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# Director's Report

oundation for Innovation and Technology Transfer (FITT) continues to be the foremost academic technology transfer organization having been in operation for about 19 years now. It enjoys a pre-eminent position in the country and strives to be amongst the successful such organizations in the world. FITT adopts a pro-active out-reach; the constantly evolving relationship between industry and academia largely determines it's approach in shaping partnerships for knowledge transfer and economic good. And, in this, the academic community of the Institute lends it's full support. The team at FITT contributes more than just the operational effort by blazing its intellectual and strategic caliber too.

At IIT Delhi, the fascinating role of FITT can be seen in enabling innovation, business partnerships, R&D projects, industrial consultancy, professional development programs, mutual visits, targeted meetings, corporate membership etc. This is necessitated by the key agenda of the Foundation to transfer technology and also inspire industrial relevance in academia. Importantly, FITT offers flexible and convenient interactive formats to a cross section of end users in various engagement modes. The two newsletters of FITT showcase the best IITD has to offer in terms of its expertise, technologies and infrastructure as well as other opportunities for realization of research.

It's no exaggeration that strong Government-Academia-Industry engagement can help proffer radical and novel methods to tackle various challenges facing the country. For example, various process innovations can lead to impactful solutions in areas of infrastructure, pollution, water, energy, financial delivery etc.

FITT plays an important role in exploiting the research capability of IIT Delhi. Working at the interface of business and research, FITT has been at the forefront of enabling innovations and technology commercialization by giving boost to partnerships and other value-accretive initiatives. We provide superior program management services. Our 'top line' is a story of steady operations which is encouraging yet, challenging us to attain higher levels of efficiency and effectiveness in our stated mission. The Institute is cognizant of the significance of protecting intellectual property and accordingly, we have filed over 280 patents till date and about 25 more are in the immediate pipeline. The Professional Candidate Registration program for focused knowledge augmentation continues to attract interest from amongst the neighboring industries and research organizations for their qualified professionals.

To encourage entrepreneurship based on technological innovation, FITT operates a Technology Business Incubator (TBIU) at the Institute. This flagship program of the Institute is amongst the leading technology commercialization platforms. As on March 2012, there were 12 technology start-up companies resident at the TBIU out of the 37 units admitted, since the launch of this program. Innovative Transport and Advantage Organic are the start-ups that have made successful exits this year for their scale-up and commercial operations. The Government support programs through DIT, DBT, DSIR, TDB and MSME are being facilitated by FITT for enabling regional economic growth through techno-entrepreneurship and we see a lot of interest amongst the targeted groups.

FITT, which primarily utilizes the resources and infrastructure of IIT Delhi is gradually seeing increasing interest amongst the faculty members of the Institute to work with industry. Such an engagement helps in addressing many practical challenges. Towards this, FITT strives to sustain partnerships and keeps on strategizing for increased value creation and thus, maintain it's special position at IIT Delhi.



# Key Activities, Projects and Initiatives

### A. Outreach and Collaboration

FITT works at the interface of business and research. It is mandated to reach out to business and community with whom it initiates and builds relationships. 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. For instance, industry representatives are regularly invited to make presentations to faculty groups in the Institute, highlighting their priority R&D areas and opportunities for collaborative work with IIT Delhi. There has been a higher level of R&D collaboration and exploratory study at the Institute, part of which has been carried out under the aegis of FITT. During the year 2011-12, there have been a number of visits to FITT by senior people from organizations like Panasonic, Pepsico, Corning, Medtronic, L'Oreal, Norner, General Cables etc. FITT also arranged the visits of faculty scientists to industries like Continental Carbon, Maruti and MGTL and Westfalia.
- FITT also engages with various inter-governmental and academic institutions for exploring partnerships with IIT Delhi. A few recent examples include AWEX (Belgium), University of York (UK), CNRS (France), IDSA (Delhi) etc.
- The biannual FITT newsletters FITT FORUM and FITT Technopreneurship BULLETIN serve as information diffusion channels addressing inter alia, contemporary technical issues, new developments and available opportunities for collaboration, and support for entrepreneurship. The

FORUM also profiles IIT Delhi's faculty members. The information reaches a wide spectrum of several hundred industrial units, R&D organizations, Government Agencies, Academic Institutions and others.

