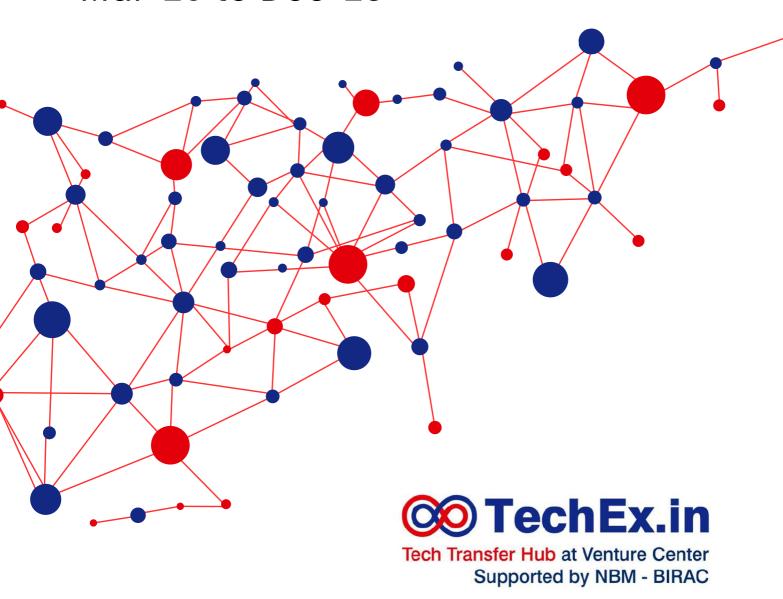
ACTIVITY & IMPACT & IMPACT REPORT

Mar '20 to Dec '23



Edits & Design: Sharvari N has edited, compiled & contributed to the designing and visual representation of data in the report Data Credits: Anjan K, Archana J, Ashutosh P, Devanshi P, Gayathry S, Kavita P, Kirti D, Lipika B, Madhu Smitha K, Manisha K, Manisha P, Mrunal T, Mugdha L, Namrata S, Neha J, Niruta K, Pallavi B, Pinky R, Poorvashree J, Pradnya A, Pratik M, Premnath V, Rambha C, Richa A, Sharvari N, Shruti D, Siddhi M, Sujaya I, Sujit B Vaishnavi P, Vidula W, Vineet J, Vinita P have contributed to the data & images extracted for generating the report.

Notes: The data in this report reflects activities from 18th March 2020 to

31st December 2023



Activity and Impact Report (March 2020 - December 2023)

Hosted by

Supported by







Highlights

160+

Invention Disclosures

57

Unique IN patent and PCT families filed

36

Trademarks and Industrial Designs filed

100+

IP Advisory Services given ₹ 14.2 lakhs

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

٦

Business Valuation Exercise Completed 61

Technology Marketing 1-pagers prepared



78

Collaboration Agreements Facilitated

7

Technology Showcases



40

Technology Pitches **29**

Technology Transfer Deals facilitated

17

Industrial Problem
Statements for
which
Technologies
Scouted

₹24 lakhs

> Revenue from TechNet





5

Spinouts



110+

New Venture Creations Supported

Highlights

75+

Assets on Technology Knowhow Database 36

Partnerships with Technology Developement Organizations 20

Scientist Capabilities Featured

89

Awareness Events



44

Workshops and Training Events 6.2/7

Feedback Rating for Events and Training



5700+

Events and Training
Beneficiaries

65+

Unique Speakers



49

Educational Videos on YouTube 280+

Hours of Watch Time on YouTube

197k+

Twitter Impressions 740+

LinkedIn Connections





12

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 knowhow transfer, deal structuring, and agreement drafting, thereby facilitating collaboration between Agharkar Research Institute (MACS-ARI) and GPS Renewables (GPSR) for the advancement of technology related to digestion enhanced anaerobic biogas generation from rice straw. The collaboration, formalized through technology transfer and collaboration agreement on Nov 18, 2022, focuses on



scaling up MACS-ARI's technology for commercially viable bio CNG production from ligno-cellulosic straws and stems. This effort aligns with the National SATAT program's goals, promoting sustainable transportation through Compressed Biogas (CBG) production. GPSR's successful acquisition of new know-how enhances its portfolio, contributing to a greener future in collaboration with major entities like Reliance and Indian Oil Corporation.



Spinning out of technology for novel rechargeable batteries: Scientists at CSIR-NCL have developed a laboratoryscale 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 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 MedBlue Innovations, support from the Venture Center's Proto Alpha Accelerator, successfully developed non-invasive bilirubin measurement device to address the global healthcare challenge of severe neonatal jaundice. Health care providers acknowledge worldwide neonatal jaundice as a "silent" cause of significant morbidity and mortality in newborns. In parallel, TechEx.in played a vital role in facilitating collaborative agreements, including joint development, shareholding, and licensing agreements



between Venture Center and MedBlue Innovations. This collaborative effort not only propelled the advancement of innovative solutions but also contributed to societal well-being by addressing critical healthcare needs.



