



Annual Report 2022-23



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Managing Director's Report

The Foundation for Innovation and Technology Transfer (FITT) is a pioneer in the field of technology transfer and commercialization from academia. FITT has completed 30 years of its journey and has established itself as a robust self-sustaining body. Following its mission to create partnerships and linkages with business and community to enable knowledge transfer for societal good and economic development, FITT has often resorted to innovative modes of engagement. The academic community at IIT Delhi has been pitching in with their best effort, to strengthen and support the team at FITT to go an extra mile in order to achieve and surpass the expectations of the society and the nation. Thanks to the continuous support from IIT Delhi, the team at FITT continues to contribute significantly more than just efficient delivery of services.

FITT is actively involved in industry partnerships, R&D programs, technology licensing, and innovation programs. This is mandated by the key agenda of the Foundation to transfer technology and inspire industrial orientation in teaching research and provide greater opportunity to the academic community with flexible and convenient formats for external engagements.

FITT's newsletters and bulletins cover the best innovation stories that IIT Delhi has to offer in terms of its expertise, knowledge base and infrastructure as well as other opportunities towards research collaborations. The Foundation works on the premise that cooperation between the Government, Academia and Industry is critical for the creation of effective policy tools and forming strategies for addressing major challenges faced by the country at large. A well-directed research and innovation program may lead to impactful solutions in the important areas of healthcare, manufacturing, infrastructure, cleanliness, water, energy, and financial inclusion.

FITT plays a critical role in exploiting the research capability at IIT Delhi by creating an effective channel for outreach while simultaneously providing superior program management services and steadily increasing its operational landscape which, while encouraging, is challenging itself to attain higher levels of effectiveness and success in its stated mission. FITT, since inception has helped the Institute in the filing of more than 1400 patents, and is actively working on

several licensing deals while more than 130 technologies have been commercialized till date. Also the technology commercialization deal value exceeds ₹ 2.5 Cr.

The Technology Business Incubation program at the campus has provided incubation residence to over 150 start-up companies out of which 34 startups were incubated in this FY. The capacity for incubation has increased with the NIDHI CoE being operationalized at the prestigious R&I Park which has resulted in enhanced facilities for the startup ecosystem.

It is important to note that several government support programs of DST, BIRAC, MeitY, MSDE and MSME are being facilitated by FITT, which also works with several corporates such as Pfizer, Sona Comstar, POSOCO, Barclays, and Samsung, towards supporting the innovation and incubation programs on the campus. To further encompass the innovation value chain, FITT has also been entrusted with the responsibility to operationalize the Research Park at IIT Delhi as this platform will help to deepen industry engagements, enhance R&D programs and significantly augment the start-up ecosystem.

FITT strives to initiate, build and sustain external partnerships and keeps strategizing for increased value creation and thus, maintain its special position at IIT Delhi.

Prof. Preeti Ranjan Panda
*Managing Director, FITT, and Dean
Corporate Relations, IIT Delhi*

Key Activities, Projects, and Initiatives

Outreach and Engagements

FITT has been working as the industry interface of the Institute for the past 30 Years facilitating collaboration, knowledge transfer, and the commercialization of research for mutual benefits of both parties. The constantly evolving relationship between industry and academia largely determines FITT's approach in shaping its outreach. Since inception, FITT has been providing an excellent program management services and steadily increasing its operational landscape. The varied roles of FITT may be seen in enabling innovations and technopreneurship, business partnerships, technology development, consultancy, collaborative R&D, technology commercialization, development program, corporate memberships etc. These roles are necessitated by the key agenda of FITT to showcase the Institute's 'Intellectual ware' to industry at large.



FITT is registered as a CSR implementing agency with National Foundation for Corporate Social Responsibility (IICA), under the ministry of Corporate Affairs Ministry of Corporate Affairs, GOI, as part of the CSR mandate under Section 135 of the Companies Act 2013. Here, corporates may associate with FITT to implement projects in relevant technology area and/or fund the technology incubation programs at IIT Delhi.

The evolving relationship between industry and academia has supported knowledge transfer and technology commercialization. The engagement with industry and other organizations is sustained by continued efforts towards various developmental collaborations and other partnership opportunities.

1. FITT facilitates active industry-academia dialogue and enables mutual visits to explore partnership prospects in pursuance of this goal.

Industry representatives are regularly invited for presentations, highlighting their priority R&D areas to faculty groups in the Institute and opportunities for collaborative work with IIT Delhi. Several contract R&D projects and consultancy assignments have been conducted at the institute under the aegis of FITT. During the year 2022-2023 there have been several visits to FITT by senior people from organizations like SAMSUNG, TCS, Grid India, Mitsui, Novo Nordisk etc. FITT also supports and manages Programs for the Corporate and Government. Some of the major ones are listed below:

2. Corporate Programs

- a. Grid-India Power System Award (GIPSA – 12th edition) 2024 (Formerly known as the POSOCO Power systems awards or PPSA) – Grid-India, a government of India enterprise, in association with FITT has been implementing the GIPSA

Awards since 2013. GIPSA is a part of the CSR initiatives of Grid India which aims to reward excellence in power system and its related fields. During the 11th edition of this Award 15 awardees were shortlisted in the Doctoral category and 15 candidates in the Master's category. The Doctoral awardees received a cash prize of ₹ 1,00,000/- each and the Master's awardees received a cash prize of ₹ 40,000/- each. This Award ceremony was concluded on 18th December 2022.

- b. Sona Comstar, in association with FITT, has launched the Sona-Comstar IIT Delhi Innovation Program (SCIDIP) for safe, clean and eco-friendly mobility. This is a CSR initiative of Sona Comstar to support the development of innovative solutions from startups in this area with fund support of up to ₹ 80 Lakhs as a grant-in-aid.
- c. **Samsung Solve for Tomorrow** : Samsung in collaboration with FITT as a knowledge partner launched the 'Solve for Tomorrow' program in 2022 which is a youth-centric national education and innovation competition, inviting India's brightest young minds to come up with innovative ideas that will transform lives of people and communities around them. The competition invited ideas in the areas of Education, Environment, Healthcare, and Agriculture, the priority UN Sustainable Development Goals for India. The top three winning teams were given a total grant of ₹ 1 crore and a 6-month incubation by FITT to

strengthen their prototypes, and seek real-world consumer validation for their products and services.

- d. **Boeing Build Program: Boeing India** partners with FITT to engage with innovators to offer the necessary knowledge and expertise, helping refine and shape their ideas and pitches into viable business offerings through Boeing University Innovation Leadership Development Program (BUILD).

Through BUILD, FITT & Boeing works with the entire spectrum of the student-to-start-up community to help young minds of today to develop breakthrough ideas in India, for India, and for the world. The top 7 National Winners receive the chance to win 10L in prize money as an aid towards their prototype development. In BUILD 2.0, FITT had two winners, SAP Aerospace & Modulo EV. The program offers opportunities to applicants to incubate ideas and access Boeing's innovation ecosystem applying from tier 1, tier 2, and tier 3 cities across India.

- e. **Meta (Facebook) Accelerator and Grand challenge for AR/VR startups in healthcare** The XR Startup Program aims to nurture the development of Extended Reality (XR) technologies in India. *The Accelerator*: It will nurture and foster 10 early-stage startups working with XR technologies during a 6-month program. *The Grand Challenge*: It aims to support early-stage innovators to scale up



Meta and MeitY Startup Hub launched the XR Startup Program on September, 2022 in the presence of Shri Rajeev Chandrasekhar, Minister of State for Skill Development and Entrepreneurship and Electronics and Information Technology of India & Mr. Joel Kaplan, Vice President, Global Public Policy at Meta. The program aims to nurture and accelerate XR Tech Startups across India, focusing on Tier II & III cities of India. FITT IIT Delhi (Foundation for Innovation and Technology Transfer) is one of the four implementation partners.

from the R&D phase to developing workable prototypes and Minimum Viable Products (MVPs) in the healthcare sector.

- f. **MEITY SAMRIDH accelerator program** for startups using emerging technologies to solve problems in the domains of AI/ML, Deep Learning, Agriculture, AR /VR, Computer Vision, Robotics, Transportation, Mobility, Clean-tech, Renewable Energy, Environment, Smart Infrastructure, and Sustainable Living. The participating startups will be eligible to avail up to ₹ 80 Lakhs of funding from MeitY Startup Hub and FITT.

3. Government Supported Programs/Initiatives

- a. NIDHI Centre of Excellence has been operational in R&I Park, IIT Delhi since 2021 to enable an environment for start-ups to enhance prospects of their success and help them go global. Over the past year, FITT has successfully incubated 34 startups, fostering innovation and entrepreneurial growth. These startups represent a diverse range of sectors, including Drones, EV, Healthcare, Sustainability and more. The support ranging up to ₹ 1 crore, is being provided to bridge the funding gap for these startups, enabling them to progress from prototyping to business growth. The state-of-the-art prototyping labs and facilities have played a crucial role in facilitating efficient product development, equipping these startups with the necessary resources to bring their ideas to fruition. The Centre has been equipped with Rapid Prototyping Lab, Mechanical Lab and Electrical/electronics Lab.
- b. **Bio NEST** : FITT is supporting Bioincubation through the Biotechnology Business Incubation facility, setup under the BioNEST program of BIRAC. The facility has been operational since the last quarter of 2014 and has incubated many biotech innovators, startups, and BIG funded companies. Some prominent startups from the Bio-Incubator that have launched products are Wrig Nanosystems, Flexmotiv, Cutting Edge Medical Devices, Clensta International, Redroom Technology, Machphy Solutions, Stellargene Technologies, Nanosafe Solutions, and Nanoclean Global. The facility is now being scaled-up at the R&I Park in IIT Delhi and has received a Grant-in-Aid of ₹ 7.5 crore. The aim of BioNEST is to provide incubation support to biotech startups,

enable access to specialized equipment and provide experimental facilities, IP guidance, market linkages etc. The facility is planned in a dedicated area of 20,000 sq. ft. (4th Floor) at R&I Park of IIT Delhi. The contract for creation of the laboratory facilities has been placed on Kewaunee which is a global leader in the design and manufacture of laboratory furniture and combines manufacturing and infrastructure expertise with industry 4.0 technologies

- c. To foster innovation & technology development in Defense and Aerospace, FITT is nominated as an iDEX partner incubator, to mentor entrepreneurs and MSMEs to create, deploy and commercialize technologies and products for the Indian military and defense. In addition the Army Design Bureau has signed an MoU with FITT for supporting Technology Commercialization of Products which have been developed by the Indian Army Innovators. Also, the Indian Army Cell at the Institute is actively working with the FITT incubated startups and Institute Faculty to find solutions for the Problem definitions shared by the Indian Army which would result in Research and Development projects.

4. **The biannual FITT newsletter** – FITT Forum serves as an information diffusion channel addressing inter alia, contemporary technical issues, new developments and available opportunities for collaboration and support for entrepreneurship. The information reaches a wide spectrum of several hundred industrial units, R&D organizations, government agencies, academic institutions and others.

5. **The Research and Innovation (R&I) Park** of IIT Delhi administered by FITT is a prominent center for research and innovation leading to advanced technology platforms and deep-tech start-ups. The park is expected to strengthen the techno-entrepreneurship ecosystem and contribute to the regional economic development. The current occupants of the R&I Park are Industry / Societies which contribute and support the Institute research eco system. Some of the current occupants of the park are TCS, Mitusi Chemicals, Novo Nordisk Foundation, Social Alpha, Aftershoot Inc, Lets Venture, Bot Lab.

Technology and Consultancy

Scientific and technological advancement is an important catalytic factor in industrial development and economic progress. An indicator of such programs is Collaborative R&D and Technology Development Projects. FITT is a DSIR approved Scientific and Industrial Research Organization (SIRO) by virtue of its charter to implement inter-alia industrial R&D projects. During FY 2022-2023, 142 Collaborative R&D and technology development projects worth ₹ 55.84 crore have been contracted.

In addition, the Institute encourages protection of intellectual assets to foster innovation and create opportunities for wealth creation. FITT facilitates and manages the institutes IPR activities. It receives information, carries out analysis and due diligence and processes the invention disclosures for formal registration as patents, designs etc. Bulk of actual filings though are outsourced to the professional attorney firms. It has facilitated over 1435 IP filings to date. During the FY 2022-2023, 126 IP applications were filed, and 13 licensing deals worth value of ₹ 325.3 Lakhs and two Technology development and Transfer deals of ₹ 215 Lakhs were signed. FITT also engages with various corporates, industry bodies and other academic institutions to augment its outreach and technology commercialization efforts. Few glimpses of the same are given below :



a. **Mechanalyzer:** An agreement was signed with SVR InfoTech, a Pune-based IT firm, for the exclusive authorized sale and technology support for indigenously developed software called “MechAnalyzer” in the Indian and international markets. The MoU was signed by MD, FITT, and Shri Vinod Atpadkar, CEO, SVR InfoTech, in the presence of Prof. S.K. Saha.

b. **Bio-surfactant technology:** Technology developed by Professor Bhuvnesh Gupta of IIT Delhi and his team, was transferred to Gujarat Fluorochemicals Ltd. This collaboration between industry and academia exemplifies the importance of bridging cutting-edge research with practical applications, fostering impactful technology transfer.



1. **Technology Compendium:** A “Compendium of Technologies at IIT Delhi” has been compiled and published by FITT with an aim to reach out to the industry partners and showcase the technical and innovative prowess of the scientific and research community at IIT Delhi. In the compendium, 80 technologies which fall in the bracket TRL 4 or above have been put together. The compendium also lists out some of the technologies which have been licensed out to industrial partners for commercialization in the last 5 years. Some of the important Technology Transfer deals done are as follows:



Innovation and Enterprise

The Deferred Placement Policy (DPP) offered by IIT Delhi is being implemented by FITT for students who opt out of placement in order to inculcate their start-up idea. A student must opt for deferred placement in the final semester of the pre-final year and is eligible to sit for placement after two years if their start-up is not successful. Selected innovative ideas are eligible for incubation at the TBIU. In the year 2022-23, six applicants have been shortlisted under DPP.

FITT is responsible for operating the Technology Business Incubation Unit (TBIU) at the Institute Campus.

1. TBIU primarily aims to promote partnerships with new technology entrepreneurs and start-up companies. As part of the TBIU program, subsidized modular space is provided to new entrepreneurs, first generation start-up companies or technology based organizations for setting up an office or work station or a prototype laboratory within the campus, with the purpose of:
 - a. Promoting interaction with, and technology/ expertise resourcing from the members of academic staff and research scholars of the Institute, and
 - b. Incubating novel technology and business ideas into viable commercial products or services.