### Organized by FITT

- The eighth I2Tech IIT Delhi Open House 2012 was organized on Saturday, April 21, 2012. This is an event where the Institute showcases on-going research, technology & product development activities to the outside world.
- The India Wallonia Tech Program where FITT is partnering with AWEX of Belgium was inaugurated by H.E. the Belgian Ambassador to India Mr. Pierre Vaesen on May 23, 2011 at IIT Delhi. Eight startup companies from all over India were selected to participate in the program.

- In association with NEN, FITT organized a workshop for budding entrepreneurs: Business Models and Business Plans – 'Getting it right' at IIT Delhi during September 2nd to 4th, 2011.
- As part of its regular industry-academia programs, FITT organized a workshop on Innovation and Health Care in partnership with ARA Research Foundation on October 4, 2011 at IIT Delhi. The event was inaugurated by Prof. R K Shevgaonkar, Director IIT Delhi and the inaugural address was delivered by Dr. N K Ganguly, former DG, ICMR.
- In partnership with Samsung, FITT organized the Samsung Innovation Awards 2011 at IIT Delhi. The criteria of the winning projects were based on degree of innovation, feasibility, usability, relevance, time

to market and overall impact. The winning studentfaculty teams were felicitated on Nov. 16, 2011 with cash prizes by Mr. Jung Soo Shin, the President and

- The launch of ICICI TRINITY (Ideate, prototype, become entrepreneur) program was held at IIT Delhi on February 16, 2012. The program seeks to induce creative output and technological innovations from students that can help create an impact in the financial world in terms of new products or business processes.
- A Chemical Industry Academia Meet was organized on March 15, 2012 at IIT Delhi. The meet aimed to provide a platform for exchange of ideas and views between faculty, research scholars and industry partners. Prof. M Balakrishnan, Dy. Director (faculty) of IIT Delhi inaugurated the function followed by address from Prof. A N Bhaskarwar, Head, Deptt. of Chemical Engineering, IIT Delhi. There were presentations by various members of the faculty and industry.

### Conferences / Visits

Dr. A Wali, MD, FITT was invited as a keynote speaker / panelist / Chief Guest at several events like:

1. Deliver a lecture and conduct an interactive session on "Techno-Entrepreneurship" by the PDPM Indian Institute of Information Technology,

- July 4, 2011. CEO of Samsung South West Asia.
  - 2. Attended the Technology Week in Belgium during Sept. 2011 as part of the India Wallonia Tech Program 2011.

Design & Manufacturing (IIITDM), Jabalpur on

- 3. Invited as guest-of-honor to celebrate the Independence Day function on August 15, 2011 at IIITM Gwalior. On this occasion, IIITM also showcased various research projects / their outcomes of their faculty / students.
- 4. Along with Mr. K.K. Roy attended the pre-launch ceremony of the ICICI Trinity program on January 25, 2012 at Bombay and also to participate in the ensuing panel discussion on "Building Bridges: Technology and the Banking Sector".
- 5. Invited by Gujarat Biotechnology Mission, Vodadara as part of their Technology and Research Management Program to deliver lectures in the Universities / College at Ahmedabad and Vallabh Vidyanagar (Anand) to sensitize the students and faculty towards IPRs and technology commercialization during March 26-27, 2012.

### High Level Delegations Visits

- · French inter-ministerial delegation on Innovation visited FITT, IIT Delhi on May 25, 2011.
- Mr. Hirayama, Director, Global R&D and Mr. Kakimoto, Director, R&D Operation (India) of Panasonic visited FITT, IIT Delhi on June 7, 2011.
- A high level French delegation led by Dr. Joel Bertrand, CNRS Director General for Science visited FITT / TBIU on January 13, 2012.
- A senior level technical delegation from TMEIC, Japan visited FITT on February 27, 2012 for discussing research collaboration.