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 patients of because osteoporosis/osteopenia. In TechEx.in played a vital role in facilitating collaborative agreements, including joint development, shareholding, and licensing agreements between Venture Center and RegenOrtho.

The knowhow 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 measuring response speed and effectiveness of rehabilitating patients: Taviicare, with support from the Venture Center's Proto Alpha Accelerator, successfully developed a device for measuring response speed effectiveness of rehabilitating patients. During rehabilitation of patients with brain injury or stroke, measurement of performance response time 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 Masks: High quality aerosol filtration face masks: Venture Center team (Pune Masks Action 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 2020) including design, prototyping, testing, setting up facility manufacturing and manufacturing it. Αll government 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 a satisfication. 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

It was the effort of the DBT-BIRAC-National Biopharma Mission where it was decided to establish Regional Technology Transfer Offices (RTTOs) to create the culture of technology commercialization 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 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 stakeholders various including researchers, students, teachers and start-ups.



Shirshendu Mukherjee Mission Director, Program Management Unit

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 patents, innovations, protecting transferring economic value and 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 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 Chief Manager-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 considerable documenting the 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 and have seen how they 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 leaders the network. the of



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

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.

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 industryrelevant technologies. Their dedicated team has employed various methods to identify potential technologies facilitate connections and between inventors and industry stakeholders. I am encouraged to witness concerted efforts academia-industry forging partnerships, which are crucial for India's longterm 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. While its focus is on research organisations in Maharashtra, Madhya Pradesh, Gujarat and Goa, it 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 technology funding, transfer, 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 SinkarChair
Retd. VP R & D,
Unilever



Vinita Jindal

Member
Chief Manager,
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



Poyni BhatMember
CEO, SINE, Mumbai



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
Chief Manager,
IP & Technology
Management, BIRAC



Manisha Premnath COO, Venture Center



Archana Joshi Associate Manager, IP Services, Venture Center



Tanvi Rangwala CEO, Venture Studio



Vinita Panchanadikar Ex. Chief Scientist, IP Group, CSIR- NCL



Premnath VDirector,
Venture Center

Past Members



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
Chief Manager,
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

Core Team



Pradnya A



Richa A



Kirti D



Archana J



Madhu Smitha K



Mugdha L



Siddhi M



Sharvari N



Pinky R



Manisha P



Kavita P



Vidula W

Core Team (Past Members)



Sujit B







Pratik M



Devanshi P



Rambha C



Ashutosh P





Mrunal T

Supporting Team



Neha J



Rohit J



Anuradha P



Priti R

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 in the West zone.
- Capacity development in tech transfer in the West zone 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, Al-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 '23, the TechEx.in team consisted of 23 members with different educational backgrounds out of which 12 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

23



Patent Agents

7



Fellow STEM

2



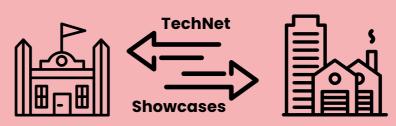
Team Members Trained in Technology Transfer

12



Registered Technology Transfer Professionals

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



YouTube Views

5 5k+



Hours of Watch Time



LinkedIn connections 740+



Twitter Impressions 197.3k+











"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 could benefit society.





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

TechEx.in faciliated 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.



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





























































SGSITS INCUBATION **FORUM SGSITS Incubation Forum**



SAGE











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



Videos on YouTube



Beneficiaries 4200+



Views on YouTube videos





Unique Speakers **55**+



Hours of Watch Time



Average Feedback Rating 6.1 out of 7

Thoroughly enjoyed this expert talk. Truly Insightful,

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.

Invigorating & Inspiring!!

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



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 in the West Zone.



Workshops



Unique Speakers 25+



Beneficiaries
1500+



Average Feedback Rating 6.4 out of 7



Facilitated TT Training for

7 Academic Innovation Managers



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





Invention Disclosures



Unique IN patent and PCT families filed

57



IPTMC Funds disbursed for IN and PCT filing

₹ 14.2 lakhs



Trademarks and Industrial Designs filed

36



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

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)

forhealth

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 pregrant 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
100+



Business Consulting Services



Hours of Professional Engagements



IP Protection Policy Prepared







"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 Knowhow Database (KHDB), 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).