Permitted activities in the TBIU include product development, product innovations, software testing simulation and prototyping, pilot experimentation, training and similar other technology related work, in which there exists homology with the Institute. The scope of activities in TBIU have been enhanced with the NIDHI CoE being operationalized at R&I park which has resulted in enhanced facilities for the Startup ecosystems.

2. **Scale up Incubation Engine (Accelerator Program):** To help entrepreneurs to achieve higher revenue growth and valuation, FITT launched a program which is designed to support the technology-based startup community. The program aims to primarily focus on enabling growth in revenue and valuation for the participating companies. It provides the startup, access to business support and resources through its connections with the industry and investor community. A total of 12 startups have been

supported under this program and funding in excess of US \$ 100 Mn has been facilitated to the startups.

3. AIC IIT Delhi Sonipat Innovation Foundation a Section 8 company created by FITT and IIT Delhi at the I-TEC, IIT Delhi Sonipat Campus under the Atal Innovation Mission (AIM) of the NITI AYOOG has been functioning from / since 2019. AIM is supporting the AIC for creating world-class incubation facility with over 10,000 sqft of space and state-of-the-art physical infrastructure, in terms of capital equipment and operating facilities for incubating start-ups. AIC IIT Delhi organized its flagship event "Sonipat Startup Summit", Haryana's largest innovation festival from 31st August to 2nd September 2022, where over 750 startups, innovators, students, government agencies and MSMEs participated in multiple events such as Pitch your idea, MSME Roundtable, Investor speed dating and Tech expo, Startup bootcamp, Panel discussion etc. Major events conducted by AIC were the Town Hall Startup 20 Sabha, Sonipat Startup Summit, etc. Presently, 13 startups are incubated at AIC Sonipat.
4. Towards leveraging the Institute's forward looking agenda, FITT has adopted several programs to enrich the entrepreneurial ecosystem and technology commercialization efforts at the Institute. Seed support in the broad area of IT is also forthcoming under the Department of Information Technology (DIT) program – "Technology Incubation and Development of Entrepreneurs" (TIDE) scheme in operation with FITT. Similarly, the MSME scheme "Entrepreneurial and Managerial Development of SMEs through Incubators" has been dovetailed with the incubation program at the Institute to promote emerging technological and knowledge based innovative ventures that seek the nurturing of ideas from professionals beyond the traditional activities of MSMEs.

For Startups which are selected for incubation, a high level Standing Screening Committee screens and evaluates the incubation proposals from innovators / start-ups for admission to the TBIU. This committee comprises both senior faculty scientists and industry experts to ensure due diligence of the technology business incubation proposals. FITT takes pride in offering to the budding techno-entrepreneurs an ambient ecosystem that nurtures new age businesses. Hand- holding, networking, managerial and material support etc are easily forthcoming for the truly innovative forays. The following start-ups (Promoters/Faculty) have been resident at FITT during FY 2022-23:

Aftershoot is revolutionizing photography workflows, offering photographers an efficient way to select, rate, find, and edit their best photos. By automating the tedious culling process, Aftershoot allows photographers to focus on engaging with clients, building portfolios, and stepping away from the computer.

Nanoclean Global is one of the leading Start-up companies in the development of preventive measures for polluted air and products for air filtration

Alt Mobility's mission is to offer cost-effective, dependable, and emission-free transportation solutions and full-stack services for businesses.

DesignX assists manufacturing partners to improvise their manufacturing operations by leveraging their product DFOS (Digital Factory Operating System). DFOS enables quick digitisation & digitalisation of the manufacturing processes. DFOS leverages its deep-tech capabilities such as BPM, IoT, AI/ML to handle manufacturing complex processes & on the top of its deep tech layer, it has a no code UI to define business process & BI. It is capable of handling variety of departments like - Production, Quality, Safety, Maintenance, Utility & Store. Along with the other features, it is also handy for attaining company sustainability goals via DFOS ESG tool.

TSAW is building Drone Network across India as alternate mode of transportation for Cargo Movements & Offering most advanced end-to-end logistics solutions

Machphy specializes in manufacturing cold chain products for the healthcare and supply chain industry, contributing to the integrity and efficiency of transporting temperature-sensitive goods.

IX Energy is a technology company building intelligent electric transport solutions for India and the world

Techorizon IT Services is incorporated by young women entrepreneurs to provide Advanced Data Analytics Consultancy and Software Development services to SMEs, MSMEs, Cooperative Banks, Credit Cooperative Societies, and Government Bodies at an affordable cost.

EVI Technologies is a unique business model that provides services such as charging and swapping Lithium-ion batteries at convenient locations at short distances for Electric Vehicles

Hex Sense Mobility is a smart mobility startup focusing on connected cars and modular smart car devices. Their modular IoT-based devices use AI and ML algorithms for constant vehicle diagnostics, creating a safer and more secure driving experience.

Prenishq aims to advance quantum technology by developing components such as External Cavity Diode Laser (ECDL), temperature and current controllers, laser locking modules, and Magneto Optical Trap (MoT). Their indigenous approach reduces costs and addresses the specific needs of Indian customers.

Carbon Fix Solutions is a decarbonization leader, providing services, technologies, and products to help clients minimize their carbon footprint. With a focus on sustainability and ESG goals, they actively advocate for policy changes and strive to contribute to a more sustainable future.

Surface Moto builds micro-electric vehicles for short-distance urban commutes, providing a hassle-free and eco-friendly alternative to traditional transportation. Their e-bikes are designed for comfort, safety, and a pleasurable riding experience.

Dash dynamic has developed a wireless charging technology for electric vehicles (EVs) which will charge the vehicle 30% faster than conventional plugged EV chargers. Using a mobile app an electric vehicle user will be able to wirelessly charge by simply parking above the charger on ground.

Ranu Nayak

The team is working on Smart 3D nebulised nanofibrous scaffold based low cost portable and reusable sorbents for rapid removal of oily contaminants and pathogen from waste water.

Mobisec is a deep technology driven startup in cybersecurity domain with focus on mobile device and app security. Mobisec is building up a solution that protects data using ML models for proactive threat detection and mitigation on mobile computer systems.

Naveli provides a one-stop solution for the differential requirements of different days of the menstruation cycle. Their highly customized sanitary wear design aims to enhance comfort and provide a perfect fit for varying flow levels.

Andromeida is the maker of Underwater Robots and is launching India's First autonomous robot with a service based concept of swimming pool cleaning and disinfection called Pool Buddy. Acknowledged under Best Robotics Startup in India for 2022 by MeitY.

Nirmalaya is on a mission to rid the country of religious waste and chemical-laden products. Through their innovative recycling process, they transform offerings from temples into incense, creating a space full of fragrance and purity.

P3C is India's premier perovskite solar cell company, working towards the commercialization of perovskite solar cells. Their focus on self-powered electric vehicles showcases the versatility and potential applications of perovskite solar cell technology.

Dweepi's Portable Railway Track Monitoring System monitors the health of railway tracks, measuring parameters under track floating conditions. It provides remote analysis for concerned railway officials, contributing to track safety and maintenance.

Capattery has designed the world's fastest charging battery, capable of charging within three minutes, offering a groundbreaking solution for fast-charging electric vehicles.

EnthuDes Design is a healthcare startup dedicated to revolutionizing the Indian healthcare system through the design and production of high-quality healthcare equipment and services. Their innovative solutions aim to enhance accessibility, affordability, and effectiveness in healthcare.

IWAYPLUS, originating from the Assistech Lab at IIT Delhi, offers a solution for generating geocoded indoor maps and positioning signatures for large indoor spaces. Their technology assists businesses in tracking and managing staff, assets, and crowds.

Papli Labs Pvt. Ltd.

Novae Avenue is an AI-based real-time road analytics system providing intelligence for safety and security in mobility. Their technology contributes to enhancing safety measures in the field of mobility.

Wireless 4 Scale Labs Pvt. Ltd.

5G Test Bed for "5G and Beyond" & "6G Research"

Dr. Veena Singh

The team has developed a smart phone based field-portable label-free multi-modal autofluorescence AF, fluorescence spectroscopic & imaging device, which is point of care digital pathology device for consistent and cost-effective screening of cancer patients.

Dr. Ayushi Mishra

The team is working towards development of an indigenous combined automatic microplate reader and liquid handler machine system

New Initiatives and Schemes Launched

- FITT Innovation Award:** FITT Innovation Award has been instituted in the year 2022 for the best contribution towards IP creation, development and transfer of technology or deep-tech venture creation for the faculty scientist of IIT Delhi. The Award is aimed at bolstering the interest in innovation and technology development activities. The award had ₹ 1,00,000/- as the prize money.

Prof. Ashwini Agrawal from the Department of Textile & Fibre Engineering and Prof. Harpal Singh from the Centre for Biomedical Engineering were awarded the FITT Innovation Award for contributions to IP creation, development, technology transfer, and deep tech venture creation with equal honors. Both the faculty members have demonstrated exemplary dedication and expertise in their respective fields.

- Renew Power Women Climate Champions:** FITT, as part of its Business Acceleration program has supported six women entrepreneurs working in the area of environment and clean energy. They were provided with a range of support services including tailor-made 1:1 mentoring sessions with senior sector experts; strategic peer learning and capacity building activities, business growth funds etc. As part of Impact Acceleration, the selected entrepreneurs also gained access to UNDP's wide body of expertise on developing a strong impact focus and aligning core business operations with the Sustainable Development Goals (SDGs).
- Altair Innovation Centre in NIDHI-CoE:** FITT in collaboration with Altair has established the Centre for start-ups at the R&I Park, IIT Delhi. An MOU was



signed between FITT and Altair on 20 July, 2022. Altair has provided licenses to FITT which may be used by start-ups for designing their products. The Altair software tools and solutions program may be used for Cloud Computing, Composites, Data Science, Digital Twin, e-Mobility, Internet of Things (IoT), Light weighting, Model-based Development, Multiphysics Simulation, Additive Manufacturing, Mechatronics, Smart Product Development, 5G, Topology and Parametric Optimization.

- FITT has been implementing BIRAC's SPARSH:** The Social Innovation Program for Products: Affordable and Relevant to Societal Health. This program is aimed at the promotion and development of innovative solutions to society's most pressing social problems. Under this program, shortlisted innovators are provided with a mini kick start grant of ₹ 5 lakhs and a monthly fellowship of ₹ 50,000/- along with technical support.

The administration and management of the incubation units is vested with FITT, yet an institute level empowered committee known as TBIU Boaroverseas the program. The Board comprise of:

TBIU Board

Prof.Rangan Banerjee, Director, IIT Delhi	Chairman
ProfTR Sreekrishnan, DD(O), IIT Delhi	Member
Prof. Ambuj Sagar, DD (S&P), IIT Delhi	Member
Prof. Naresh Bhatnagar, Dean (R&D), IITD	Member
Prof. Abhijit R Abhyankar, Dean (Infrastructure) IIT Delhi	Member
Mr. Manoj Kumar, Founder, Social Alpha	Member
Dr. Anita Gupta, Head, NSTEDB, DST GOI	Member
Mr. K. M. Deshmukh, CTO, Sona BLW Precision Forgings Ltd.	Member
Dr Anil Wali, MD FITT	Convenor

Misc Activities

1. Technology exhibition

The Diamond Jubilee Celebrations of the Institute, held on 3rd September 2022, was virtually inaugurated by the Hon'able President of India. To mark the occasion, FITT organized an exhibition which included various technologies ranging from diagnostic kits, clothing for Defense personnel, exoskeleton, nutrabeverages, compressed biogas-based two-wheeler, etc. The exhibition was visited by several dignitaries.



2. DST sponsored NIDHI Accelerator for women Women Entrepreneurs: Revolution

The three-month accelerator program was launched to mentor women entrepreneurs working on technology-oriented startup ideas. FITT provided comprehensive business mentoring to the participants and funding support to top-selected teams.

3. Glimpses of MoU Signed by FITT

MOUs with FITT



An MoU was signed between FITT and Adani Green Energy Limited on 2nd of August 2022 for collaborative technology development in the Renewable Energy sector.



FITT signed an MoU with EcoAutoMo Pvt Ltd on August 2, 2022 for the development of Autonomous Guided Vehicles.



MoU signed between Department of MSME, Government of Madhya Pradesh and FITT, in the presence of Shri Shivraj Singh Chauhan, Honorable CM of Madhya Pradesh on November 22, 2022

4. FITT – EXIM Bank MoU

To promote the creation of more deep tech startups in relevant sectors and accelerate their product development & refinement to make them ready for global markets and strengthen their export potential, FITT signed an MoU with EXIM Bank on **Thursday, March 30, 2023**. EXIM Bank extended technical and financial support of ₹ 1.50 crore under Ubharte Sitaare Programme to FITT for procuring important lab equipment for startups working in the environment and sustainability domains.



5. Renew Power Women Climate Champions

FITT, as part of Business Acceleration six women entrepreneurs working in the area of environment and clean energy, were provided with a range of support services including tailor-made 1:1 mentoring sessions with senior sector experts; strategic peer learning and capacity building activities and business growth funds. As part of Impact Acceleration, the selected entrepreneurs also gained access to UNDP's wide body of expertise on developing a strong impact focus and aligning core business operations with the Sustainable Development Goals (SDGs).

ReNew Power's Women Climate Champions Program with UNDP.



Delegation Visits to R&I Park

- German Delegation : iDEX Program



- **UAE Delegation:** H.E. Abdulla Bin Touq Al Marri, Minister of Economy, United Arab Emirates visited the R&I Park along with senior diplomats, and was impressed with the deep-tech innovations nurtured by FITT



- **US Delegation:** US Deputy Assistant Secretary of Defense for South and Southeast Asia Lindsey W Ford visited the R&I Park. The Def Tech startups supported by iDEX - DIO and FITT have created a thriving environment for aerospace, cybersecurity and defense startups in India. This visit highlights the strength of India's DeepTech sector.



