	Tech License Agreement
34	09/10/2020	Tech License Agreement
35	09/12/2024	Term sheets/HoA/ Deal Structure

Appendix 21: Profiles of new ventures supported

Profiles of New Ventures Supported



*Detailed information available on request

Appendix 22: Efforts in creating spinouts

Efforts Taken in Creating Spinouts				
Sr No.	Spinout Name	Founder 1	Founder 2	Founder 3
1	Rechargion	Vilas Shelke	Manjusha Shelke	John N
2	Zeroplast	Aditya Kabra	S Kadhavan	
3	Taviicare	Avijan Sinha		
4	RegenOrtho	Aken Sanghavi		
5	MedBlue Innovations	Jitesh Pandey		
6	Polyorbit	Mamoni Dash	Madan Dash	Biswaranjan Sahoo

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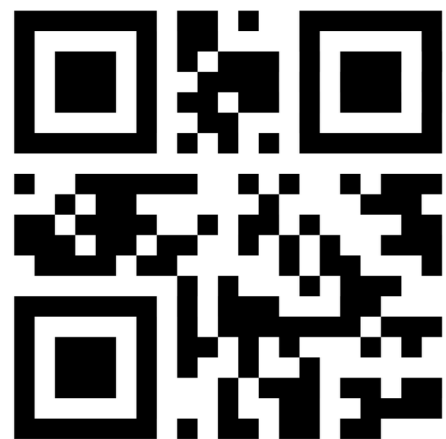
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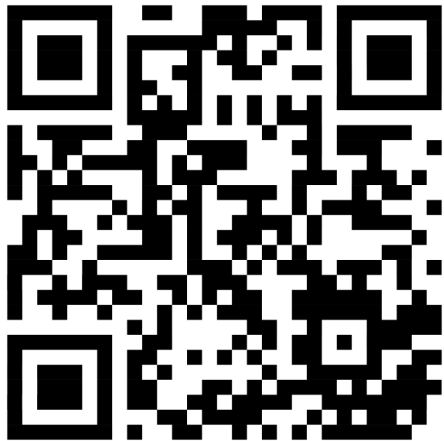


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Contact Us

Email

tto@venturecenter.co.in

Phone

+91 91564 65146

Address

TechEx.in,
Venture Center, 100, NCL Innovation Park,
Dr Homi Bhabha Road, Pashan,
Pune 411008, India