Technology Marketing 1-pagers 61



Assets on AUTM IM



Assets on Technology Knowhow Database



Scientist Capabilities Featured

autm
innovation
marketplace

Impressions on AUTM IM
7700+





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 technology and facilitated discussions between CSMCRI and Cuho Biotechnology, 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



Repeat Clients

2



Problem Statements



Revenue Generated

₹ 24 lakhs



NDAs signed

Prospects Identified

Leads given to client

Leads Shortlisted by the Client

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 and (iv) Sustainable Ingredients



Themes Covered



Showcases Organized

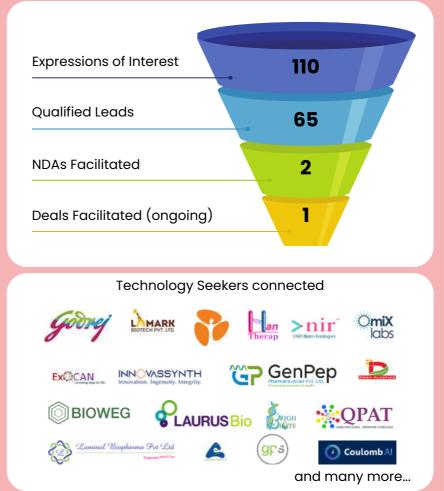


Technology Pitches



Technology Seekers
Connected
30





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

/



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.



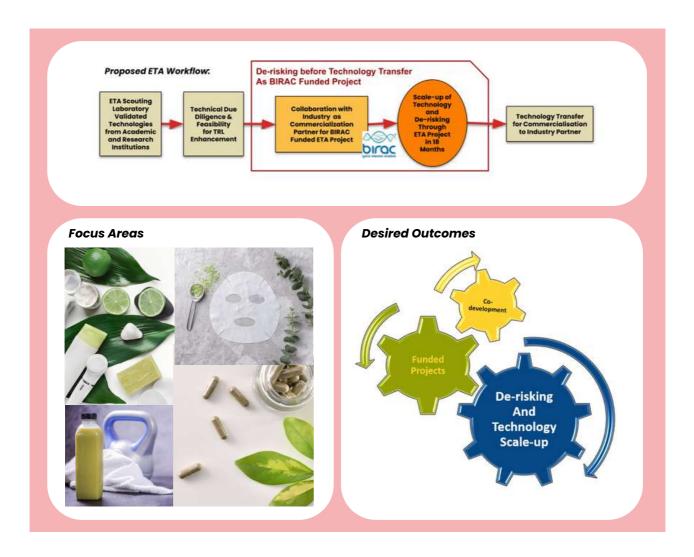
Number of Projects



Duration 18 months



Funding per project up to ₹200 Lakhs



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 Faciliated
78



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

5



New Venture Creations Supported

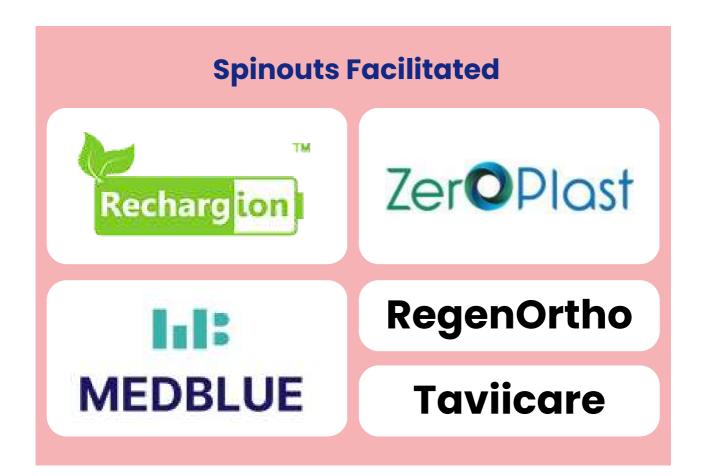


New Ventures with Technology Developed in an Academic Institution



New Ventures with Faculty or Student Founder

23



1.TechEx.in team members and their	A1
backgrounds 2.List of networking events organised/	A2
participated	
3.List of MoUs/ strategic partnership	А3
agreements signed	
4.List of awareness events	Α4
5.List of online videos created	A5
6.List of training events and workshops	A6
7.Statewise distribution of IP clients	Α7
8.Distribution of IP filings	A8
9.Distribution of IP reports and opinions	Α9
10.List of clients supported with funding support	A10
11.List of advisory assignments	A11
12.List of Tech Briefs finalised	A12
13.List of entries in the Knowhow Database	A13
14.List of research groups featured	A14
15.Scouting R&D/ technology partners for industry	A15
16.List of technology showcases	A16
17.List of technologies featured in technology	A17
showcases	, (1)
18.List of leads generated for technology	A18
providers	
19.List of projects supported under Proto Alpha	A19
Accelerator	
20.Distribution of collaboration agreements	A20
facilitated	
21.List of deals facilitated	A21
22.Profiles of new ventures supported	A22
23.Efforts in creating spinouts	A23