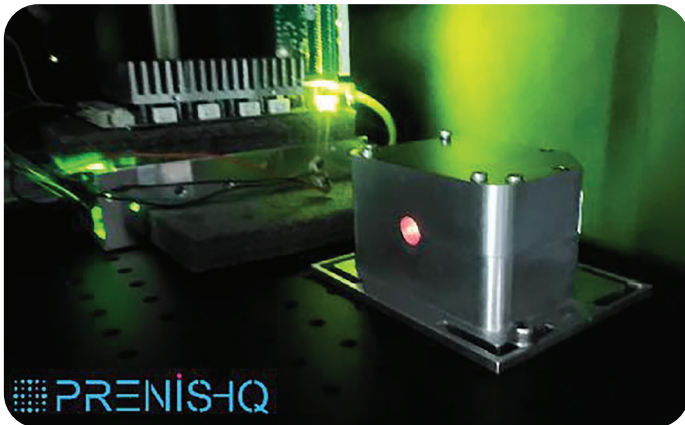
- **Netherlands:** The delegation hosted on 15th November 2022 was represented by the Economic Section from Embassy of Netherlands and included Dutch scale-ups working to develop cutting-edge solutions like mobile shutdown systems for heavy industry, climate-resilient infrastructures utilizing satellite data, and digital corporate solutions for smarter workdays etc.
- **Switzerland:** The delegation hosted on 15th November 2022 was led by Officers from SwissNext - Mr. Indraneel Ghose, Senior Advisor, Education, Research & Innovation, Ms. Aparna Kumaraswamy, Senior Program Manager, Lisa Susan Abraham, Communications Manager, Margaux Plater-Zyberk - Innovation Associate. Accompanied by 12 startups working in the space of cleantech, medtech, pharma, life sciences and so on.
- **France:** Honorable Minister of Digital Affairs & Telecommunication, Mr Jean-Noel Barrot; Mr. Eric Fajole, Trade Commissioner; Ms. Marie Khater, Deputy Head of the International Economics Office and other representatives from the French Embassy visited R&I park on 18th November 2022.
- **United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) :** The delegation hosted on 2nd December 2022 consisted of ministry officials and startups from Thailand, Philippines, Cambodia and Vietnam. and was led by Marta Perez Cuso - Economic Affairs Officer, UNESCAP. The delegation consisted of innovators, entrepreneurs, academicians and government officials from 22 countries including Sri Lanka, Malawi, Nigeria, South Sudan, Peru, Jamaica, Bhutan, Myanmar, Iraq, Jordan, Tajikistan etc.

FITT Incubated Startups Achievements and Product Details:

1. Cluix Private Limited has developed an In-line TDS/Mineral Analyser for RO Manufacturers.



In-line TDS Meter with Aux connector



2. **Preishq:** Compact narrow linewidth external cavity diode lasers (ECDL) are key to many application domains ranging from defense and space, particle size analysis for pharmaceutical and environmental monitoring, quantum computing, communication and sensing. All ECDL available in the market are bulky and foreign made. Hence procurement is time-consuming and costly. There is also problem in after sales service. The ECDL is compact and cost effective making is appealing for many industries and R&D labs.

3. **Dweepi Innovations:** Portable Track Geometry Measurement System (PTGMS) is a robotic trolley that runs on railway track to check the health of the tracks. It measures railway track geometry parameters (gauge, alignment, unevenness, cant, twist, versine) under track floating conditions (as specified in RDSO specification), records visual inspections for track defects, sends the inspection data to a central server for remote analysis by concerned railway officials.



4. **Six Sense Mobility** is launching the most advanced vehicle agnostic and globally compatible Telematics Control Unit that uses advanced vehicle telemetry and artificial intelligence to run live and even predictive diagnostics. Enabled with Satellite communication, it uses not just the GPS satellites, but GLONASS, Galileo, BeiDou and even India's own indigenous NAVIC satellites to provide military grade locational intelligence followed by emergency immobilisation allowing the user to immobilise the vehicle at the press of a button.

5. **Prenishq:** Low noise amplified photodetector
Low noise amplified photodetector using a trans-impedance amplifier. Salient Features:
(1) Low-noise and high-frequency rejection. The detector is ideal for acquiring optical and laser spectroscopy signals with high signal-to-noise ratio. It has applications in various technology domains including Physics, Chemistry, Biology, Agriculture, Air quality monitoring, Security etc.



 **PRENISHQ**

6. **Ramja Geosensor:** The company has developed a fast, simple, and cost-effective solution, PRATHMASENSE, which is a novel paper-based system that detects microbial infection and antimicrobial susceptibility/resistance in less than 2 hours.

**PRATHAMASENSE
GENOSENSOR**

Gene-specific Infection and Antimicrobial
resistance detection in just 90 minutes.

**RIGHT ANTIBIOTIC
AT RIGHT TIME**

7. **iWay Plus:** Indoor Navigation System has been launched by iWay Plus.



iWayPlus Private Ltd.

Professional Development Programmes

Consistent with its objectives towards knowledge transfer, a program called “Professional Candidate Registration” is under operation by FITT towards outreaching the academic options amongst the targeted professional segments in industry, research and academia. Through this program suitably qualified candidates may undertake a single professional course module of relevance at IIT Delhi and thus enhance their knowledge and skill set. A total of 33 candidates participated in this program during I & II Semester of 2022-2023.

Corporate Membership

The key endeavor of FITT is to have a formal and effective relationship with its industry partners on a mutually supportive basis. As a mechanism to formalize this relationship, FITT offers corporate membership to industry, industry associations and industrial

research institutions on the payment of nominal annual fees. Corporate members receive information about Institute program and other opportunities for collaboration regularly. In addition, they enjoy a variety of complimentary services and opportunities for partnership. Appendix-IV (Page 43) lists some of our corporate members.

FITT Awards

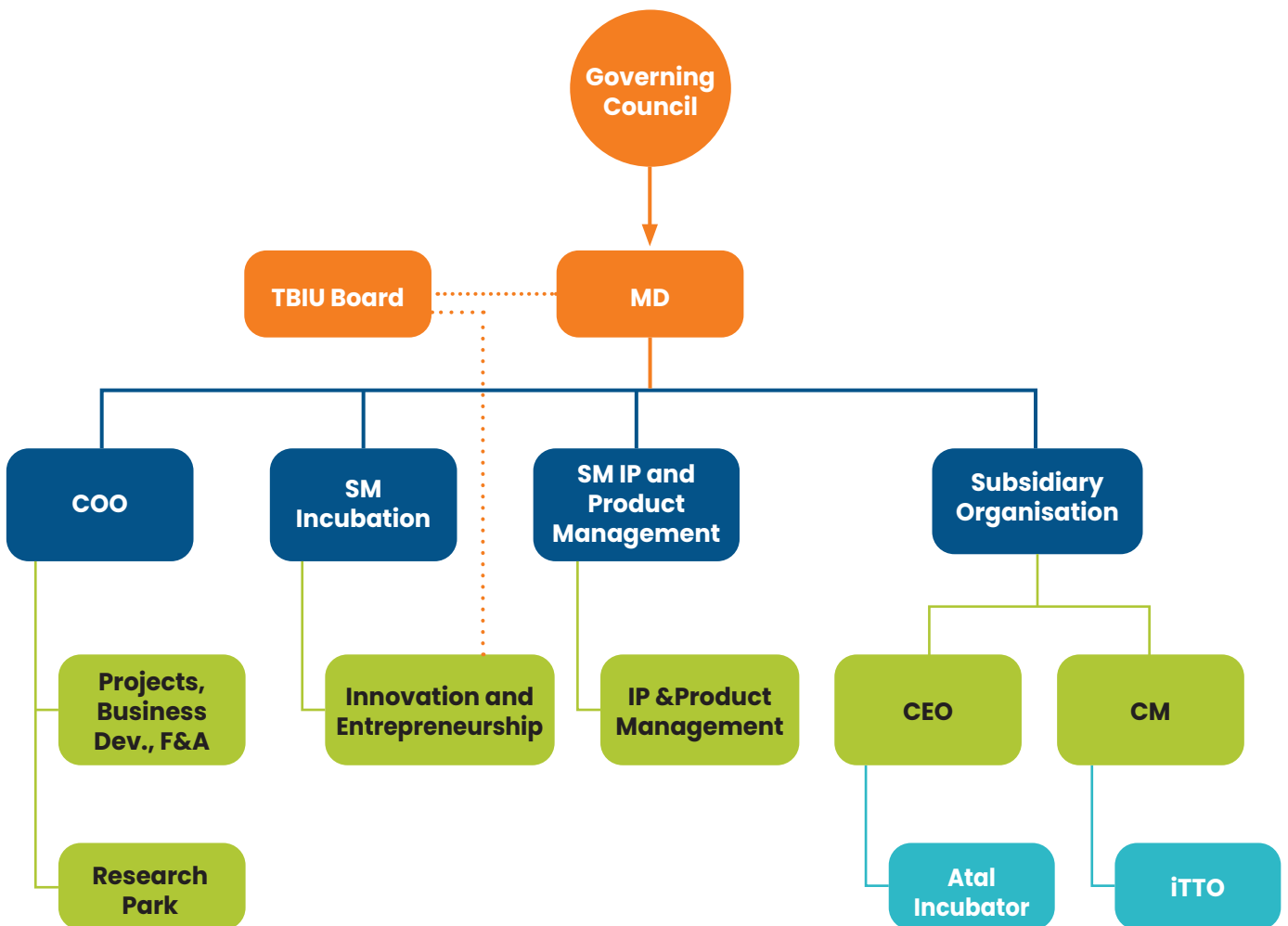
Foundation for Innovation and Technology Transfer (FITT) has instituted two awards, one each for Ph.D. and M.Tech. /M.S. project adjudged as the best Industry Relevant Projects. During the last financial year for Ph.D. Thesis Mr. Mukesh Bajya (2017TTZ8350) – Thesis title “Development of soft body armour by using different high-performance materials” was awarded while no M.S. (R) Project was selected.



Organization Structure

The management of FITT is vested with a full time Managing Director. The policy guidelines for operations are provided and overall control is exercised by FITT Governing council. The broad organization structure is given in the organizational chart.

FITT Organization Chart



Governing Council

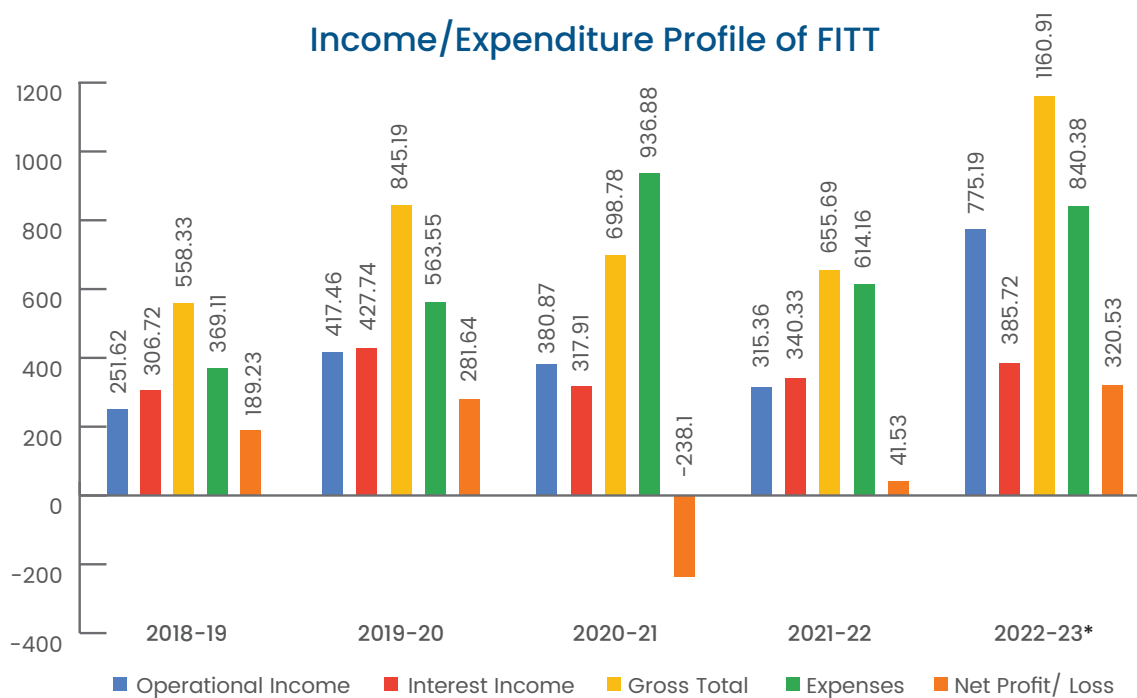
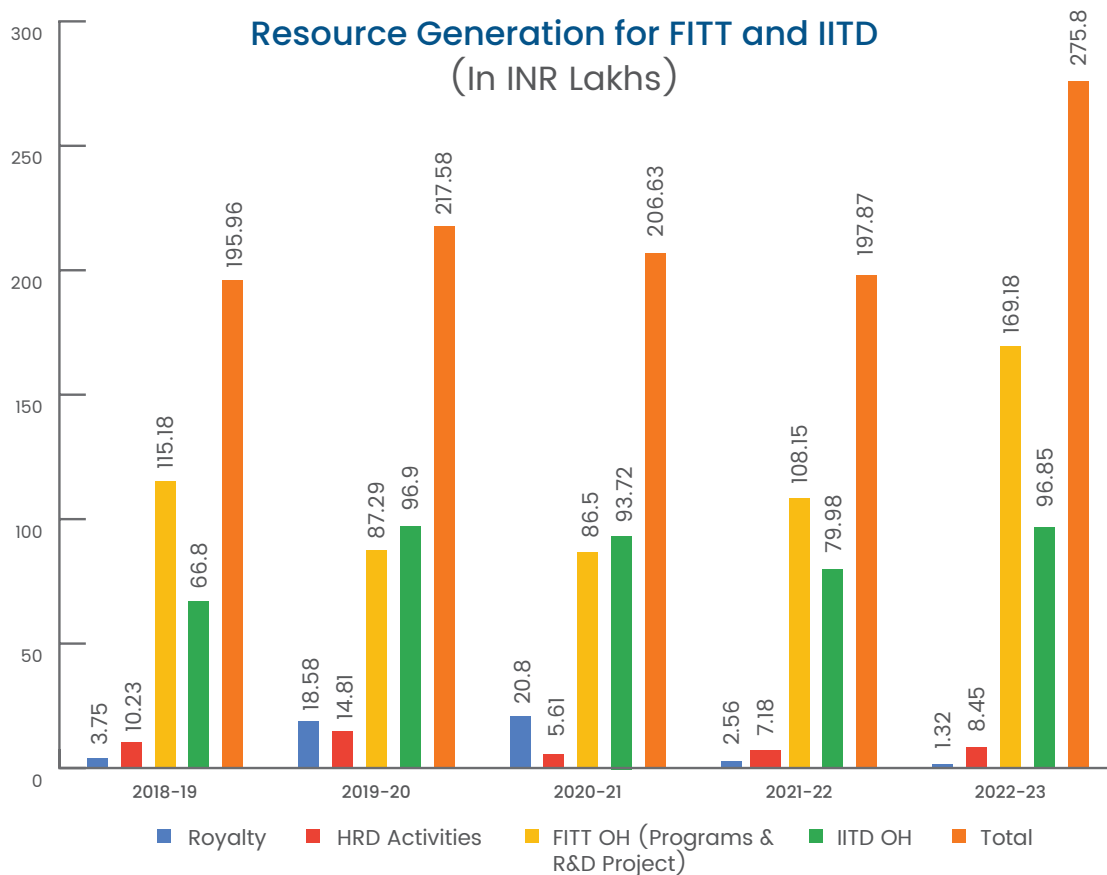
The Governing Council of FITT comprises representatives from Industry Associations/ Industries, nominees of IIT Delhi Senate and Board of Governors. In addition, there is one nominee of the Ministry of Human Resources Development. The corporate members of FITT elect one member each from three categories (A, B & C) respectively. The Director of IIT Delhi is the ex-officio Chairman of the FITT Governing Council, and the Dean, IRD, IIT Delhi is an ex-officio member. The Managing Director is the ex-officio Member-Secretary.

