



# Foundation for Innovation and Technology Transfer (FITT)

## Quarterly NEWSLETTER

January - March 2024



### R&D Projects & Partnerships

Collaborative R&D | Technology Development | Expert Consultancy  
Skill development Programs | Workshops & Conferences  
Industry | Government | Academia | Multilateral Organizations | CSR funding



### Intellectual Property & Technology Transfers

IP Analytics & Due Diligence | IP Filings & Management | IP Audits  
Technology Scouting | Match-making | Technology Transfers & Licensing  
IP Awareness | Techno-legal Support



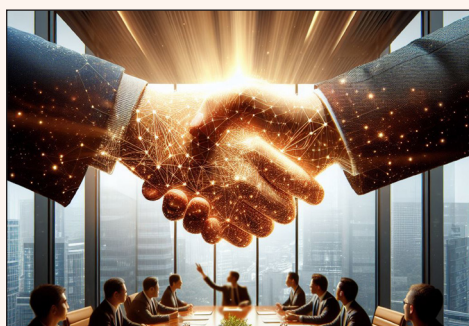
### Incubation & Entrepreneurship

Infrastructure | Lab/Office Space | Specialized Equipment | Access to IITD labs  
Technical Mentoring | Business Mentoring  
Business & Market Connects | Investor Connects | Networking | Funding Support



### Research & Innovation Park

Managed Facility for creating a knowledge and innovation ecosystem  
Spaces for corporates in manufacturing, R&D, D&D, Process Engineering  
Auditorium | Meeting/Conference Rooms | Training Rooms | Service Apartments



## R&D Projects & Partnerships

FITT actively engages with corporates, industry bodies, and academic institutions to expand its outreach and enhance technology commercialization efforts. These partnerships facilitate collaborative research, technology transfer, and entrepreneurial support, driving regional economic development. These

projects serve as catalysts for innovation and knowledge exchange between academia and industry.

From January to March 2024, FITT Facilitated 44 R&D, technology development and consultancy projects totalling INR 50Cr.

### Notable projects initiated during this period

Project Title	PI	Department
Nalanda Museum Upgradation: Museum Revival and Immersive Show of Nalanda University	Aakash Johry	Design
Design and development of Indigenous, low ambient light, modular, light weight EO & IIR Seeker and its fitment on an indigenous UAV.	Mukul Sarkar	Elect. Engg.
"Indian Open Source Software Platform for an end-to-end 5G Network (IOS-5GN)" to be jointly implemented by FSID-IISc, FITT-IITD and C-DAC Trivandrum	Krishna Sirohi	Bharti School
Skill Development Proposal for establishment of CoE under SANKALP for Blockchain	Brejesh Lall	Elect. Engg.
Skill Development Proposal for establishment of CoE under SANKALP for Computer Vision and AR/VR	Brejesh Lall	Elect. Engg.
Skill Development Proposal for establishment of CoE under SANKALP for IoT with 5G	Brejesh Lall	Elect. Engg.
Skill Development Proposal for establishment of CoE under SANKALP for AI	Brejesh Lall	Elect. Engg.
Satellite-derived Ambient Air Quality Monitoring at National scale (SAANS): Phase II	Sagnik Dey	C.A.S.
Design of Indigenous Neuromorphic/ In-memory Computing Hardware Primitive	Manan Suri	Elect. Engg.
Development and Prototyping of Smart Ware House IoT Sensors with Software	Jha, Sunil	Mech. Engg.
Development of Tapes of UHMWPP Compositions and Their Single Polymer Composites for High-Performance Applications	Anup K. Ghosh	DMSE
Use of membrane separations in the purification of next-generation biologics	Anurag S. Rathore	Chem. Engg.