Appendix 1: TechEx.in team members and their backgrounds

	Te	echEx.in Team Members
Sr No.	Name	Background + Training
Core Te	eam	
1	Pradnya Aradhye	Registered Technology Transfer Professional, MTech IIT Kanpur in BSBE
2	Richa Arya	Patent Agent, PhD in Pharmaceutical Chemistry
3	Kirti Dubey	Post Graduation Diploma in Intellectual Property Rights, Advanced Diploma in Contract Drafting, Negotiation and Enforcement (Currently pursuing)
4	Archana Joshi	57 RTTP credits, Patent Agent, M.Sc. Organic Chemistry
5	Madhu Smitha Kode	M.S. Bioengineering
6	Mugdha Lele	57 RTTP Credits, Chevening Fellow (CRISP), PhD (Health Sciences)
7	Siddhi Mukhedkar	M.Tech Biotechnology
8	Sharvari Naik	M.Sc. Biotechnology
9	Kavita Parekh	57 RTTP credits, PhD (Health Sciences)
10	Manisha Premnath	Chevening Fellow (CRISP); 12 yrs of experince in tech commercialization, PhD (Biotechnology)
11	Pinky Raychaudhuri	57 RTTP credits, PhD (Chemical Biology)
12	Vidula Walimbe	Registered Technology Transfer Professional, PhD (Law)
Core Te	eam (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	Pratik Munot	M.Tech Biotechnology, Patent Agent, 57 RTTP Credits
5	Devanshi Patel	57 RTTP credits
6	Ashutosh Prachand	57 RTTP credits, Patent Agent
7	Mrunal Tare	Patent Agent, MTech in Process Instrumentation, 57 RTTP Credits
Suppor	ting Team	
1	Neha Jacob	CA/ CS
2	Rohit Joshi	BE(IT) + MBA(Ops)
3	Anuradha Purandare	M.Com
4	Priti Rathi	CA

Appendix 2: List of networking events organised/ participated

	List o	f Networking Ev	vents Organized	I
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
			Total	60

Appendix 3: List of MoUs/ strategic partnership agreements signed

Sr No.	Date Signed	Name of the Strategic Partner	Location	Services giver
1	03-Mar-2023	Advanced Centre for Treatment, Research and Education in Cancer	Mumbai	1
2		Agharkar Research Institute	Pune	64
3		Ahmedabad University	Ahmedabad	11
4		Ahmedabad University - Venture Studio	Ahmedabad	1
5	22-Sep-2023	AIC-RNTU Foundation, Rabindranath Tagore	Indore	0
6	17-Apr-2023	Birla Institute of Technology and Science (BITS)	Pilani	0
7	29-Sep-2020	200 200 200	Pune	4
8	·	College of Engineering Pune Technological University	Pune	0
9	04-Feb-2021	CSIR - Central Salt & Marine Chemicals Research	Bhavnagar	30
10	30-May-2023	D.E.S. Brijlal Jindal College of Physiotherapy	Pune	3
11	AND THE PARTY OF T	D.E.S. Subhadra K. Jindal College of Nursing	Pune	0
12	15-Dec-2020	Datta Meghe Institute of Higher Education &	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		DPU Foundation for Innovation, Incubation Entrepreneurship	Pune	0
16		Dr. D. Y. Patil Vidyapeeth	Pune	4
17		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	3
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	1
35	08-Mar-2023	Vasantdada Sugar Institute	Pune	0
36	00 Dec 2000	Vishwakarma University	Pune	16

Appendix 4: List of awareness events

Sr No.	Date	Event Name	Speakers	No. of	Feedback
essentine.	Transcensor.	EMPORTO CHICAGO CONT.	0.10000000	Participants	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	2
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			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 licensinsing for startups - Startup 101 talk series	Vidula Walimbe, Ashutosh Prachand, Archana Joshi	66	6
13	OMBERTANINE DESERVE ST	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
10.00		Awareness Talk for students and faculty of Singhgad	,	07777	1000 to
15	05-Jan-2021	Institute of Management	Archana Joshi	70	2
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	2
21	09-Mar-2021	Skill Development Program at NCL	Ashutosh Prachand	A:	*
22	11-Mar-2021	Skill Development Program at NCL	Archana Joshi	20	
23	17-Mar-2021	Awareness Talk at COEP	Archana Joshi	60	2
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	<u></u>
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		IPR awreness Talk-G H Raisoni college of Engineering	Archana Joshi	85	0 165

Sr No.	Date	Event Name	Speakers	No. of Participants	Feedback Rating
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
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	. 4
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	<u></u>
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	198

Sr No.	Date	Event Name	Speakers	No. of Participants	Feedback Rating
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	2
83	10-Oct-2023	Only Need Identification and Problem Definition!	Puskhar Ingale	61	6
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	튅	ā
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
		to 35. 30 to 37. 37.	Total	4207	6.1

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

		List of Online Videos Created		1
Sr No.	Date Published	Title	Views	Total Watch Duration (hh:mm:ss)
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
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

Sr No.	Date Published	Title	Views	Total Watch Duration (hh:mm:ss
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
		Total	2771	282:14:42