Governing Council of FITT (as on 31st March, 2023)

S. No.	Constitution	Incumbent
1	Director, IITD	Prof. Rangan Banerjee Chairman
2	Dean (R&D)	Prof. Naresh Bhatnagar Dean (R&D), IITD
3	Nominee of IITD Senate	Prof. P.R. Panda CSE, IIT Delhi
4	Nominee of IITD Senate	Prof. P.V.M. Rao Mech. Engg.
5	Nominee of IITD Senate	Prof. Sreedevi Upadhyayula Chemical Engineering, IIT Delhi
6*	Nominee of BOG	Prof. Anil Saroha IIT Delhi
7	Representative of MHRD	Mr. Prashant Agarwal Director (IITs)
8	Representing Category A Corporate members	Mr. Kiran Deshmukh Sona BLW Precision Forgings Ltd
9	Representing Category B Corporate Members	Mr. Dipinder Sekhon, CEO M/s. KritiKal Solutions Pvt. Ltd.
10	Representing Category C FITT Corporate members	Mr. Nalin Kolhi Araina Enterprises Pvt Ltd
11	Nominee of Industry Association	Mr. Ullas K. Kamath, Chair, FITT Karnataka State Council and JMD, Jyoti Labs Ltd.
12	Nominee of Industry Association	Mr. Sumant Sinha Sr. Vice President, ASSOCHAM
13	Representative of financial institution / funding agency	Dr. Siddharth Das Gen. Partner, Ventureast
14	Representative of financial institution / funding agency	Mr. Gaurav Sharma Partner, Investcorp India
15	MD, FITT	Dr Anil Wali (Tenure till Jun 2023) Prof. Preeti Ranjan Panda MD, FITT, Member-Secretary

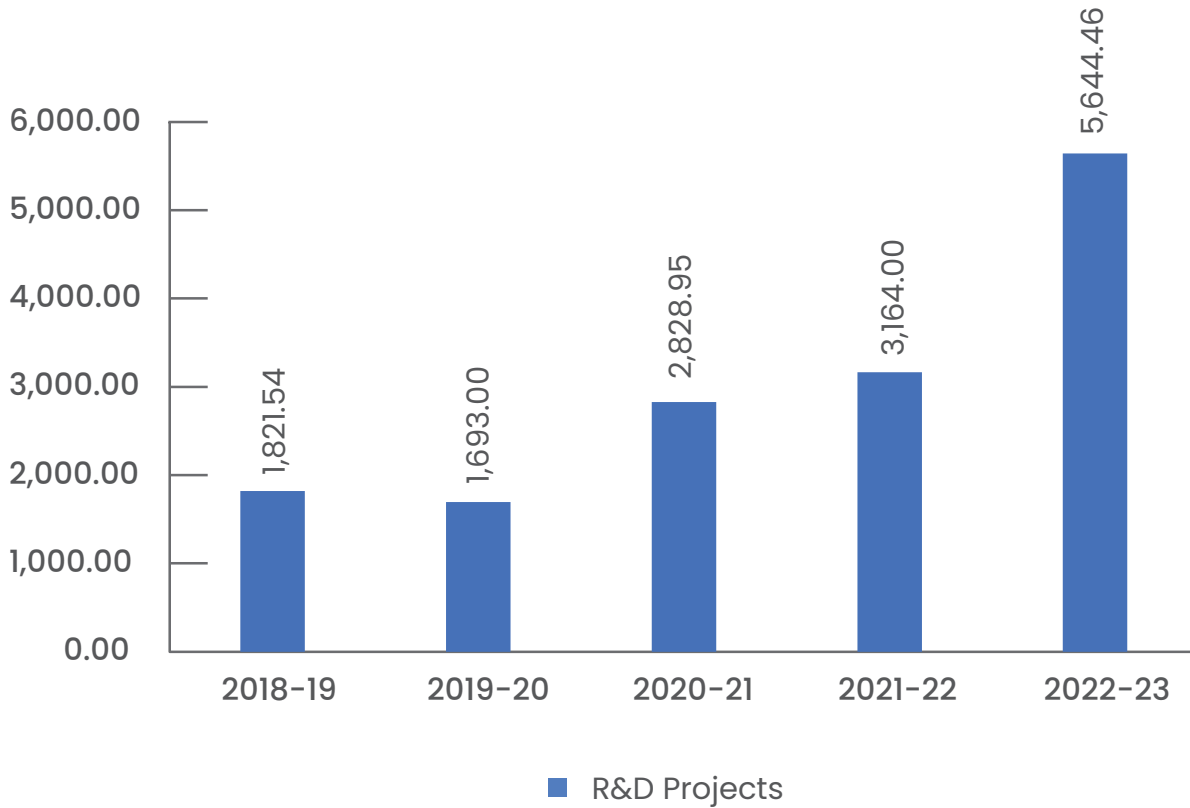
Financial Highlights



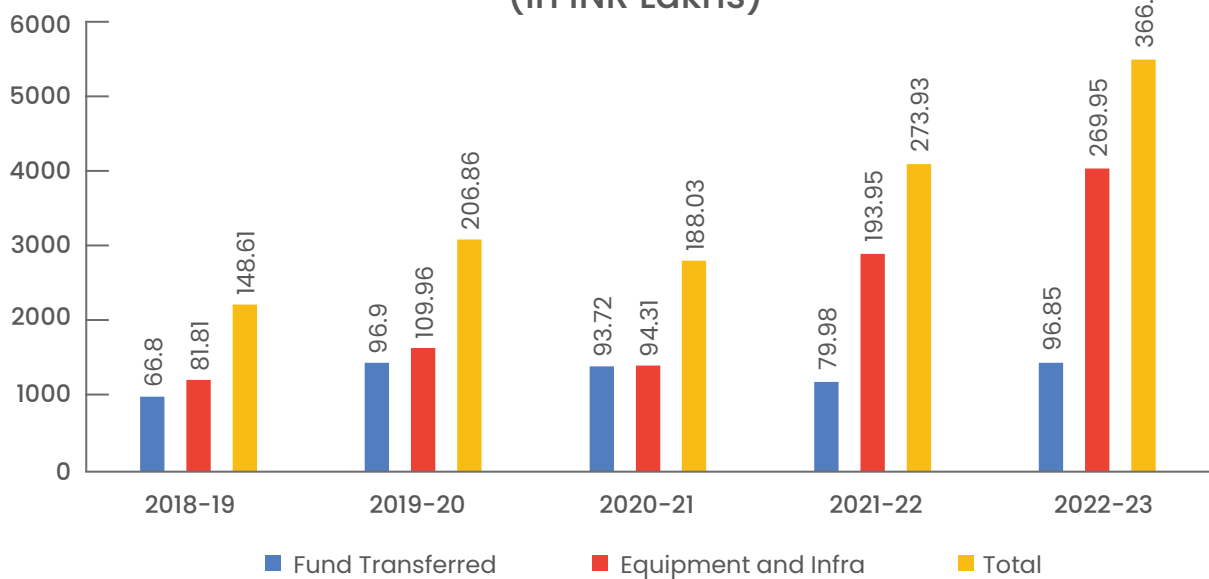


2022-23* – The figures are inclusive of R&I Park Income

Value of R&D Projects Undertaken by FITT



Assets Generated for IIT Delhi (In INR Lakhs)



Appendix – I

IPR Applications filed during FY 2022-23

IP FY 2022-2023				
S. No.	Title	Inventor	Department / Centre / School	Type of IP
1	An Automated Instrument and Microfluidic Chip for Improved and Rapid Testing of Nucleic Acid	Sandeep Kumar Jha	Centre for Biomedical Engineering	Patent
2	Synthesis and Cytotoxicity of Monofunctional Pt(II) Compound Bearing (Nose) - Heterodonor Scaffold	Jai Deo Singh	Department of Chemistry	Patent
3	Apparatus and Method for Detecting Micro-Organism-Based Diseases	Satish Kumar Dubey	Centre for Sensors, Instrumentation and Cyber Physical System Engineering (Formerly IDDC)	Patent
4	Hydro-Based Grid Forming Converter Having Power Sharing and Synchronization Capability Between Type-iii Based Wind Energy Conversion System and Utility Grid	Bhim Singh	Department of Electrical Engineering	Patent
5	Busbar Design for a Three Phase Voltage Source Inverter	Soumya Shubhra Nag	Department of Electrical Engineering	Patent
6	System and Method for Footstep-Based Cross Domain Person Identification	Subrat Kar	Department of Electrical Engineering	Patent
7	A Method for Preparation of a Bilayered Halochromic Freshness Marker Based Packaging Film	Bhabani Kumar Satapathy	Department of Material Science and Engineering	Patent
8	Water Splitting	Biswarup Chakraborty	Department of Chemistry	Patent
9	Polarization Synchronization Methods and Systems for Distributed Optical Beamforming (DOB)	Swades De	Department of Electrical Engineering	Patent
10	An Antimicrobial Hemostatic Material and a Fabrication Method Thereof	Bhuvanesh Gupta	Department of Textile and Fibre Engineering	Patent
11	Method for Developing a Formulation	Jayanta Bhattacharyya	Centre of Biomedical Engineering	Patent
12	Impedance Based Liquid Biopsy System & Method for Detecting and Screening Cancer	Shalini Guupta	Department of Chemical Engineering	Patent
13	A Method of Preparation of a Transition Metal Dichalcogenide (TMD) Film on a Growth Substrate	Madhusudan Singh	Department of Electrical Engineering	Patent
14	A System and Method for Enabling a Multi-Operator Edge Environment	Brejesh Lall	Department of Electrical Engineering	Patent

IP FY 2022-2023				
S. No.	Title	Inventor	Department / Centre / School	Type of IP
15	Multiple Scanner Heads for Non-Contact Chemical Detection, Layer Thickness and Surface Roughness Measurement	Amartya Sen Gupta	Department of Physics	Patent
16	A Method for Synthesis of Hybrid Zinc Stannate Copper-Trimesic Acid Based Metal Organic Framework	Syed Wazed Ali	Department of Textile and Fibre Engineering	Patent
17	A Method for Preparing a Polymer-Based Film And Composition Thereof	Sampa Saha	Department of Material Science and Engineering	Patent
18	Method and Apparatus for Ddos Attack Detection and Mitigation in Iot Network Slices	Vireshwar Kumar	Department of Computer Science and Engineering	Patent
19	A System for Measuring an Applied Force on a Surface	Sitikantha Roy	Department of Applied Mechanics	Patent
20	A Multifunctional Protective Bilayer Bimatrix Composite Coating	Deepak Kumar	Centre for Automotive Research and Tribology	Patent
21	Method and System to Protect Clear Text Transmission of User Identity in Wireless Networks	Brejesh Lall	Department of Electrical Engineering	Patent
22	High Performing Eco-Friendly Resins for Replacing Phenolic Resins in Nao (Non-Asbestos Organic)-Copper-Free Brake-Pads/Shoes/Clutch Facings	Jayashree Bijwe	Industrial Tribology, Machine Dynamics and Maintenance Engineering Centre (ITMMEC)	Patent
23	A System and Method Facilitating Distribution of Content in a Content Distribution Network (CDN)	Subrat Kar	Department of Electrical Engineering	Patent
24	Bimetallic and Monometallic Adsorbents for Removal of Trace Contaminants, and Process for Preparation Thereof	Divesh Bhatia	Department of Chemical Engineering	Patent
25	Device, System and Method Facilitating Light Intensity Control	Sumit Kumar Chattopadhyay	Department of Energy Science and Engineering	Patent
26	A Method to Control Nitrogen Doping In Microporous Carbon	Vipin Kumar	Department of Energy Science and Engineering	Patent
27	A Method and a System for Operating a Microgrid	Bhim Singh	Department of Electrical Engineering	Patent
28	A Transition-Metal Based Tetravalent Cationic Doped Ktao3 Perovskite and Preparation Thereof For A Highly Stable and Efficient Photocatalyst	Ashok Niwritti Bhaskarwar	Department of Chemical Engineering	Patent
29	A Bioreactor with a Porous Floating Support for Growing a Biological Material	Ashok Kumar Srivastava	Department of Biochemical Engineering and Biotechnology	Patent
30	System and Method for Green Synthesis of Lithium Based Oxide (LBO) for Battery Applications	Madhusudan Singh	Department of Electrical Engineering	Patent

IP FY 2022-2023

S. No.	Title	Inventor	Department / Centre / School	Type of IP
31	Multifunctional Textile and Method of Its Preparation Thereof	Wazed Syed Ali	Department of Textile and Fibre Engineering	Patent
32	Pseudoelliptic Evanescent-Mode Waveguide Filter	Ananjan Basu	Centre for Applied Research in Electronics	Patent
33	An Integrator Circuit for Current Monitoring Schemes and a Method for Optimizing Frequency Performance	Sumit Pramanick	Department of Electrical Engineering	Patent
34	Spray-Infiltrated Carbon-Perovskite Solar Cell Stack With N-I-P-Like Junction Formation	Viresh Dutta	Centre for Energy Studies	Patent
35	Phosphine Oxide Immobilized MO ₂ Nanostructures, and Preparation Method Therefor And Applications Thereof	Biswarup Chakraborty	Department of Chemistry	Patent
36	Compact External Cavity Diode Laser	Bodhaditya Santra	Department of Physics	Patent
37	Thermal Protective Performance Testing Instrument	Apurba Das	Department of Textile and Fibre Engineering	Patent
38	A Re-Usable Multi-Layered Absorbent Article	Rabisankar Chattopadhyay	Department of Textile and Fibre Engineering	Patent
39	Wafer-Wafer Bonding Using Recrystallized Parylene Material	Bhaskar Mitra	Department of Electrical Engineering	Patent
40	3d Printed Microbubble Generator Assembly	Anushree Malik	Centre for Rural Development and Technology	Design
41	A System For Fabricating Three-Dimensional (3D) Printed Components a Method Thereof	Pulak Mohan Pandey	Department of Mechanical Engineering	Patent
42	System and Method for Providing Energy Management in Communication Network	Swades De	Department of Electrical Engineering	Patent
43	Method for Controlling Stress and Under Sacrificial-Etching in Micro/Nano Sized Elctromechanical Devices	Pushpapraj Singh	Centre for Applied Research in Electronics	Patent
44	A System Facilitating Controlling and Locking of Laser and Method Thereof	Bodhaditya Santra	Department of Physics	Patent
45	An Eco-Friendly Silica Nanoparticles-Zddp Based Hybrid Nano-Lubricant Additive and Lubricant Formulation Thereof	Nitya Nand Gosvami	Department of Material Science and Engineering	Patent
46	An Adsorbent Material and a Method of Preparing Thereof	Dipayan Das	Department of Textile and Fibre Engineering	Patent
47	A Portable Footwear Traction Characterization Device	Arnab Chanda	Centre for Biomedical Engineering	Patent
48	Hyki Turbine	Paruchuri Mohan Venkata Subbarao	Department of Mechanical Engineering	Trademark
49	A Method for Continuous Evaluation of Three-Dimensional (3D) Motion Perception and a System Thereof	Tapan Kumar Gandhi	Department of Electrical Engineering	Patent