## Major R&D Partners/Industries

- Reliance Industries Ltd., Mumbai
- Archaeological Survey Of India, Govt. of India
- Military College Of Electronics And Mechanical Engineering, Indian Army
- Madhya Pradesh State Skill Development And Employment Generation Board, Govt. of Madhya Pradesh
- TCS Research Kolkata
- United Nations (UN) World Food Programme (WFP) India
- Donaldson Company Inc., USA
- Central Pollution Control Board, Govt. of India
- Ministry Of Electronics & Information Technology, Govt. of India
- Sony Research India Private Limited
- Nokia Solutions And Networks India Private Limited

## Noteworthy R&D collaborations



FITT signed an MoU with National Industrial Corridor Development Corporation Limited (NICDC) in February 2024 for assessment of location optimality using PM Gati Shakti Portal

# Intellectual Property & Technology Transfer

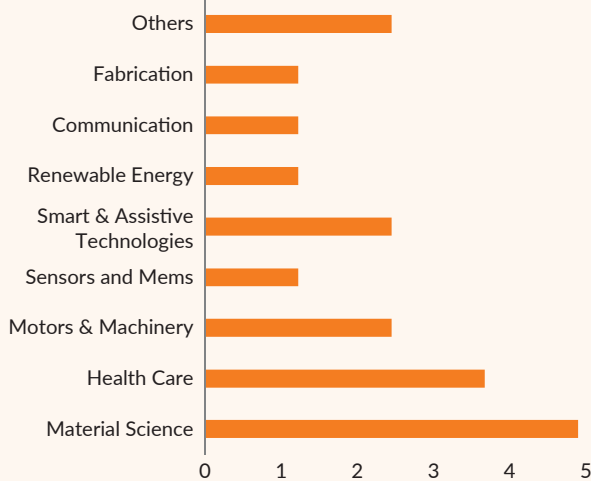
As the intellectual property asset management arm of IIT DELHI, FITT filed 17 IP applications from Jan 2024 to March 2024 applications, apart from conducting IP awareness sessions at

various departments and one-on-one sessions with the faculty members.

FITT facilitates the commercialization of valuable intellectual property

through technology transfer and licensing agreements. Notably, 3 technology licensing/IP assignment deals worth 4.67 Cr. were signed during this period.

Technology Area of IP Filed



The Robotic Exoskeleton device for upper limb rehabilitation (RoboExo SMARTTM) was designed and developed by drawing upon the wealth of knowledge from Prof. (Dr.) Amit Mehndiratta, and dedicated efforts by Dr. Neha Singh along with a committed team in the Centre of Biomedical Engineering (CBME) at IIT Delhi, to alleviate the paralyzing effects of strokes. RoboExo SMARTTM is transferred to Biorad Medisys Pvt. Ltd for commercialization



A technology transfer agreement was signed between FITT and Ariana Aggressive Pvt. Ltd on 5th February 2024 for the "Free Space Optics Technology" developed by Prof. Abhishek Dixit. This technology can unlock innovative applications in high-speed data transmission, secure networking, and beyond.



The successful transfer of wearable gait analysis technology developed by Prof. Deepak Joshi of the Center for Biomedical Engineering (CBME) to Ripple Healthcare Pvt. Ltd for commercialization is a significant achievement. This cutting-edge technology boasts an array of features designed to revolutionize gait analysis and improve patient outcomes, including Reduced Freezing and Falls: By providing real-time insights into gait patterns, this technology helps mitigate the risk of freezing and falls, thus promoting safer mobility for users.



# Incubation and Entrepreneurship

The Institute's incubation program aims at converting technology-based innovative ideas into commercially viable prod-

ucts. Over the years, the Incubator has nurtured startups at a high success rate. It has evolved into an ecosystem with its

scale-up at the Research and Innovation Park of IIT Delhi, which has facilities to house more than 125 startups.

## Introducing Our Latest Portfolio Additions

1. **M/s. Baud Resources:** Gravity Storage, a scalable alternative to Pumped Hydro Storage (PHS) to generate sustainable green electricity
2. **M/s. Komitsudo Enrgitek Pvt. Ltd.:** Komitsudo intends to design and manufacture an efficient energy storage system using the Vanadium Redox Flow Battery system.
3. **M/s. HYKI Tech Pvt. Ltd.:** The team is working on a Hydrokinetic Turbine.
4. **M/s. Gokalp H2CNT Pvt. Ltd.:** The company plans to develop a reactor for decomposing Methane into Hydrogen and Carbon Nano Tubes (CNT) under special parameters like temperature etc. and a catalyst.
5. **M/s. Vikash Geonensing Pvt. Ltd.:** The startup has developed a machine that can sense the precursor seismic waves arising from inside the earth due to the movement of the tectonic plates.
6. **Dr. Shruti Gurbaxani:** Upcycling Category 7 plastic waste into high-value products.