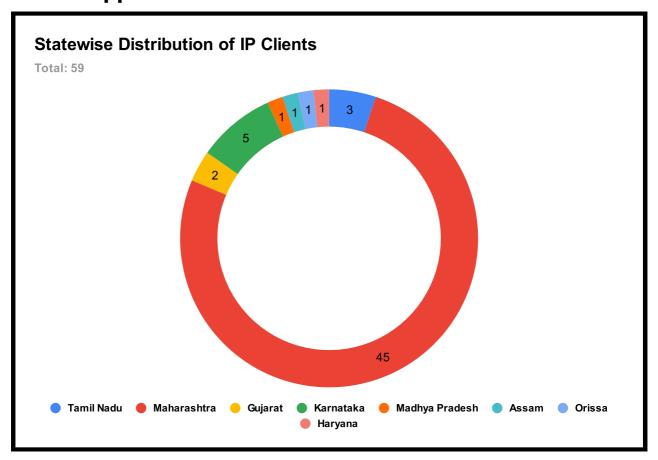
Appendix 6: List of training events and workshops

Sr No.	Date	Workshop Name	Speakers	No. of Participants	Feedback Rating
1	27-Sep-2021	Mini workshop on Tech commercialization	Premanth 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 Tiku, Vijay Paranjape	30	400
3	20-001-2021	An Introduction to Innovation Funding from BIRAC for	Faranjape	30	-
4	10-Nov-2021	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	
	00 200 2021	Workshop on Technology Valuation and IP Due	ramona onadanary	,,,	
6	20-Jan-2022	Diligence	Ashley Stevens	51	6.5
	05 5-1-0000	Socially responsible licensing of drugs and vaccines: The role of public sector R&D in the discovery of	A 11 Ot		
7	25-Feb-2022	drugs and vaccines	Ashley Stevens	-	*
8	28-Feb-2022	Preparatory Course for Patent Agent Examination	Srividya Ravi, Archana Joshi, Poorvahsree Joshi,Chirag Dighe, Andreya Fernandes	19	-
		Incubating drug discovery technologies and startups:			
9	03-Mar-2022	Insights from Emory University's non-profit DRIVE model: David Perryman	David Perryman		5.7
10		Talk on Discovering your Career: Innovation and Entrepreneurship	Land to concept support in any	45	
10	28-May-2022	Translation of Healthcare Innovations: Lessons	Premnath V	45	
11	01-Jun-2022	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	-	2
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
	40.0 / 0000	NCL TEC - An introduction to scientific	Premnath V,		
17		entrepreneurship and visit to Venture Center	Mugdha Lele	44	6.4
18		Product Development Lifecycle	Sandeep Karode	53	6.7
19		Valuing Intellectual Property	Ashley Stevens	21	6.5
20	03-Jan-2023	Techniques of Patent Search Analytics Technique of Patent Search and Analysis for	Poorvashree Joshi Poorvashree Joshi	54 37	-
22	A STATE OF THE STA	Agri-innovations How to take your Ideas from Academia to Market	Multiple	12	6.4
22	20-3411-2023	Flow to take your ideas from Academia to Market	Shailendra	12	0.4
23	31-Jan-2023	Lessons from failed enterprises and entrepreneurs	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, Niranjan Yeole	10	

Sr No.	Date	Workshop Name	Speakers	No. of Participants	Feedback Rating
26	18-Mar-2023	How to Build a Startup (Institute of Chemical	Mugdha L, Kavita P, Soma	37	6.6
27		Technology) How to Build a Startup (MIT WPU SOB)	Chattopadhyay Premnath V, Mugdha L, Kavita P, Soma Chattopadhyay, Sharvari Naik	18	6.2
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 (MGMIBT)	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	2
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	Sundara Nagarajan	16	6.7

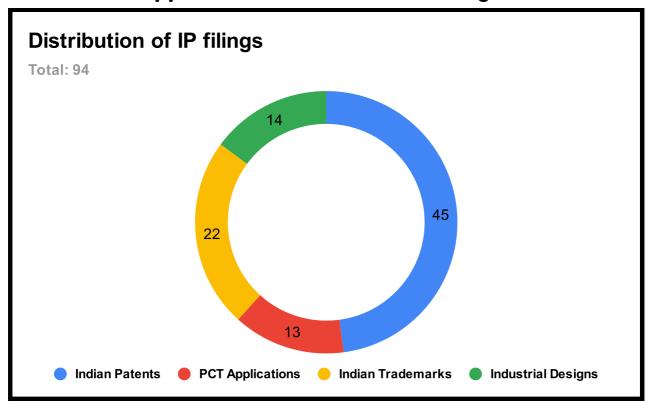
22/12/	No. of Feedback					
Sr No.	Date	Workshop Name	Speakers	Participants	Rating	
43	11-Dec-2023	How to take your ideas from academia to market (From Academia to Industrial Application) for Researchers and Faculty for MGM under Innovation Catalyst Program	Multiple	17	6.9	
44	13-Dec-2023	How to take 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	
44	13-Dec-2023		Multiple Total	120012000		