IP FY 2022-2023				
S. No.	Title	Inventor	Department / Centre / School	Type of IP
50	A Multifunctional Cationic Dye and a Method for Preparation Thereof	Javed Nabibaksha Sheikh	Department of Textile and Fibre Engineering	Patent
51	Ignition Pellets for TLUD Cookstoves	Sangeeta Kohli	Department of Mechanical Engineering	Patent
52	Method of Having Low Pull-in Voltage and Controlled Hysteretic Switching in Mems Structures	Pushpapraj Singh	Centre for Applied Research in Electronics	Patent
53	A System and Method for Generating High-Efficiency Electrical-Power Using Solar-PV Tower with Reflection Concentration	Dalip Singh Mehta	Department of Physics	Patent
54	A System for Optimizing Energy Transmission and a Method Thereof	Shouri Chatterjee	Department of Electrical Engineering	Patent
55	Biocidal Polyurethane Polymer and a Method for Production Thereof	Bhuvanesh Gupta	Department of Textile and Fibre Engineering	Patent
56	Baseline-Free Damage Detection Under Varying Temperatures Using Pwas Actuated And Sensed Lamb Waves without Temperature Compensation	Santosh Kapuria	Department of Applied Mechanics	Patent
57	Prosthetic Biotribometer	Sujeet Kumar Sinha	Department of Mechanical Engineering	Design
58	Side Stand for Two-Wheeler	Yunus Patel	Department of Applied Mechanics	Patent
59	Identification of a Novel DNA Aptamer Specific for Prostate Cancer Oncogene	Prashant Mishra	Department of Biochemical Engineering and Biotechnology	Patent
60	Apparatus for Determining the Performance Of Firefighter Clothing Under Wind-Driven Conditions	Prabal Talukdar	Department of Mechanical Engineering	Patent
61	Sound Absorbing Materials from Nades Pretreated Cellulosic Microfibrils	Shahab Fatima	Centre for Automotive Research and Tribology	Patent
62	Novel Rice Husk Fibre Reinforced Starch-Based Bio-Composite Packaging Antimicrobial Properties for the Extended Shelf Life of Packed Food	Dipayan Das	Department of Textile and Fibre Engineering	Patent
63	An Eco-Friendly High Capacity Bamboo Composite Structural Member Suitable for Seismic/Wind Resistant Modular Multystorey Construction and Process of Preparation	Suresh Bhalla	Department of Civil Engineering	Patent
64	A Method And System for Producing Master Mold for Microfluidic Devices	Supreet Singh Bahga	Department of Mechanical Engineering	Patent
65	Method for Generating Tuned Knee Torque Profile and a Prosthetic Limb Apparatus Thereof	Sudipto Mukherjee	Department of Mechanical Engineering	Patent

IP FY 2022-2023

S. No.	Title	Inventor	Department / Centre / School	Type of IP
66	Pollution Monitoring System and Method Thereof	Shouri Chatterjee	Department of Electrical Engineering	Patent
67	System and Method For Optimizing Data Transmission in a Communication Network	Swades De	Department of Electrical Engineering	Patent
68	Rivertech, Hydrotech	Parigi Vedanti Madhusudhan Rao	Department of Design	Design
69	Near Infrared Spectroscopy for Protein Formulation and Uses Thereof	Anurag S Rathore	Department of Chemical Engineering	Patent
70	Power Converter With Multi-Layered Coil	Sumit Pramanick	Department of Electrical Engineering	Patent
71	Total Elbow Replacement Prosthesis for Indian Population	Dinesh Kalyanasundaram	Centre for Biomedical Engineering	Patent
72	A Cost-Effective Equipment for Studying Synergistic Outcome of Contact Electrification and Photovoltaic Effect	Ankur Goswami	Department of Material Science and Engineering	Patent
73	A System and Method for Real Time Monitoring of Charge Varients of Monoclonal Antibodies Using Raman Spectroscopy	Anurag S Rathore	Department of Chemical Engineering	Patent
74	A System and Method for Optically Detecting, Tracking, Status and Monitoring Activities of Assets	Subrat Kar	Department of Electrical Engineering	Patent
75	Mechanically Strong Antimicrobial Polymeric Gels for Effective Point-of-Use Water Disinfection	Leena Nebhani	Department of Material Science and Engineering	Patent
76	Hydrokinetic Turbine	Paruchuri Mohan Venkata Subbarao	Department of Mechanical Engineering	Design
77	A Splint Device	Suresh Neelakantan	Department of Material Science and Engineering	Patent
78	Coumarin Compound and Method of Preparation Thereof	Ravi P Singh	Department of Chemistry	Patent
79	A Reconfigurable Three-Phase Single-Stage Current Fed Electrolytic Capacitor Less Bidirectional Converter for Onboard EV Charging	Sumit Pramanick	Department of Electrical Engineering	Patent
80	A Textile-Based Triboelectric Nano-Generator for Harvesting Energy	Bipin Kumar	Department of Textile and Fibre Engineering	Patent
81	A Lens Based Scanner Head for Agri-Photonics Application and Method of Working Thereof	Amartya Sengupta	Department of Physics	Patent
82	Detection and Measurement of Chlorine Dioxide with Data-Driven Modelling Method	Anurag S Rathore	Department of Chemical Engineering	Patent

IP FY 2022-2023				
S. No.	Title	Inventor	Department / Centre / School	Type of IP
83	A Novel Process for Preparation of Pegylated Recombinant Human Granulocyte Colony Stimulating Factor (PEG-GCSF)	Anurag S Rathore	Department of Chemical Engineering	Patent
84	Drain Extended NMOS (DENMOS) and a Method Thereof To Optimize Parasitic BJT Trigger Voltage and Self-Heating Induced Thermal Runaway	Ankur Gupta	Centre for Applied Research in Electronics	Patent
85	Redox Flow Battery and an Anolyte Material for the Redox Flow Battery	Bijay Prakash Tripathi	Department of Material Science and Engineering	Patent
86	Method of Designing Windows and Doors and System Thereof	N M Anoop Krishnan	Department of Civil Engineering	Patent
87	Reporting tool for Mammography for AI-Driven, Image-Based Structured Reporting	Chetan Arora	Department of Computer Science and Engineering	Copyright
88	A Sulfur Activated Graphite Electrode and Method of Preparation Thereof	Anupam Shukla	Department of Chemical Engineering	Patent
89	Nostril Analyzer	Deepak Joshi	Centre for Biomedical Engineering	Design
90	Design of an Efficient Magnetostrictive Material Based Vibration Energy Harvester with a Modified Flux Path	Sushma Santapuri	Department of Applied Mechanics	Patent
91	Roboanalyzer: 3d Model-Based Robotics Learning Software	Subir Kumar Saha	Department of Mechanical Engineering	Copyright
92	Composite Fibers Having Aligned Inorganic Nano Structures of High Aspect Ratio and Preparation Method	Ashwini Kumar Agrawal	Department of Textile and Fibre Engineering	Patent
93	Two Stage Three Phase High Resolution Transformerless Hybrid Multilevel Inverter for Grid Connected Solar PV Application	Sumit Kumar Chattopadhyay	Department of Energy Science And Engineering	Patent
94	A Holographic Filter Based Ultra-Low Frequency Raman System With Multi-Excitation Capabilities	Amartya Sengupta	Department of Physics	Patent
95	Temperature Regulated Shape Memory Polymers and a Method of Preparation Thereof	Bipin Kumar	Department of Textile and Fibre Engineering	Patent
96	A Lithography Free Flexible Tactile Sensor for Fruit Ripeness Detection	Bhaskar Mitra	Department of Electrical Engineering	Patent
97	Counter Battery System to Determine Geolocation of Originating Point of Unpowered Object and Method Thereof	Subrat Kar	Department of Electrical Engineering	Patent
98	Apparatus for Embossing and a Method Thereof	Sivanandam Aravindan	Department of Mechanical Engineering	Patent

IP FY 2022-2023

S. No.	Title	Inventor	Department / Centre / School	Type of IP
99	An Additive to Improve the Tribo-Performance of Engine Oils, Gear Oils, and Greases	Jayashree Bijwe	Industrial Tribology, Machine Dynamics and Maintenance Engineering Centre (ITMMEC)	Patent
100	A Novel Process for Preparation of Pegylated Recombinant Human Granulocyte Colony Stimulating Factor (Peg-Gcsf)	Anurag S Rathore	Department of Chemical Engineering	Patent
101	Green Chemistry Method for One-POT Synthesis Of Biologically Active 1,1-DI-, TRI-, and Tetra-Substituted Alkanes	Chinmoy Kumar Hazra	Department of Chemistry	Patent
102	Regenerable Anodized Porous Alumina Device and a Method of Fabrication Thereof	Bhaskar Mitra	Department of Electrical Engineering	Patent
103	A System and Method for Prosthetic Control	Shahid Malik	Centre for Sensors, Instrumentation and Cyber Physical System Engineering (SENSE)	Patent
104	Autoclave for Sterilization of Medical Equipment	Srinivasan Venkataraman	Department of Design	Design
105	Autoclave for Sterilization of Medical Equipment	Srinivasan Venkataraman	Department of Design	Design
106	Tactile Diagram Analyser	Parigi Vedanti Madhusudhan Rao	Department of Design	Patent
107	Enhanced Hydrogen Yield From Hydrogen Iodide Decomposition with Iodine Impregnated Activated Carbon as an Adsorbent and a Catalyst System in Intermixed Assembly	Ashok Niwritti Bhaskarwar	Department of Chemical Engineering	Patent
108	A Method for Training Upper Limb of Subjects/Patients for Activities of Daily Living	Amit Mehndiratta	Centre for Biomedical Engineering	Copyright
109	A System and Method for Preparing Ultra-Thin Spread Tow Fibers for Composite Manufacturing	Ramasamy Alagirusamy	Department of Textile and Fibre Engineering	Patent
110	New Bidirectional Isolated DC-DC Converter for Exchanging Power with The DC Grid	Anandarup Das	Department of Electrical Engineering	Patent
111	System Facilitating Power Supply in Communication Network and Method Thereof	Tara Chandra Kandpal	Department of Energy Science and Engineering	Patent
112	An Organic-Additive Enables Higly-Stable and Reversible Sodium Metal-Anode for High Energy Rechargeable Batteries	Vipin Kumar	Department of Energy Science and Engineering	Patent
113	An Ocular Drug Delivery Device	Dinesh Kalyanasundaram	Centre for Biomedical Engineering	Patent
114	Miniscrew Implant Supported Bi-Hilix Appliance(Misba)	Gaurav Singh	Department of Applied Mechanics	Patent

IP FY 2022-2023				
S. No.	Title	Inventor	Department / Centre / School	Type of IP
115	Transferring a Film from a First Substrate to a Second Substrate to Enhance Device Performance	Rajendra Singh	Department of Physics	Patent
116	Development of High-Performance Eco-Friendly Greases Using Natural Resources	Deepak Kumar	Centre for Automotive Research and Tribology	Patent
117	Total Elbow Replacement Prosthesis Set	Dinesh Kalyanasundaram	Centre for Biomedical Engineering	Design
118	Total Elbow Replacement Prosthesis Set	Dinesh Kalyanasundaram	Centre for Biomedical Engineering	Design
119	Total Elbow Replacement Prosthesis Set	Dinesh Kalyanasundaram	Centre for Biomedical Engineering	Design
120	Lavatory System for Processing Organic Waste Matter	Vijayraghavan M Chariar	Centre for Rural Development and Technology	Patent
121	Peptide-Based Mixture Composition for Piezoelectric Energy Harvesting and a Method of Fabricating the Device	Aloka Sinha	Department of Physics	Patent
122	An Asymmetrical 31-Level Inverter System	Sukumar Mishra	Department of Electrical Engineering	Patent
123	Multi-Anode Assembly Microbial Fuel Cell	Syed Wazed Ali	Department of Textile and Fibre Engineering	Patent
124	Synthesis of New Organic-Inorganic Hybrid Materials as Light-Emitting Lumophores, and Designing Oled Devices Using The Same	Chinmoy Kumar Hazra	Department of Chemistry	Patent
125	A System for Regulating The Power Generated by a Three-Phase Squirrel-Cage Induction Generator (SCIG)	Bhim Singh	Department of Electrical Engineering	Patent
126	Method for Manufacturing an Electrode from Biochar Obtained from Pyrolysis of Rice Straw	Anil K. Saroha	Department of Chemical Engineering	Patent

Appendix – II

Technology Licenses Executed during FY 2022-23

S. No.	Faculty Name	Department	Title of Technology
1	Prof. Harpal Singh	Centre for Biomedical Engineering	Detection of iron fortified cereals
2	Prof. Harpal Singh	Centre for Biomedical Engineering	Antimicrobial and anti covid coating
3	Prof. Jayshree Bijwe	Centre for Automotive Research & Tribology	Process development to remove sizing agents on Aramid Fabric and Laminate
4	Prof. Sangeeta Kohli	Department of Mechanical Engg.	Ignition pellets for TLUD Cookstove
5	Prof. S. N Naik	CRDT	Liquid Fuel from Plastic Waste
6	Prof. Apurba Das	Department of Textile and Fibre Engineering	Multidirectional thermal protective performance testing instrument
7	Prof. M. Balakrishnan	Department of Computer Science Engineering	A Device for Providing Assistance to Visually Impaired for Boarding of Public Buses
8	Prof. M. Balakrishnan	Department of Computer Science Engineering	Indoor Mapping and Navigation Technology
9	Prof. Swades De	Department of Electrical Engineering	Smart Sensing Technology
10	Prof. Swades De	Department of Electrical Engineering	Smart Real-time/Non-Real- Time Data Handling Technology
11	Prof. Bhuvnesh Gupta	Department of Textile and Fibre Engineering	Process for The Preparation of Bio Based Surfactant
12	Prof. S. K Saha	Department of Mechanical Engg.	MechAnalyzer
13	Prof. Ashu Verma	Department of Energy Science and Engineering	Smart Energy Metring Solution for a Building management