### Miscellaneous

As a part of its Golden Jubilee celebrations,



FITT participated in the Techno – Entrepreneurship Exhibition during February 23 – 25, 2012 wherein, the alumni entrepreneurs of the institute were invited to display their achievements. The objective of the program was to highlight the role of IIT Delhi alumni in nation building through employment generation, wealth creation and in providing technology leadership.

### B. Technology and Consultancy

Scientific and technological' advancement is an important catalytic factor in industrial development and economic progress. An indicator of such programs is the creation of intellectual property and the IPRs. The Institute encourages protection of intellectual assets to foster innovation and create opportunities for wealth creation. FITT facilitates and manages the Institute 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. However, of late, select IP registrations or IP investments has been taken up in association with specialist firms like Intellectual Ventures. The list of IPR applications approved for filing during 2010-12 is given in Appendix I. 33 IP cases were filed during the same period.

FITT is mandated to transfer technologies developed at IITD for commercialization. During the current financial year only a single IP license was executed (Appendix II). However, FITT is working on a few more technologies for transfer.

It is an accepted fact that technology development and its subsequent transfer to industry from an academic institute are often best accomplished through pursuance of short to medium term problem solving investigative projects. Such projects help in establishing mutual confidence and working relationships. A lot of thrust has been put on such projects by IIT Delhi faculty and FITT has facilitated in their effective execution. This activity has been growing over the years. During the financial year 2011–12, 83 technology development / transfer projects worth Rs. 936.74 Lakhs have been contracted.

### C. Innovation and Enterprise

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

The objective of the TBIU is primarily 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 workstation or a prototype laboratory within the Campus, with the intention of: i) promoting interaction with, and technology/expertise resourcing from the members of academic staff and research scholars of the Institute, and ii) 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.

More than just a modern physical infrastructure, FITT takes pride in offering to the budding technoentrepreneurs an ambient ecosystem that nurtures new age businesses. Hand-holding, networking, managerial and material support etc are easily forthcoming for the truly innovative forays.

Foundation for Innovation and Technology Transfer Annual Report 2011-2012

While, the responsibility of administration and dayto-day management of TBIU is vested with FITT, an institute level empowered committee (known as TBIU Board) overseas the programme. The Board as on March 31, 2012, comprised of:

- Prof. R K Shevgaonkar, Director, IIT Delhi --Chairman (Ex-officio)
- Prof. S N Singh, Dy. Director (O) IIT Delhi --Member (Ex-officio)
- 3. Prof. S K Koul, Dy. Director (S&P), IIT Delhi -- Member (Ex-officio)

- Prof. Suneet Tuli, Dean (RSI), IIT Delhi --Member (Ex-officio)
- Prof. Ashok Gupta, Dean (Infrastructure) IIT Delhi -- Member (Ex-officio)
- Mr. Ajai Chowdhry, former Chairman & CEO, HCL Infosystems -- Member
- Mr. Rajan Pandhare, Irene Health Care, New Delhi -- Member
- Mr. Pradeep Gupta, Chairman & MD, Cyber Media
   Ltd -- Member
- 9. Dr. Anil Wali, MD, FITT -- Member-Secretary

Another high level committee, the 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.

- The following start-ups (Promoters / Faculty) have been resident at (TBIU) during FY 2011-12:
- Advantage Organic Naturals Technologies Pvt Ltd. (Mr. Rajiv Rai Sachdev, MD; Prof. M L Gulrajani, et al., IIT Delhi), since March 2009.

The start-up is pursuing development of various garments embedded with natural dyes with medicinal properties using technologies developed by six faculty members in the Textile Technology Department (involved in the start-up). The start-up is hopeful of earning carbon credits for use of natural dyes and low temperature and lowwaste processing. It has filed patents for its technology.