Appendix 7: Statewise distribution of IP clients



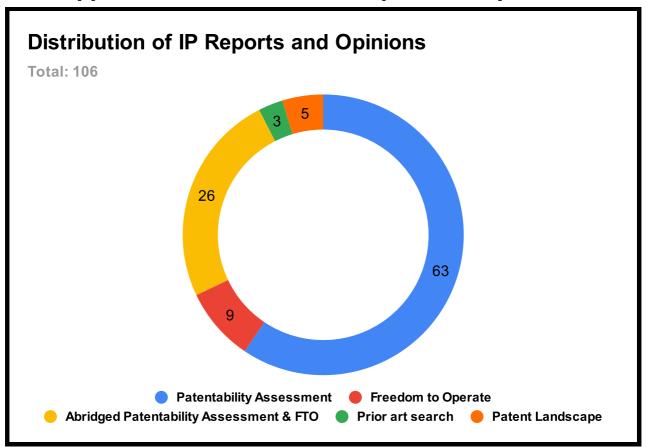
*Detailed information available on request

Appendix 8: Distribution of IP filings



*Detailed information available on request

Appendix 9: Distribution of IP reports and opinions



*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		
12/24					
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		

	List of Clients S	Supported with F	unding Support
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
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

Appendix 11: List of advisory assignments

Sr No	Team Member	Role	Event/ Client	Date Started	Date Ended	Hours
1	Archana Joshi	Speaker	ASM group of Institutes	31-Jul-2020	31-Jul-2020	1.5
2	Archana Joshi	Speaker	Awareness Talk for students and faculty of Singhgad Institute of Management	01-May-2021	01-May-2021	1
3	Archana Joshi	Speaker	Awareness Talk for students of Khalsa College, Mumbai	15-Jan-2021	15-Jan-2021	1
4	Archana Joshi	Speaker	Awareness Talk for students of DMIMS, Vardha	28-Jan-2021	28-Jan-2021	1
5	Archana Joshi	Speaker	Awareness Talk for students & scientists at ARI	04-Mar-2021	04-Mar-2021	1
6	Archana Joshi	Speaker	Skill Development Prog at NCL	11-Mar-2021	11-Mar-2021	2
7	Archana Joshi	Speaker	Awareness Talk at COEP	17-Mar-2021	17-Mar-2021	1.5
8	Archana Joshi	Speaker	IPR awareness-BIG awareness	18-Aug-2021	18-Aug-2021	0.5
9	Archana Joshi	Speaker	IPR awareness & strategy-BRBC city camp	27-Aug-2021	27-Aug-2021	1.25
10	Archana Joshi	Speaker	IPR awreness Talk-G H Raisoni college of Engineering	24-Sep-2021	24-Sep-2021	1.25
11	Archana Joshi	Speaker	IPR awareness & strategy-BRBC city camp	08-Oct-2021	08-Oct-2021	1.25
12	Archana Joshi	Speaker	BRBC Camp(BRBC city camp in collaboration with ACIC RISE Association, Chandigarh Group of Colleges, Mohali)	17-Dec-2021	17-Dec-2021	1.25
13	Archana Joshi	Speaker	BIG Awareness Talk	03-Feb-2022	03-Feb-2022	0.5
14	Archana Joshi	Speaker	Startup 101 lecture series (Intro to IP & patents)	30-Jun-2022	30-Jun-2022	1
15	Archana Joshi	Speaker	IPR strategies Talk at IESA	15-Nov-2022	15-Nov-2022	1
16	Mugdha Lele	Speaker	Scientifica (Sancheti College of Physiotherapy)	12-Mar-2023	12-Mar-2023	4
17	Kavita Parekh	Panel Member	MSME Idea Hackathon 2.0	29-Nov-2022	02-Dec-2022	1
18	Premnath V	Speaker	Taking scientific ideas to market via startups	12-Apr-2023	12-Apr-2023	1
19	Archana Joshi	Speaker	IPR and Management	08-May-2023	08-May-2023	1
20	Mrunal Tare	Speaker	Patent search :databases & demonstration	15-Jun-2023	15-Jun-2023	1.5
21	Premnath V	Speaker	Basics to Create a Successful Bio-Enterprise Workshop	27-Oct-2023	27-Oct-2023	1
22	Archana Joshi	Speaker	Protecting your IP in Startup Launch Accelerator Program	30-Oct-2023	30-Oct-2023	1.5
23	Archana Joshi	Mentor	Intellectual Property in Startup Launch Accelerator Program	31-Oct-2023	31-Oct-2023	2
24	Richa Arya	Mentor	Patent Search in Startup Launch Accelerator Program	31-Oct-2023	31-Oct-2023	1
25	Pradnya A	Discussant	Diagnostic landscape for infectious diseases in India, IIT Bombay	31-Oct-2023	31-Oct-2023	8
				-	Total	39