Appendix – III

Investigative/ Development Projects undertaken at FITT During FY 2022–23

S. No.	Project Title	PI Name	Department / Centre / School	Client
1	Development of A Deep Learning Platform For Structure-Based Antibody Screening	Gaurav Goel	Department of Chemical Engineering	KnowDis Data Science LLP
2	Knowledge Graph Embeddings and Recommender Systems	Mausam	School of AI	KnowDis Data Science LLP
3	Feasibility Study of The Development of Protocol Stack For Smart Meter Applications of Probus Smart Things Pvt. Ltd., New Delhi	Abhishek Dixit	Department of Electrical Engineering	Probus Smart Things Pvt. Ltd.
4	Assessment and Certification of Yogyata Courses	Jyoti Kumar	Department of Design	Harikripa IT Services Pvt. Ltd.
5	Utilization of Passenger Data To Generate Actionable Commercial Insights	Varun Ramamohan	Department of Mechanical Engineering	Delhi International Airport Ltd.
6	Detect Water Seepages Along The Joint Runways	B. R. Chahar	Department of Civil Engineering	Delhi International Airport Ltd.
7	Airborne Delay Prediction and Event Playback Methodology	Varun Ramamohan	Department of Mechanical Engineering	Delhi International Airport Ltd.
8	Development of FNSA Dashboard For Rajasthan	Nomesh B. Bolia	Department of Mechanical Engineering	United Nations (UN) World Food Programme (WFP) India
9	Modelling and Analysis For Agility In Restructuring The Flexibility of Resources In Ground Operation Process	Jitender Madaan	Department of Management Studies	Delhi International Airport New Delhi
10	Lamination of Mica System With Protective Polymer For Pv Panels	Naresh V. Datla	Department of Mechanical Engineering	Prashant Shekhar Bajpai
11	Planning, Designing and Supervision of The Foundation Structure For The Statue of Netaji Subhas Chandra Bose Under The Canopy Behind India Gate	Supratic Gupta	Department of Civil Engineering	NBCC (India) Ltd.
12	Traffic Performance Evaluation and Optimisation of Highways In Delhi Using Simulation Analysis For Delhi PWD Roads	Chakka M N Sai Chand	Transportation Research and Injury Prevention	Medulla Soft Technologies Pvt. Ltd.

S. No.	Project Title	PI Name	Department / Centre / School	Client
13	Development of A Machinery Health Monitoring System of Main Circulating Pump (MCP)	A. K. Darpe	Department of Mechanical Engineering	QED Analytical LLP
14	Water Balance If The Industry and Performance Assessment of ETP of Ashoka Pulp & Paper Mills Ltd. Ghaziabad	Vivek Kumar	Centre for Rural Development Technology	Ashoka Pulp & Paper Pvt. Ltd.
15	Enhancing The Price - Pre-Owned Vehicle Price Prediction Engine	Mausam	School of AI	Shriram Automall India Ltd.
16	Consultancy Service For Evaluating The Feasibility of Using The New ASTM E3325-21 Sample Preparat Standard and EPA Test Method 1311	Arun Kumar	Department of Civil Engineering	First Solar
17	Implementation of Field Orientation Control Algorithm In Existiong 1.3kw Motor Control Unit (MCU)	Amit Kumar	Department of Electrical Engineering	Sterling Gtake E-Mobility
18	Enhancing Citizen Awareness and Behaviour Change By Disseminating Scientific Data	P. Vigneswara Havarasan	Department of Management Studies	Bombinate Technologies Pvt. Ltd.
19	Development of Biodergradable Films With Multifunctional Properties	Anup K. Ghosh	Department of Material Sciences and Engineering	RM Biotech Pvt. Ltd.
20	(A): Failsafe Test For Subsidiary Led Signal, Calling - On, Route & Shunt With MTBF In Part Count Method As Per RDSO Specification No. RDSO/SPN/153/2011 Rev. 4.1. Development of Biodegradable Films With Multifunctional Properties. (B): To Advice On Hoe An Electronic Manufacturing Unit Should BELI Constructed To Take Care of Environmental Factors For Producing Quality Products.	Pushparaj Singh	Centre for Applied Research and Engineering	Instapower Ltd.
21	Autonomous Rover For 360 Degree Image Capturing	Husain Kanchwala	Centre for Automotive Research and Tribology	OLX India Ltd.
22	Development of Simulation Model and Optimization of Coil Design For Resonant Bidirectional Wireless Power Transfer System	Sumit Praminick	Department of Electrical Engineering	Delta Electronics India Pvt. Ltd.
23	Algorithmic Aspects of Driver Unbundling for Dominos Work Proposal	Sayan Ranu	Department of Computer Science and Engineering	Jubilant Foods Limited

S. No.	Project Title	PI Name	Department / Centre / School	Client
24	Consulting Services To Audit The Implementation By The States Of The Directions Issued By The Supreme Court Committee On Road Safety (Group B, C& D)	Geetam Tiwari	Transportation Research and Injury Prevention Centre	DIMTS
25	Computer Graphics and Animation For Research Program/Projects	Rahul Narain	Department of Computer Science and Engineering	TCS Labs
26	Advice On Knowledge Graph Based Question Answering	Mausam	SCHOOL of AI	TCS Labs
27	Investigation Into Efficiency of AUFERO Positive Ionization Based Filterless Mobile Technology From ENS Netherlands	Dibakar Rakshit	Department of Energy Science and Engineering	Siddhivinayak Tradelinks
28	Generic Controller Building BLOVJ Implementation Using TI DSP 28379	Santanu Mishra	Centre for Automotive Research and Tribology	GE India Industrial Pvt. Ltd.
29	Implementation of Integrated Security and Traffic Management System (ISTMS)	Sukumar Mishra	Department of Electrical Engineering	New Okhla Industrial Development Authority
30	C/O Footover Bridge/Skywalk For Connecting Implementation of Integrated Security and Traffic Management System (ISTMS)	Sukumar Mishra	Department of Electrical Engineering	New Okhla Industrial Development Authority
31	Predicting Driver's Performance In A Racing Simulator	Hariprasad Kodamana	Department of Chemical Engineering	Racing Unleashed AG
32	Specification of Monumental Flag Fabric	Bipin Kumar	Department of Textile Technology	Bhavishya Educational & Charitable Society
33	Platform For Reliable Characterization and Evaluation of Comparability of Biosimilar Drug Products In Lyophilized and Liquid Formulations	Anurag Singh Rathore	Department of Chemical Engineering	NIPTE
34	Creating As Continuous Process Platform For Production of Biotherapeutic Products	Anurag Singh Rathore	Department of Chemical Engineering	Pall Corporation
35	Multiphase Simulation of Plte Tyoe Heat Exchanger With Tabulators and Dimples	Bahni Ray	Department of Mechanical Engineering	UFI Innovation Center India Pvt. Ltd
36	Sentiment Analysis On Prediction Market Data (PROBO)	Amitabha Bagchi	Department of Computer Science and Engineering	PROBO Media Technologies Pvt Ltd

S. No.	Project Title	PI Name	Department / Centre / School	Client
37	Advice On Visual Representation of Quantitative Data For UNIDO'S National Manufacturing Innovation Survey (NMIS)	Agam Gupta	Department of Material Sciences and Engineering	UNIDO DELHI
38	Chapter On Structure & Performance of Indian Automotive Sector	Hussain Kanchwala	Centre for Automotive Research and Tribology	UNIDO DELHI
39	Adhesion Strength Measurement of Multilayered Tarpaulin	Naresh V. Datla	Department of Mechanical Engineering	Rajeshwari & Associate
40	Concrete Mix Design For Silicon City, Crystal Homes	Supratic Gupta	Department of Civil Engineering	NBCC (INDIA) Ltd.
41	Endurance Test and Modal Analysis of Pipes	Ashish K Darpe	Department of Mechanical Engineering	Bengal Industries Pvt. Ltd.
42	Development of Veil of 10-50 GSM of T-Link Resins For Adhesive Application In FRP Composites	Naresh Bhatnagar	Department of Mechanical Engineering	L&L Products India Pvt. Ltd.
43	Compilation of Good Practices and Lesson Learned On Stup and Implementation of National Systems of Innovation	Ambuj Sagar	School of Public Policy	Phylipsen Climate Change Consulting, Netherlands
44	Water Balance of The Industry and Adequacy Assessment of ETP of Vadilal Industrial Ltd.	Vivek Kumar	Centre for Rural Development Technology	Vadilal Industries Ltd.
45	Consultancy For Specification and Scope Definition of 5 Type of VCS Equipment	Brejesh Lall	Bharti School of Telecommunication Technology and Management	Beetel Teletech Ltd. Gurgaon
46	Design of Shaft For Ropeway Drive.	S. P. Singh	Department of Mechanical Engineering	Asia Resort Ltd.
47	Dark Zone Problem For Connected Cars On Indian Roads	Gourab Ghatak	Bharti School of Telecommunication Technollgy and Management	Maruti Suzuki India Ltd.
48	Cognitive Load Assessment of Accessibility To Infotainment Keyboard While Driving.	Jyoti Kumar	Department of Design	Maruti Suzuki India Ltd.
49	Exploring Alternative Fuels For Firing In Thermal Power Boilers	Abhijeet Raj	Department of Chemistry	J .K. Paper Ltd.
50	Downstream development for production of biopharmaceutical raw	Anurag Singh Rathore	Department of Chemical Engineering	Rapsa Pharma Pvt. Ltd

S. No.	Project Title	PI Name	Department / Centre / School	Client
51	A Framework For Selecting An Appropriate Urban Public Transport System Indian Cities	Geetam Tiwari	Transportation Research and Injury Prevention Centre	The Infravision Foundation, Gurgaon
52	Scheduling PALP and PAPRT Process By Deep Reinforcement Learning	Hariprasad Kodamana	Department of Chemical Engineering	ABB Global Industries and Services Pvt. Ltd., Bengaluru
53	Biochemical and Molecular Approaches For The Detection of Pesticides and Nitrate To Differentiate Organic (Chemical-Free) Food From Conventional Food	Preeti Srivastava	Department of Biochemical Engineering & Biotechnology	Goploh Ventures Pvt. Ltd., Faridabad
54	Property Prediction of Chemical Compounds Towards Drug Discovery.	Sayan Ranu	School of AI	ACELOT INC
55	DEVELOPMENT OF PROCESS FOR THE EXTRACTION OF SPOONING & OIL FROM GUAR MEAL	S N Naik	Centre for Rural Development Technology	Hindustan Gum & Chemical Ltd
56	Consultancy For Specification and Scope Definition of Technique For Error Minimization In SDWAN Communication.	Brejesh Lall	Bharti School of Telecommunication Technology and Management	Lavelle Networks Pvt. Ltd. New Delhi
57	Algorithm Design and Implementation For Anomalous Sound Event Detection and Spoken Term Detection Tasks In Outdoor Environment	Arun Kumar	Centre for Applied Research in Electronics	Vehant Technologies Pvt. Ltd.
58	NEXT PHASE OF OPTIMIZATION OF FOODGRAIN DISTRIBUTION IN RAJASTHAN FOR MORE STATES (SUBPROJECT OF THE PSL PROJECT - FT/11/101/2021/164).	Nomesh B. Bolia	Department of Mechanical Engineering	United Nations (UN) World Food Programme (WFP) INDIA
59	Development of Test Method and Specify Their Limits For Tensile, Bond Strength and Thermal Adhesion of Tri-Ply Material Used For Manufacture of Utensils	Naresh V Dalta	Department of Mechanical Engineering	Buereau of Indian Standards
60	Design and Development of A Compact Electromechanical Harvester For High Shock Environments	Dhiman Mallick	Department of Electrical Engineering	A Paul Software Systems Pvt. Ltd.
61	Design and Prototyping of Industrialist Sensor For Smart Warehouse	Sunil Jha	Department of Mechanical Engineering	United Nations (UN) World Food Programme (WFP)
62	Investigating Electrical Characteristics of The Dynamic Capacitance of A 4t Pixel Enhance Dynamic Range	Mukul Sarkar	Department of Electrical Engineering	ON Semiconductor, Arizona

S. No.	Project Title	PI Name	Department / Centre / School	Client
63	Analysis of of Potential of High Strength Steel In Transmission Tower	Jayant Jain	Department of Material Sciences and Engineering	Sterlite Power Transmission Ltd.
64	Handloom Research and Development Project	Samrat Mukhopadhyay	Department of Textile Technology	Northeastern Council Secretariat
65	Characterization of Nr Vulcanizates With AFM and TEM	Nitya Nand Gosvami	Department of Material Sciences and Engineering	Tata Motors Ltd
66	Analysis of Effect of Chemical Composition (High Level of Phosphorus) On Mechanical Properties of Di Pipes.	Jayant Jain	Department of Material Sciences and Engineering	Jindal Saw Limited
67	Impact of Changing Rainfall Patterns On Toll Road Traffic In India	Yama Dixit	Centre for Atmospheric Sciences	Steer Davis Gleave India
68	Design of A Magnetic Tomography Method (MTM) Based Measurement System	Brejesh Lall	Bharti School of Telecommunication Technology and Management	Athena PowerTech LLP
69	Neuromorphic Computing and Applications of Spiking Neural Networks (SNN) For Research Program	Manan Suri	Department of Electrical Engineering	TCS Labs
70	Development of Mosquito Repellent Nonwoven Fabric Using Plant-Based Essential Oil	S. Wazed Ali	Department of Textile Technology	Jindal Poly Films Ltd.
71	Intelligent Hydroponics Using Spresense	Supreet Singh Bahga	Department of Material Sciences and Engineering	Sony India Software Centre Pvt. Ltd.
72	RF Network Stack	Abhishek Dixit	Department of Electrical Engineering	Probus Smart Things Pvt. Ltd.
73	Leakage Current Sensor Prototype Development	Santanu Mishra	Centre for Automotive Research and Tribology	Minda Corporation Ltd.
74	Design and Analysis of Diaphragm To Achieve A Life Cycle of 1 Million Cycles At 165 Bar Pressure In A Metalli Pressure Sensor	Jayant Jain	Department of Material Sciences and Engineering	WIKA Instruments India Pvt. Ltd.
75	High-Speed Wireless Terragraph Technology Trial In The 60ghz Band	Huzur Saran	Department of Computer Science and Engineering	FCL TECH INC.
76	Development of LIFI Network	Abhishek Dixit	Department of Electrical Engineering	Nav Wireless Technologies Pvt. Ltd.