 Gram Vaani Community Media Pvt. Ltd. (Dr. Aaditeshwar Seth, CEO; Prof. Huzur Saran, CSE, IIT Delhi), since December 2008.

The start-up has developed a transmission box for community radio broadcast network and is working at the pilot scale. Services provided over community radio include community engagements, interactive sessions, casting a vote, education / knowledge dissemination to the rural community / farmers etc.

3. Innovative Transport Solutions Pvt Ltd (Dr. (Ms.) Anvita Arora, CEO; Dr. (Ms.) Geetam Tiwari, TRIPP, IIT Delhi), since September 2008.

The main focus of the company is on providing scientific and technical solutions for traffic and transport systems and development of models for sustainable transport in cities.

 Global Motortech Pvt Ltd. (Prof. K R Rajagopal, DEE), since April 2009.

The start-up has ventured into products/services leveraging the promoter's core competencies in Motor Design & Analysis Software. It is focused on technologies for motor based equipment and achieved success in few products like low watt, ceiling fan, micro-throttle based switch motor etc.

 Faros Technologies Pvt Ltd. (Mr. Ravi Kapoor, CEO; Prof. S Mukherjee, DME, IIT Delhi), since December 2008.

The faculty – alumni promoted unit is into development of simulator sub components, simulators and providing simulations services.



 Yonyx Technologies Pvt Ltd. (Mr. Sanjay Bajaj, CEO; Prof. Sandeep Sen, CSE, IIT Delhi), since April 2010.

The start-up is developing intelligent business support solutions.

Innovative Mechatronix Solutions Pvt Ltd (Dr. Sunil Jha, DME), since April 2010.

The faculty promoted start-up envisions excellence in design, development and manufacture of micromachining systems, mass production of finishing process and mechatronic embedded systems. The targeted products for development are (i) Universal of Micromachining System, (ii) Magnetorheological mass product finishing machine and (iii) Wireless ODR System.

 Simplyfy Softwares Pvt Ltd (Mr. Anshuman Bansal, CEO; Dr. A S Rathore, Chemical Engineering, IIT Delhi), since June 2010.

The technology business by the start-up envisages a user friendly operating platform for biopharmaceutical manufacturers to capture, share and analyze information from biopharmaceutical processes.

 Shalya Medical Technologies Pvt Ltd. (Dr. Abhinav Sood, CEO; Prof. Naresh Bhatnagar, Mechanical Engineering, IIT Delhi), since February 2010.

The technology business by the start-up aims to focus on design and development of medical implants which includes Product Development (Medical implants and accessories) and Process Development (Manufacturing, Testing).

 Genesis Location Services Pvt Ltd. (Mr. Indrajeet, CEO; Prof. Santanu Choudhury, DEE, IIT Delhi), since January 2011.

The start-up aims to develop location based products and services in a variety of formats and across several verticals.

 Novo Informatics Private Ltd (Mr. Sahil Kapoor, CEO; Prof. B Jayaram, Coordinator SCFBio).

The start up envisages development of software products like Novo-genomics, Novo-Proteomics, Geno-analyzer and Disease specific database for bridging gap between bio-informatics and experimentation.

- c. Towards leveraging the Institute's forward looking agenda, FITT has adopted several programmes to enrich the entrepreneurial ecosystem and technology commercialization efforts at the Institute. Mention, in particular may be made of 'Technopreneur Promotion Programme' (TePP) of DSIR, Govt. of India under which individual innovators / start-ups can seek critical financial support. Seed support in the broad area of IT is also forthcoming under the Dept. of Information Technology (DIT) programme-"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 programme 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. FITT is also a beneficiary of the grant assistance of Rs. 1.00 crore from the Technology Development Board (TDB) for the specific purpose of providing early stage financial support to start-up units incubated at TBIU. Towards accomplishment of the programme objectives, FITT organized several awareness workshops disseminated promotional material and processed application proposals.
- d. The Department of Biotechnology, Govt. of India has selected FITT as one of the three BIG Partners in the country under a novel program called Biotechnology Ignition Grant (BIG) Scheme to support start-ups and scientist entrepreneurs from research institutions towards commercialization of research resultants by providing early stage grants for development and maturation of their discoveries / inventions

into marketable products. The BIG scheme is designed to establish and validate proof-of-concept and enable creation of spin-offs.