Appendix 12: 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 (GvI) 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				

	List of Tech Briefs Finalised
TechBrief No.	Title
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
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
Total	61

Appendix 13: List of entries in the Knowhow Database

	List of Entries in Knowhow 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 fluoroscence or luminescence-based detection of adenine			
8	A novel compound for the fluoroscence-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 fistu			
14	A smart defecation cleansing assistive device for the immobile population.			
15	Adalimumab Biosimilar			
16	Advanced Detonation Spray Coating Technology			
17	Anti-virulence formulation from microalgal lipids against Vibrio Cholerae			
18	Antibacterial Coatings for Glass, Metals, Plastics and Fibres			
19	Bio-derived 'drop-in' replacement for di-isocyanates in polyurethane production			
20	Bio-manufacturing of low-calorie sweetener D-allulose using novel enzymes			
21	Biosimilar Anakinra production			
22	Broadband Antireflective (BAR) Coatings for PV Application			
23	C15 and C17 paraffins for personal care & fuel additive applications from microbial technology			
24	Certolizumab Pegol			
25	Cold Gas Dynamic Spray Coating			
26	Colorimetric paper strip detector for detection of 2,4,6-TNP/Picric acid from water, soil and explosives			
27	Continuous integrated platform for the manufacturing of Ranibizumab Biosimilar			
28	Continuous process for the manufacture of Azelaic acid - an API and Industrial Additive			
29	Cost effective cyclic process to produce free flowing industrial grade and refined edible NaCl (common salt)			
30	Cost-effective process for manufacturing γ-Valerolactone from Levulinic Acid			
31	Cost-efficient Solar Receiver Tube Technology for Low & Medium Temperature Solar Thermal Applications			

	List of Entries in Knowhow Database
Sr No.	Title
32	Curd strip that can set customized and consistent quality curd anytime anywhere!
33	Electrode Materials for Li-ion Batteries and Supercapacitor for Electric Vehicles (EV) Application
34	Elevar: A self operated manual backrest for bedridden patients
35	Encapsulation of probiotic spores as fortification strategy for functional foods
36	High yield production of bacterial nanocellulose (BNC) useful for making medical and personal care products.
37	High-yield process for natural astaxanthin production
38	Highly UV shielding, flexible, transparent and luminescent PMMA composite films
39	IDA M-Series I prosthetic hands: a lowcost high utility mechanical prosthetic hand
40	Insulin Detemir
41	Jaipur Belt - exoskeleton
42	Lightweight, easy-to-assemble face shield that offers full face coverage
43	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
44	Microbial cetearyl alcohol for cosmetic & pharmaceutical applications
45	Microbial process for the synthesis of camptothecin, an anti-cancer compound and starting material
46	Mini Implant Placement Guiding Device
47	Mitochondria Targeting Non-Isocyanate Polyurethane Nanocapsules for drug delivery and imaging
48	Multipurpose, low-cost, disposable plastic chip electrodes
49	Nonisocyanate polyurethane nanocapsules (NIPU) for drug delivery and imaging
50	Novel degradable polyoxalates from renewable monomers for coating and film applications
51	Novel process for the manufacturing of alpha-arbutin as a freckles-reducing cosmetic ingredient
52	Nutraceutically enriched beverage
53	One-pot process for the production of the prebiotic substance, 4-galactosyl-kojibiose
54	Paper strip detector for detection of 2,4,6-TNP/Picric acid from water, soil and explosives
55	PEM Fuel Cell Based Power Supply Systems
56	Personalized wheelchair with motorized add-on
57	Polysaccharide based nanoemulsion for curcumin delivery
58	Portable, user-friendly, low cost potentiostat - LapPot
59	Process for high yield biosynthesis of bacterial nanocellulose from indigenous bacteria

	List of Entries in Knowhow Database
Sr No.	Title
60	Process for recovery of common salt, potassium chloride and high purity magnesia from brine in an integrated manner
61	Process for the preparation of solar salt reduced levels of trace impurities, and having high purity and whiteness suitable for edible and industrial applications
62	Process for the recovery of high purity salts - sodium chloride and sodium sulphate from crudes (sulphate-rich brine)
63	Production of industrial grade high purity salt from sea water/subsoil and lake brines suitable for chlor-alkali manufacture
64	Pulsed Electro-deposition Technology
65	Pune Face Shield
66	Ranibizumab Biosimilar from CSIR- NCL
67	Rapid colorimetric method for real-time and on-site monitoring of water quality in low resource settings
68	Robotic Device for Physical Rehabilitation & Functional Training
69	Sahayatha: A smart defecation cleansing assistive device for the immobile population
70	Self-operated manual backrest for bedridden patients
71	Simple, cost effective powder metallurgy process with a nano additive for fabricating dispersion strengthened tungsten (W) plates
72	Smart Carbon-TiO2 Technology for Paint Applications
73	Thermal Imaging Scanner with Edge Computing
74	TransReCon: A novel vial adapter drug reconstitution device
75	Tumor deconstruction platform for the analysis of intra-tumor heterogeneity
76	UV Shielding Bio-derived furanic polymers