S. No.	Project Title	PI Name	Department / Centre / School	Client
77	Reducing The Particle Size of Natural Mineral Tourmaline (MOGS Hardness-7)	Deepak Kumar	Centre for Automotive Research and	Havells India Limited
78	Identification of Key Performance Indicators For Itms of Delhi Using Simulation	Chakka Mohana Naga Sai Chand	Transportation Research and Injury Prevention Centre	Gaia S,art Cities Solutions Pvt. Ltd.
79	Assessment of PI/PU Insulation For Thermal Comfort An Energy Efficiency	Hussain Kanchwala	Centre for Automotive Research and Tribology	Kingspan Jindal Pvt Ltd
80	Combating Online Hate Speech Via Counterspeech Generation: Exploring Novel Datasets and Roles of Language and Multimodality	Tanmoy Chakraborty	Department of Electrical Engineering	The Logically Ltd.
81	Traffic Performance Evaluation and Optimization of Highways In Delhi Using Micro simulation	Sai Chand	Transportation Research and Injury Prevention Centre	Medulla Soft Technologies Pvt. Ltd.
82	Development and Deployment of Industrial Iot Sensors For Smart Warehouse	Sunil Jha	Department of Material Sciences and Engineering	United Nations (UN) World Food Programme (WFP)
83	High Performance Computing (HPC) Course Content For Intel UNNATI Program	Subodh Kumar	Department of Computer Science and Engineering	Intel Technology India Pvt. Ltd.
84	Exploring The Roles of Network Topology, Temporal Online Interactions, and Downstream Tasks In Graph Representations Learning	Tanmoy Chakraborty	Department of Civil Engineering	Meta Platform Inc. Usa
85	Preliminary Study of The Drive train System For The Development of Intelligent Condition Monitoring System (CMS) For Wind Turbine	Shahab Fatima	Centre for Automotive Research and Tribology	Adani Green Energy Ltd.
86	Taxonomy Based Recommendation For Samsung Free News	Tanmoy Chakraborty	Department of Electrical Engineering	Samsung India Electronics Pvt. Ltd.
87	Analog Fe For High Dynamic Range CMOIS Sensor	Rakesh Kumar Palani	Department of Electrical Engineering	DV2JS, New Delhi
88	Development and Characterization of Friction Materials (Clutch Facings)	Deepak Kumar	Centre for Automotive Research and Tribology	Shakti Automotive Components Pvt. Ltd.
89	To Find A Superior and Sustainable Method of Plating Rose Gold (On Silver Jewellery), That Ensures Better Plating Strength and Life (>12 Months), Without Any Increment in Plating Cost.	Jayant Jain	Department of Material Sciences and Engineering	Indiejewel Fashions Pvt. Ltd.
90	Participatory Tools for Community Forest Governance	Aaditeshwar Seth	SCHOOL of IT	Tarides India Pvt. Ltd.

S. No.	Project Title	PI Name	Department / Centre / School	Client
91	Smart PFAS (Personal Fall Arrest System)	Husain Kanchwala	Centre for Automotive Research and Tribology	Karam Safety Pvt. Ltd.
92	Design Analysis & Manufacturing of Time Capsule For Amritpex-2023	Suryanarayana Vikrant Karra	Department of Material Sciences and Engineering	Chief Postmaster General, Delhi Circle
93	Development of CQD Based MWIR Photo Detectors	Sameer Sapra	Department of Chemistry	Mishran Semiconductor Pvt. Ltd.
94	An Investigation Into Improving The Performance of Ai Based Academic Reading/Writing Tools	Tanmoy Chakraborty	Department of Electrical Engineering	Crimson Ai Pvt. Ltd.
95	Special Paper Development	Ashwani K. Agrawal	Department of Textile Technology	J. K. Paper
96	Scoping Ececese To Understand The Landscape of Multisectoral Integration In India In India For Assistive Technology (At) Innovation and Improving Access	Madhusudhan Rao	Department of Design	World Health Organization
97	Energy and Sustainability Initiative	Ambuj D Sagar	School of Public Policy	BP Exploration Alpha Limited
98	Faculty Cash Award By Agmatel India Pvt. Ltd.	Abhishek Dixit	Department of Electrical Engineering	Agmatel India Pvt. Ltd., Delhi
99	Consultancy Services For Proof Checking of DPR For Construction of Rail Cum Highway Under Water Tunnel Including Approach Road Across Mighty River Brahmaputra Approximately In Between Packhigaon (Jamugiri) and Kaliabor Tea Estate (Silghat) Under Project Vartak In Assam State Including Maintenance For A Period of 10 Years.	K. N. Jha	Department of Civil Engineering	Directorate General Border Roads
100	Separating The What From The How In Pretrained Language Models: A Step Towards Generic Ai	Tanmoy Chakraborty	Department of Electrical Engineering	DRDO
101	Deep Learning Approaches For Improved Patient Care In Cardiovascular Disease	Anurag Singh Rathore	Department of Chemical Engineering	University of Illinois
102	Recommending First Response Services To Patients Through Natural Language Conversations	Mausam	Department of Computer Science and Engineering	Google Asia Pacific Pte Ltd, Singapore
103	Algorithmic Fairness In Allocation Problems	Sayan Ranu	Department of Computer Science and Engineering	Google Asia Pacific Pte Ltd, Singapore

S. No.	Project Title	PI Name	Department / Centre / School	Client
104	Best of Both Worlds in Fair Division of The Indivisibles	Rohit Vaish	Department of Computer Science and Engineering	Science and Engineering Research Board (SERB)
105	Memory-Centric Intelligent Hardware Exploration For Sponsor's Mixed Reality Platform Testing (Phase-2)	Manan Suri	Department of Electrical Engineering	Meta Platforms Technologies, Llc, Us
106	Optimization of Foodgrain Distribution For The Country & Five Support For Implementation In Collaboration With UNWFP (Extension of Project FTT/11/101/2021)	Nomesh B. Bolia	Department of Material Sciences and Engineering	Department of Food and Public Distribution, New Delhi
107	Optimization of Fci Interstate Foodgrain Distribution & Five Year Support For Implementation In Collaboration With UNWFP (Extension of Project FTTT/11/101/2021)	Nomesh B. Bolia	Department of Material Sciences and Engineering	Department of Food and Public Distribution, New Delhi

Appendix – IV

Some of our Corporate Members of FITT

S. No.	Company
1	East India Tech Pvt. Ltd.
2	Motherson Innovation Tech. Ltd.
3	Napino Auto Industries Ltd.
4	Pidilite Industries Ltd.
5	Security & Printing Corp. of India Ltd.
6	Maruti Suzuki India Ltd.
7	KPL International Pvt. Ltd.
8	S. P. Singla Construction Pvt. Ltd.
9	SRF Ltd.
10	BSES Yamuna Power Ltd.
11	Accuster Technologies Pvt. Ltd.
12	High Performance Textiles Pvt. Ltd.
13	Araina Enterprises Pvt. Ltd.
14	Computeminions Pvt. Ltd.
15	Academy of Industrial Management
16	Fresenius Kabi Oncology
17	FLF Business School

Annual Accounts



BALANCE SHEET

as at 31st March 2023

₹ in Crores

Particulars	Note	As at 31st March, 2023	As at 31st March, 2022
Source of Funds			
1			
Corpus Funds			
Seed Money		16,200,000	16,200,000
2	1	290,395,267	258,341,812
Reserves and Surplus			
3	2	112,168,369	95,603,281
Research and Development Fund			
4	3	331,378,598	271,964,988
Other Fund			
		750,142,234	642,110,081
Application Of Funds			
1	4		
Fixed Assets			
(A) Gross Block	38,935,156		23,221,895
(B) Less: Depreciation	4,643,638		1,898,421
(C) Net Block		34,291,517	21,323,475
2	5	730,420,644	597,473,862
Investments			
3	6	798,451,519	680,199,932
Current Assets Loan & Advances			
Less : Current Liabilities	7	813,021,447	656,887,187
Net Current Assets		-14,569,927	23,312,745
		750,142,234	642,110,081
Notes to the Financial Statements	13		

The Schedule Referred to Above Form an Integral Part of the Accounts

As Per our Attached Report of Even Date

For **GAURAV K ARORA & CO**
Chartered Accountants
FRN: 025889N

For Foundation for Innovation and Technology Transfer

GAURAV ARORA
Proprietor
M. No.519054

Col. Naveen Gopal
(Chief Operating Officer)

Prof. Preeti Ranjan Panda
(Managing Director)

Place: New Delhi

Date: 26.09.2023

INCOME AND EXPENDITURE ACCOUNT

for the year ended 31st March 2023

₹ in Crores

Particulars	Note	As at	
		31st March, 2023	31st March, 2022
Income			
Project Development & Technology Receipts	8	567,471,329	290,544,389
Other Income	9	98,194,707	53,779,286
		665,666,036	344,323,676
Expenditure			
Project Research & Development Expenses	10	549,649,975	278,819,394
Establishment Expenses	11	25,161,662	23,933,218
Information Support Services		649,500	374,400
Award / Scholarship		100,000	100,000
Depreciation	4	4,643,638	1,898,421
Administrative Expenses	12	53,407,805	35,044,829
		633,612,580	340,170,262
Excess of Income Over Expenditure		32,053,456	4,153,414
Notes to the Financial Statements	13		

The Schedule Referred to Above Form an Integral Part of the Accounts

As Per our Attached Report of Even Date

For **GAURAV K ARORA & CO**
Chartered Accountants
FRN: 025889N

For Foundation for Innovation and Technology Transfer

GAURAV ARORA
Proprietor
M. No.519054

Col. Naveen Gopal
(Chief Operating Officer)

Prof. Preeti Ranjan Panda
(Managing Director)

Place: New Delhi

Date: 26.09.2023

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023	As at 31st March, 2022
1	RESERVES & SURPLUS		
	Capital Reserve	2,555,812	2,555,812
	General Reserve	255,786,000	251,632,586
	Excess of Income Over Expenditure	32,053,456	4,153,414
		290,395,267	258,341,812
2	RESEARCH & DEVELOPMENT FUNDS		
2(i)	FITT Project Promotion Fund		
	Opening Balance	12,137,202	12,746,037
	Add : Additions During The Year	159,203	181,894
		12,296,405	12,927,931
	Less : Utilised During The Year	2,000,000	790,729
		10,296,405	12,137,202
2(ii)	FITT CONSULTANT FUND		
	Opening Balance	35,882,976	37,690,865
	Add : Additions During The Year	20,055,780	4,615,104
		55,938,756	42,305,968
	Less : Utilised During The Year	7,556,107	6,422,992
		48,382,648	35,882,976
2(iii)	FITT DEPARTMENT DEVELOPMENT FUND		
	Opening Balance	40,705,751	37,466,086
	Add : Additions During The Year	7,525,900	3,913,379
		48,231,651	41,379,465
	Less : Utilised During The Year	1,692,191	673,714
		46,539,460	40,705,751
2(iv)	CENTRAL ADMINISTRATIVE FUND		
	Opening Balance	773,763	34,163
	Add : Additions During The Year	1,018,953	739,600
		1,792,716	773,763
	Less : Utilised During The Year	1,758,552	-
		34,164	773,763

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023	As at 31st March, 2022
2(v)	IIT STUDENT WELFARE FUND		
	Opening Balance	94,000	94,000
	Add : Additions During The Year	-	-
		94,000	94,000
	Less : Utilised During The Year	-	-
		94,000	94,000
2(vi)	FITT ADMINISTRATIVE FUND		
	Opening Balance	6,009,589	5,686,294
	Add : Additions During The Year	1,106,993	482,084
		7,116,583	6,168,378
	Less : Utilised During The Year	294,891	158,789
		6,821,692	6,009,589
		112,168,369	95,603,281
3	OTHER FUND		
3(i)	TBIU - TIDE SEED FUND REPAYMENT		
	Opening Balance	10,850,441	9,080,991
	Add : Additions During The Year	-	4,119,450
		10,850,441	13,200,441
	Less : Utilised During The Year	-	2,350,000
		10,850,441	10,850,441
3(ii)	TBIU - MCIT SEED FUND REPAYMENT		
	Opening Balance	4,393,601	4,193,601
	Add : Additions During The Year	-	200,000
		4,393,601	4,393,601
	Less : Utilised During The Year	-	-
		4,393,601	4,393,601
3(iii)	TBIU - FUND (3% ROYALTY/SHARES BUY-BACK/DEFERED LOAN)		
	Opening Balance	7,729,842	7,484,973
	Add : Additions During The Year	204,642	244,869
		7,934,484	7,729,842
	Less : Utilised During The Year	-	-
		7,934,484	7,729,842

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023	As at 31st March, 2022
3(iv) TDB - SEED FUND REPAYMENT			
Opening Balance	3,380,857		2,780,857
Add : Additions During The Year	450,000		600,000
	3,830,857		3,380,857
Less : Utilised During The Year	2,300,000	1,530,857	-
			3,380,857
3(v) BIRAC- BIG A/C			
Opening Balance	9,826,345		40,020,721
Add : Additions During The Year	115,996,817		1,157,132
	125,823,162		41,177,853
Less : Utilised During The Year	54,379,310	71,443,852	31,351,508
			9,826,345
3(vi) BIRAC-BBIF-A/C			
Opening Balance	1,948,988		1,948,988
Add : Additions During The Year	-		-
	1,948,988		1,948,988
Less : Utilised During The Year	-	1,948,988	-
			1,948,988
3(vii) DST-NIDHI A/C			
Opening Balance	95,716,178		36,777,112
Add : Additions During The Year	6,887,421		124,569,562
	102,603,599		161,346,673
Less : Utilised During The Year	20,025,325	82,578,274	65,630,495
			95,716,178
3(viii) BIRAC SEED FUND A/C			
Opening Balance	34,353,682		7,490,224
Add : Additions During The Year	636,335		26,943,358
	34,990,017		34,433,582
Less : Utilised During The Year	28,618,584	6,371,433	79,900
			34,353,682

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023		As at 31st March, 2022
3(viii) GST NETWORK-CSRFUND				
Opening Balance	637,887		637,887	
Add : Additions During The Year	-		-	
	637,887		637,887	
Less : Utilised During The Year	-	637,887	-	637,887
3(ix) FITT- BIRAC LEAP FUND				
Opening Balance	4,483,700		4,495,500	
Add : Additions During The Year	26,927,257		-	
	31,410,957		4,495,500	
Less : Utilised During The Year	54,280	31,356,677	11,800	4,483,700
3(x) FITT SPARSH				
Opening Balance	3,088,505		1,333,736	
Add : Additions During The Year	4,887,882		7,040,812	
	7,976,387		8,374,548	
Less : Utilised During The Year	5,829,488	2,146,899	5,286,043	3,088,505
3(xi) FITT TIDE 2.0				
Opening Balance	10,112,256		9,932,584	
Add : Additions During The Year	-		3,850,000	
	10,112,256		13,782,584	
Less : Utilised During The Year	10,166,129	-53,873	3,670,328	10,112,256
3(xii) INNOVATIONS FOR DEFENCE EXCELLENCE (IDEX)				
Opening Balance	3,638,388		5,228,281	
Add : Additions During The Year	-		-	
	3,638,388		5,228,281	
Less : Utilised During The Year	1,590,599	2,047,789	1,589,893	3,638,388