- e. The Department of Biotechnology, Govt. of India has recommended to support establishment of Biotech Incubator facility at FITT, IIT Delhi and sanctioned a total budget of Rs. 8.70 Cr for the proposed incubator for a period of three years.
- f. FITT has a Memorandum of Understanding with the Wallonia Foreign Trade and Investment Agency (AWEX), Belgium wherein Wallonia Tech program is designed to create high-profit sustainable global companies from pioneering start-ups using Wallonia as a hub for their expansion in Europe. Last year, eight companies were selected from all over India to participate in a week-long induction program in Belgium. This year too we are recommending applications for the India-WalloniaTech Programme 2012. Besides others, this partnership is aimed to help FITT recommend (incl. TBIU) technology start-up companies to gain access to the markets in the European Union.

D. Professional (HR) Development

a. Continuing Education for Industry has been a

- Programmes
- sustained activity and an important focus area of FITT. During 2011-12, 50 HRD programs of the gross value of Rs. 111.79 Lakhs were held with active

participation from industry. Appendix IV lists various such programmess undertaken by FITT during the year 2011-12.

- b. Consistent with it's objectives towards knowledge transfer, a program "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 can undertake a single professional course module of relevance at IIT Delhi and thus enhance their knowledge and skill set. A total of 89 candidates participated in this programme during I & II Semester of 2011-12. This is a programme that promises good potential in the targeted Delhi NCR region.
- c. The Educational Technology Services Centre of IIT Delhi develops single concept and full course video programmes. These video products are marketed by FITT. The gross value of the video products sold by FITT in 2011-12 is Rs. 0.449 Lakhs.

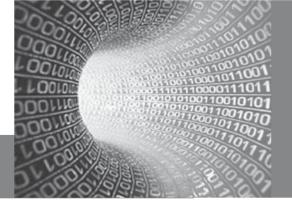
# E. Corporate Membership

A key objective of FITT is to have formal and effective relationship with the industry on a mutually supportive basis. One mechanism for formalizing this relationship is to offer corporate membership to Industry, Industry Associations and user-service organizations on payment of nominal annual fees. At present FITT has over 130 corporate members who are in regular receipt of information about Institute programmes and other opportunities for collaboration. The corporate members enjoy a variety of complimentary services and opportunities for partnership. The list of Corporate Members of FITT as on March 31, 2012 is given in Appendix V.

### F. 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.

The joint award for Ph.D. was awarded to two students namely, Mr. Krishnendu Chatterjee, CARE and



Mr. M V R K Sarma, DBEB, IIT Delhi. The M.Tech award to Mr. Ramesh Krishnan R, CPSE, IIT Delhi.

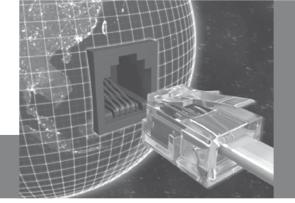
### G. National Technology Day

FITT, IIT Delhi celebrated the "National Technology Day" on May 11, 2012. Prof. R K Shevgaonkar, Director, IIT Delhi chaired the event and delivered key note address. The event had Mr. J Tyagi, Director (Works), DMRC as the chief guest. During the event, a national award winning documentary film on "The Dream Fulfilled - Memories of an Engineering Challenge" highlighting DMRC was shown. Several members of the Institute management, senior faculty, students and members of FITT were present. Besides, following technological innovations developed at the institute were presented by their inventor faculty members.