Appendix 14: 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 15: 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		as per request
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
	Total	300	114	23	10

Appendix 16: 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
		Total	20	40	487

Appendix 17: List of technologies featured in technology showcases

Sr No. Technology Name Technology Provider Affiliation Showcased in						
r No.	Technology Name CNSL-derived novel initiator for solution	Technology Provider	Affiliation	Showcased in Renewable Chemicals and Materials		
1	polymerization of styrene-butadiene/SBS rubbers	Prakash Wadgaonkar	CSIR NCL, Pune	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 NIIST, Thiruvananthapuram	Renewable Chemicals and Materials Matchmaker - Showcase 1		
6	Process for manufacturing γ-Valerolactone (GvI) 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 Shams 1azdam	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		
20.	Transizanias, Filannia and outers	Talla Blambaro	Dhanvantri	oupubliniou materimater		
21	Sahayatha	Shruthi Babu	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	Elevar	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		
20	riduaceducais as idificultial 10005	Annual Ady Choudidly	Chandigain	TTOURION WATCHINAKEI		

Sr No.	Technology Name	Technology Provider	Affiliation	Showcased in
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
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	Sustaiable 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

Appendix 18: List of leads generated for technology providers

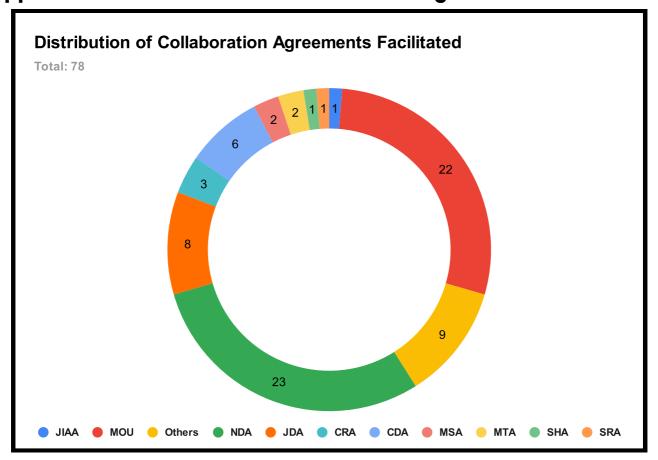
Sr No	Technology Seeker/ Party	Location	Technology Interested in
1	ZeroPlast Labs	Pune	Coatings
2	Arkema	France	Polyols
3	Arkema	France	Di-functional comonomers
4	Arkema	France	Initiators
5	Arkema	France	Di-isocyanates
6	Manali Petrochemicals	Chennai	Di-isocyanates
7	Elkay Chemicals	Pune	Bacterial nanocellulose
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
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

Sr No	Technology Seeker/ Party	Location	Technology Interested in
38		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
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 19: 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	Agreement
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 jaudice 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 20: Distribution of collaboration agreements facilitated



*Detailed information available on request

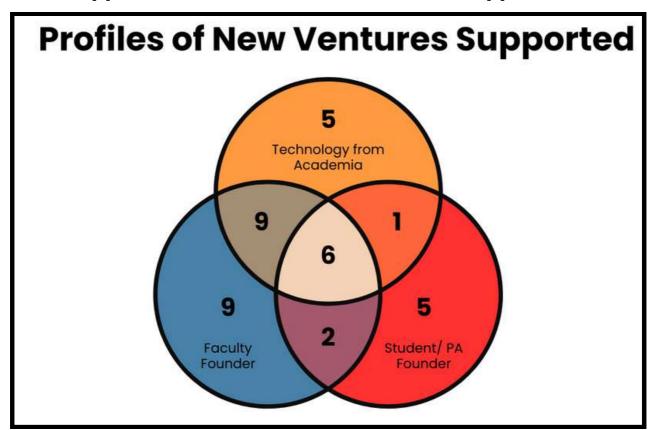
Key:

- 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

Appendix 21: List of deals facilitated

	List of Deals Facilitated			
Sr No.	Date initiated	Туре		
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		

Appendix 22: Profiles of new ventures supported



*Detailed information available on request

Appendix 23: 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 Kadhiravan	
3	Taviicare	Avijan Sinha		
4	RegenOrtho	Aken Sanghavi		
5	MedBlue Innovations	Jitesh Pandey		

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