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023	As at 31st March, 2022
3(xiii)	HDFC SMARTUP GRANT		
	Opening Balance	3,000,000	8,000,000
	Add : Additions During The Year	-	-
		3,000,000	8,000,000
	Less : Utilised During The Year	266,000	5,000,000
		2,734,000	3,000,000
3(ix)	SONA COMSTAR - IITD		
	Opening Balance	16,518,724	2,488,161
	Add : Additions During The Year	12,470,000	18,480,000
		28,988,724	20,968,161
	Less : Utilised During The Year	16,897,417	4,449,437
		12,091,307	16,518,724
3(x)	PHD INCUBATOR		
	Opening Balance	6,966,240	6,966,240
	Add : Additions During The Year	847,458	-
		7,813,698	6,966,240
	Less : Utilised During The Year	1,626,900	-
		6,186,798	6,966,240
3(xi)	COE-PROCESS SAFTEY		
	Opening Balance	55,319,354	-
	Add : Additions During The Year	979,952	60,095,000
		56,299,306	60,095,000
	Less : Utilised During The Year	14,120,123	4,775,646
		42,179,183	55,319,354
3(xii)	BOINEST-BIRAC-GRANT		
	Opening Balance	-	-
	Add : Additions During the Year	45,000,000	-
		45,000,000	-
	Less : Utilised During The Year	-	-
		45,000,000	-
		331,378,598	271,964,988

SCHEDULES FORMING PART OF THE BALANCE SHEET

SCHEDULE NO. 4

BLOCK OF ASSETS AS PER THE INCOME TAX ACT, 1961

S. No.	Particulars	Rate	WDV as on 01-04-2022	GROSS BLOCK			NET BLOCK		
				Deletion of assets	Addition of assets > 180 Days	Addition of assets < 180 Days	Total as on 31-03-2023	During the year 2022-23	WDV as on 31-03-2023
FITT									
1	Computers	40%	640,331	23,890	43,983	59,890	720,314	276,148	444,166
2	Furniture & Fixtures	10%	14,277,120		7,481,998		21,759,118	2,175,912	19,583,206
3	Printer	40%	20,617	23,990			(3,373)	(1,349)	(2,024)
4	Inverter	15%	24,847				24,847	3,727	21,120
5	Air Conditioners	15%	88,572				88,572	13,286	75,286
6	Photocopier	15%	31,896				31,896	4,784	27,112
7	Projector	15%	47				47	7	40
8	Office Equipments	15%	236,235	10,000	86,000	530,402	842,637	86,615	756,022
9	Fitt Extn. Office	10%	31,603				31,603	3,160	28,443
10	TBIU Office Module	10%	84,451				84,451	8,445	76,006
11	TBIU - Synergy Bldg	10%	4,225,523				4,225,523	422,552	3,802,971
12	Software	25%	20,496		2,688,000	2,417,468	5,125,964	979,308	4,146,656
13	Office Equipments	15%	41,000				41,000	-	41,000
Total			19,722,737	57,880	10,299,981	3,007,760	32,972,599	3,972,595	29,000,004

SCHEDULES FORMING PART OF THE BALANCE SHEET

S. No.		Particulars	Rate	WDV as on 01-04-2022	GROSS BLOCK		NET BLOCK	
					Deletion of assets	Addition of assets	Total as on 31-03-2023	During the year 2022-23
ITECH								
14		ITEC-Furniture & Fixtures	10%	649,812	-	649,812	64,981	584,831
15		ITEC - Office Equipments	15%	950,926	-	950,926	142,639	808,287
TOTAL				1,600,738	-	1,600,738	207,620	1,393,118
Sonepat								
S. No.		Particulars	Rate	WDV as on 01-04-2022	GROSS BLOCK		NET BLOCK	
					Deletion of assets	Addition of assets	Total as on 31-03-2023	During the year 2022-23
RI Pari								
1		Furniture & Fixtures	10%	-	1,502,908	638,060	182,194	1,958,774
2		Office Equipments	15%	-	1,403,829	578,722	253,979	1,728,572
3		Software	25%	-	-	136,800	17,100	119,700
4		Leasehold Improvements	10%	-	101,500	-	10,150	91,350
TOTAL				-	3,008,237	1,353,582	463,423	3,898,396

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars	As at 31st March, 2023	As at 31st March, 2022
5 INVESTMENTS		
Deposits With Scheduled Bank	698,754,778	597,388,862
Shares Of Unlisted Company	85,000	85,000
Investments In Bonds	31,580,866	-
	730,420,644	597,473,862
6 CURRENT ASSETS, LOANS AND ADVANCES		
BALANCE WITH SCHEDULED BANK		
- Canara Bank	15,111,044	12,390,451
- SBI - 1968	201,894,664	170,390,255
- SBI FCRA Account	12,159,423	65,911,061
- SBI - DBT-1376	12,626,471	14,532,151
- SBI-Bigs	88,887,221	22,869,067
- HDFC Bank	666,487	71,262,605
- HDFC Bank - BIRAC Seed Fund	132,584	59,499,081
- SBI BBIF - 1330903	2,977,879	2,977,879
-Canara Bank - 1671 (Sparsh)	3,110,873	5,016,858
-Canara Bank - 1675 (ITTO)	12,564,637	23,615,911
- Canara Bank - 1843 (COE)	50,639,967	61,030,164
- Canara - Bionest - 1100107923648	45,000,000	
- Canara 110051686828	20,117,225	
- Canara 110074480063	3,665,997	
- State Bank of India - FCRA (0787)	159,454,450	55,690,742
- DBS Bank	100,000	
- State Bank of India (R&I - 0102)	-	1,194,372
- HDFC Bank - I - Tech Sonapat	3,573,622	3,629,565
- HDFC Bank R&I	1,465,905	-
- State Bank of India R&I	10,930,523	-
	645,078,971	570,010,162

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023	As at 31st March, 2022
	Grant To IITD (Prepaid Rent)	50,000,000	50,000,000
	R&I Park Advance	3,000,000	2,500,000
	Advance To Vendor (R&I)	438,387	111,764
	Advance To Vendor	113,350	-
	TaxDeducted At Source (Receivable)	91,248,020	54,933,869
	Development Support	412,670	412,670
	Security Deposit	1,287,407	201,447
	Staff Advance	372,731	298,815
	Gst TDS Receivable	4,202,880	1,390,745
	Reimbursement from AIC-Sonipat	29,940	290,900
	IITD Reimbursements	-	49,560
	Sundry Debtors	2,267,162	
		798,451,519	680,199,932
7	CURRENT LIABILITIES		
7(i)	PROJECT ACCOUNT		
7(ia)	Opening Balance Ongoing Projects	403,484,796	392,740,898
	Add : Transferred from Hold Project	23,681,856	6,443,655
	Add : Receipts During The Year	671,705,854	336,895,385
		1,098,872,506	736,079,938
	Less : Utilised During The Year	549,574,975	278,754,394
	Less : Transferred to Income & Expenditure A/C	17,896,354	11,789,995
	Less: Transferred To Hold Project	31,949,693	42,050,753
	Closing Balance Ongoing Projects	499,451,484	403,484,796
7(ib)	Opening Balance Project Advance	(16,420,698)	(15,268,960)
	Add : Increase in Project Advance	(22,455,429)	(23,767,480)
		(38,876,127)	(39,036,440)
	Less : Decreasein Project Advance	(29,270,475)	(22,615,742)
	Closing Balance of Projects Advance	-9,605,652	-16,420,698

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars		As at 31st March, 2023	As at 31st March, 2022
7(ic)	Opening Balance of Projects on Hold	139,564,704	103,957,606
	Add : Increase in Projects on Hold	31,949,693	42,050,753
		171,514,398	146,008,359
	Less : Decrease in Projects on Hold	23,681,856	6,443,655
	Closing Balance of Projects on Hold	147,832,542	139,564,704
		637,678,374	526,628,802
7(ii)	OTHER CURRENT LIABILITIES		
	Opening Balance Other Current Liabilities	130,258,385	124,883,121
	Add : Increase in Other Current Liabilities	1,128,621,112	657,753,092
		1,258,879,497	782,636,213
	Less : Decrease in Other Current Liabilities	1,083,536,424	652,377,828
	Closing Balance Other Current Liabilities	175,343,073	130,258,385
	Total [7(Ia)+7(Ib)+7(Ic)+7(Ii)]	813,021,447	656,887,187
8	PROJECT DEVELOPMENT & TECHNOLOGY RECEIPTS		
8(i)	Projects and Development Funds	549,574,975	278,754,394
		549,574,975	278,754,394
8(ii)	Service Income from Project & Development Funds		
	FITT Overhead Charges from Projects	16,918,902	10,815,979
	Seminar/Workshops/HRD Prog	845,404	717,968
	Royalty Income	132,048	256,048
		17,896,354	11,789,995
	Total[8(I)+8(Ii)]	567,471,329	290,544,389

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars	As at 31st March, 2023	As at 31st March, 2022
9 OTHER INCOME		
Corporate Membership Fee	220,000	157,500
Interest on Income Tax Refund	-	702,272
Interest on Banks Deposits / Bonds	25,966,439	23,819,182
Interest on Savings Account	12,605,907	9,511,517
FITT Bbif & Tbiu Operating Income	3,485,137	3,037,151
FITT I-Tec-Sonipat Operating Income	112,070	12,713,820
I-Tec-Incubation Operating Income	444,175	764,810
CSR Overhead	3,860,144	1,912,150
Misc. Income	1,386,139	52,382
Chandrashekhar Bhawan-Incubation Income	32,000	221,314
Discount Receivable	56,129	7,964
Divident Income	-	112,500
Profit on Sale Of Share	-	5,450
R&I Income	50,026,567	761,274
	98,194,707	53,779,286
10 PROJECT RESEARCH & DEVELOPMENT EXPENSES		
Project Research & Develpoment Expense	519,783,146	269,069,228
Transferred to Project & Development at Source	29,866,829	9,750,167
	549,649,975	278,819,394
11 ESTABLISHMENT EXPENSES		
Employee Provident Fund Expenses	1,908,658	2,102,408
Gratuity Account	1,101,735	981,585
House Lease Rent	1,051,326	913,630
Medical Expenses	-	288,488
Medical Insurance	30,000	188,301
Pay & Allowances	21,069,943	19,458,806
	25,161,662	23,933,218

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars	As at 31st March, 2023	As at 31st March, 2022
12 ADMINISTRATIVE EXPENSES		
Audit Fees	250,000	395,000
AMC Charges	1,039,087	
Bank Charges	26,521	19,012
Books & Periodicals	6,988	7,984
Communication Expense	72,369	187,454
Conveyance Expense	658,509	360,233
Consumable	3,639,910	-
Catering Services	4,676,959	-
Electricity Charges	721,590	802,872
FITT BBIF Operating Expenses	1,137,390	308,369
FITT TBIU Operating Expenses	1,436,095	532,212
FITT I-TEC-Sonepat Operating Expenses	459,464	15,925,180
House Keeping Services	7,584,426	-
Internet Expenses	1,075,380	
Membership & Subscription	20,060	20,060
Printing & Stationery	127,729	69,538
Professional Fees	3,650,561	1,507,927
Recruitment Expenses	10,500	130,920
Rent Expense	576,485	705,976
Repair & Maintenance	802,501	115,573
Seminar & Meeting Expenses	465,236	9,735
Security & Manpower Services	8,937,867	-
Travelling Expenses	187,254	11,858
Office Expense	222,783	146,035
Interest Expense	679,713	902,748
Advt. / Publicity	1,219,521	59,880
Ird Share (10%) for Tech. T/F.	-	2,315,842
Penalty (Taxes)	60,880	-
Late Fees	100	-
Incubation Charges Return To IITD	4,744,896	4,068,160

SCHEDULES FORMING PART OF THE BALANCE SHEET

₹ in Crores

Particulars	As at 31st March, 2023	As at 31st March, 2022
Tender Fee	-	2,760
Architect Fee- R & I	1,427,397	1,947,600
Software Expenses	143,139	75,747
FITT Logo	69,713	47,035
Bad Debts/Contingencies / Discount Allowed	156,265	
Support Staff Expenses	1,850,438	
Misc. Expenses	131,041	
R & I Expenses	-	-
- Advertisement	-	5,865
- Cleaning Charges	-	308,000
- Consumable	1,776,810	186,404
- Contratual Staff	93,000	578,578
- Gardener	-	10,000
- House Keeping	1,907,173	1,747,597
- Printing & Stationary	13,336	28,446
- Security Service	1,189,864	1,072,220
- Staff Mang SER	-	432,000
- Office Expenses	28,242	
- Repair And Maintenance	28,500	
- Expenses Acceleration Program	102,050	
Round Off	63	7
	53,407,805	35,044,829

SCHEDULES FORMING PART OF THE BALANCE SHEET

1. SIGNIFICANT ACCOUNTING POLICIES

i) Accounting Convention

The Financial Statements of Society has been prepared under the Historical Cost Conventional methods. Society has been maintained accounts under cash system rather than accrual basis but some statutory accounts has been maintained under accrual basis.

ii) Fixed Assets And Depreciation

Fixed assets are valued at cost and Depreciation on fixed assets is provided on Written Down Value method in accordance with the rates and provisions of the Income Tax, 1961.

iii) Revenue Recognition

During the year, the Society recognises applied fund towards expense and transfer to its development funds and project as income of Society.

Income from Consultancy, Seminars, Retainer ships etc. is recognised on rendering of the service and receipt of the fees and FITT services charges, HRD/WORK SHOP, Royalty income which are transfer from various project funds has been treated as income of trust.

Interest income on deposit is accounted for on receipt basis consistently.

iv) Investments

Investments are valued at cost.

2. Equipment purchased for the project becomes the property of the IIT (D) on the conclusion of the project as per FITT's "Guidelines for handling consultancy proposals".
3. GST has been paid to the credit of Government as per invoice raised by FITT.
4. Previous year's figures have been regrouped/reclassified wherever considered necessary to make them comparable with those of the current year.

As Per our Attached Report of Even Date

For **GAURAV K ARORA & CO**
Chartered Accountants
FRN: 025889N

For Foundation for Innovation and Technology Transfer

GAURAV ARORA
Proprietor
M. No. 519054

Col. Naveen Gopal
(Chief Operating Officer)

Prof. Preeti Ranjan Panda
(Managing Director)

Place: New Delhi

Date: 26.09.2023



**Foundation for Innovation and Technology Transfer
Indian Institute of Technology Delhi**

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