## Recent Highlights

**BIRAC BIG 2024 - FITT's partnership with BIRAC's Biotechnology Ignition Grant Scheme** aims to empower innovators through financial backing of up to INR 50 lakh, coupled with mentorship. FITT's extensive outreach initiatives, including offline and online knowledge sessions, further foster innovation and support for budding entrepreneurs across organizations, universities, and incubators.



**DIO-IDEX:** The informative session on DISC XI challenges and ADITI 1.0, featuring keynote speeches, discussions, and technical outreach by Indian Navy officers, facilitated innovation and collaboration opportunities for startups within the Indian Defence Ecosystem.



## Portfolio Updates

**Cluix:** CLUIX's victory in the Clean-Tech category of Social Innovation Lab 2.0, securing a grant of INR 12.5 lakh, was highlighted at the Abhivyakti Event and covered extensively by major media outlets.



**AHODS:** Uber awarded AHODS Technologies the grand prize of USD 120,000 (INR 1 crore) for its on-demand hydrogen retro-fitment kit, aimed at helping address India's sustainability goals.



**TSAW:** TSAW partnered with AIIMS Raebareli to enhance the lifesaving healthcare system.



**Botlab:** BotLab flew 5500 drones simultaneously in a single show. The drone show introduction was made by Isha Ambani, and the team made the world record for flying the most drones in a single show.





**Motorama EV Private Ltd:** Motorama has won the Facility for Low Carbon Technology Deployment (FLCTD) Innovation challenge which is a project financed by the Global Environment Facility (GEF).



**inGO Electric Pvt Ltd:** inGO Electric got selected into the Cohort 3 of the Incubation Program for Mobility Startups at NSRCEL - IIM Bangalore in collaboration with Maruti Suzuki India Limited.



**Orish J:** Startup India Seed Fund (SISFS) portfolio won the Kisan Ka Pyara Award at Agritech Pavilion of Startup Mahakumbh 2024.



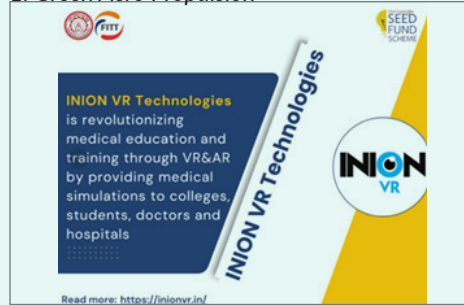
**Quintrans Hyperloop** has won the Pitch Fest'24 by Yourstory Media.



**Two startups were added to the portfolio after securing funding under the SISFS:**



1. Green Aero Propulsion



2. INION VR Technologies

**Green Aero Propulsion** won the Boeing BUILD 3.0 National Finals in February 2023. Boeing selected 7 startups from 1200 applicants across India.



**Zen Mobility:** As Zomato introduces its large order fleet in India, they will be delivering food for up to 50 people in each vehicle - these vehicles being Micro Pods TM from Zen Mobility.



**Alt Mobility:** Raises \$6 million to scale up operations.



**Climtech Innovation Program:** FITT organised tech founders meetups in Pune and Chandigarh for climate tech startups to discuss the importance and potential impact of sectors.



**Tech Founders Meetup in Pune & Chandigarh:** FITT announced the Climtech Innovation Program winners, Greenovate Solutions, and Cosoot Sustainability were declared winners of HDFC Parivartan grants.





## Capacity Building Initiatives

**ASCEND (Academic Institutions Capacity Building Program)** - FITT and Invest India collaborated to host a workshop for 40+ Northeast institutional heads, focusing on fostering innovation, entrepreneurship, and collaboration within the regional startup ecosystem through engaging sessions led by experts, covering diverse topics essential for entrepreneurial success.



**SAMSUNG Solve For Tomorrow 2024** - FITT-IITD and Samsung India have joined forces for the third edition of 'Solve for Tomorrow' 2024, a global STEM and Design Thinking competition spanning 63 countries.



**Green Tech Accelerator Program** - Green Tech Accelerator 2024 - an initiative to empower growth-stage startups under the SIDBI Cluster Intervention Program in association with ReNew and FITT, IIT Delhi. 25 selected GreenTech startups are being nurtured through physical and hybrid workshops and one-on-one mentorship by experts to scale their business.



**OIL Driftech** - OIL India Limited, in collaboration with FITT, IIT Delhi, launched 'DriftTECH', an innovation program for empowering entrepreneurs and visionaries to address real-world problems. Top 10 teams will get Incubation support with FITT, IIT Delhi to take their ideas to the MVP stage including funding support of up to INR 10 lakhs/startup.



**Sona Comstar IIT Delhi Innovation Program** - The Sona Comstar IIT Delhi Innovation program in mobility had its call-4 selection day, where we onboarded two startups in the Green Mobility sector: Aatral ESP, a startup building novel technology of Sodium Ion batteries and Dopar Energy, a startup building controllers with customisation as it's core strength.



**Tech Future Hackathon under MeitY Startup Hub:** An initiative designed to propel visionary entrepreneurs from the Research & Development phase to the creation of workable prototypes and Minimum Viable Products (MVPs) tailored for Industry 5.0 use cases.

A. Tech Future Hackathon 2.0 : (36 Hours Hackathon) 10th and 11th January 2024.



B. Tech Future Hackathon 3.0 : 3rd February 2024: brought solutions across domains like: E-mobility, Optimization, Green-Tech, Climate-Tech, Health-Tech.



**AIxEducation:** AI x Education Think Tank event, along with the Rashtrapati Bhavan Visit : March 10th, 2024: startups to discuss the intersection of artificial intelligence and education.



**NTRO Collab: Cython 2024** - an initiative by NCIIPC (A unit of NTRO), in collaboration with the FITT, IIT Delhi, is a premier platform aimed at fostering innovation and entrepreneurship in the deep-tech domain.



## Research & Innovation Park

IIT Delhi Research and Innovation Park is a managed facility with focus on innovation and product development where IIT Delhi, industry, entrepreneurs and government agencies interact and enable the creation of advanced technological solutions.

- To accelerate research translation
- Provide avenues for IIT Delhi students and faculty to interact more closely with industry and bring to market technological breakthroughs through incubation
- Amplify technological and societal impact of R&D at IIT Delhi
- Galvanize entrepreneurial aspirations

Event	Brief
Alliance of Digital India Foundation	Shri Nikhil Pahwa, a leading entrepreneur, journalist, activist and a public speaker, provided some insights on how DPDPA impacts startups, the compliances associated with the act for startups, how the DPDPA empowers people with regards to their personal data, and challenges regarding verifiable consent
Sanfe Launch Event	Sanfe entrepreneurs launched this revolutionary Glycoclear Technology with one of the largest body care ranges.
Delegation from Innopolis University	The delegation wanted to explore the facilities at R&I Park
Japanese Delegates: Matsushita Institute	The delegation wanted to explore the facilities at R&I Park
Miltenyi Biotech	Symposium on Cell and Gene Therapy – Miltenyi Biotech in collaboration with BIRAC
Danish Parliamentary Committee on Higher Education and Science	The focus of the visit was to learn about how the bilateral research and innovation cooperation supports the development of the Green Strategic Partnership between India and Denmark.
Clensta Launch Event	Clensta launched its newest campaign, #Buy1Give1, promising to distribute a bottle of clean drinking water for every Clensta product sold.
100 members from the Central Aisa youth delegation	The delegation wanted to explore the facilities at R&I Park

### List of Current Corporate Partners

National Center for Assistive Health Technology	Novo Nordisk Foundation India
CoE Process Safety & Risk Management - Nayara Energy	DS Centre for Entrepreneurship
INRM Consultants Pvt Ltd	LetsVenture Technologies Pvt Ltd
Foundation for Innovation and Social Entrepreneurship	BotLab Dynamics Pvt Ltd
DV2JS Innovation LLP	Aftershoot Pvt Ltd
Tata Consultancy Services	Mitsui Kinzoku Components India Pvt Ltd



### Foundation for Innovation and Technology Transfer

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