- Fabric Feel Tester Indian Prospective by Dr. Apurba Das, Textile Technology, IIT Delhi.
- Sanitation Technology by Dr. V M Chariar, CRDT, IIT Delhi.

### H. Recognition

FITT is a recognized (by DSIR) as Scientific and Industrial Research Organization (SIRO). As a SIRO, FITT is eligible for full custom duty exemption for import of capital goods, raw materials and technology knowhow that are required for execution of R&D programmes. FITT also functions as the recognized TUC-TePP Outreach Centre of DSIR for its Technopreneur Promotion Programme (TePP).



# Organization

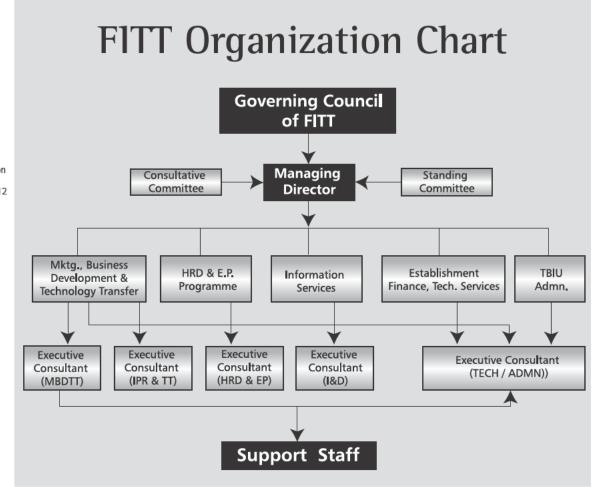
### Organization Structure

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 the FITT Governing Council. The broad organization structure is given in the organizational chart in this section.

### 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, large, medium and small sector industries (Category A, B and 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**

# Chairman

Prof. R. K. Shevgaonkar, Director, IIT Delhi

# Members

Prof. Suneet Tuli Dean (R&D), IITD

Prof. Sayed E. Hasnain,

KSBS, IITD

Prof. S R Kale, DME, IITD

Prof. M Balakrishnan,

CSE, IITD

Prof. Anshul Kumar,

CSE, IITD

Smt. Pratima Dikshit Director, Ministry of HRD Mr. Vikram S. Kirloskar

Vice Chairman, Toyoto Kirloskar

Motor Pvt. Ltd.

Smt. Sushma Berlia

President, Apeejay Stya Group

Mr. Yogesh Munjal, Managing Director Munjal Showa Limited

Mr. Ashwani Gupta

Scientist 'G'

Dept. of Science and Technology

Mr. Tushar Pandey

President and Country Head

(Strategic Initiatives, Govt. & Advisory)

Yes Bank Limited,

Mr. Jaideep Bihani Managing Director

Bihani Manufacturing Co. Pvt. Ltd.

Mr. Dipinder Sekhon

Director (Planning & Strategy) KritiKal Solutions Pvt. Ltd.

Dr. Anil Wali MD, FITT

Member-Secretary

# **Consultative Committee**

Dr. Anil Wali MD, FITT, Chairman

### Members

Prof. B Jayaram Chemistry, IIT Delhi

Prof. A K Gosain Civil Engg., IIT Delhi

Prof. A N Bhaskarwar Chemical Engg., IIT Delhi

Prof. A K Ghosh CPSE, IIT Delhi

Prof. B P Pal Physics, IIT Delhi

Prof. S R Kale Mechanical Engg., IIT Delhi Dr. Arun Kumr CARE, IIT Delhi

Mr. Vinod Sharma M.D. Deki Electronics Itd.

Mr. Madhukar Kapur CEO, C&S Electric Ltd.

Mr. V S Goindi

Chairman, Goindi Group

Dr. R K Malhotra

Director (R&D), IOC Limited

President, Secretary

IIT Delhi Alumni Association

Dr. P K Bhatnagar

Sr. VP, Ranbaxy Laboratories Ltd.

Mr. Anjan Das Sr. Director. CII

Mr. K K Roy

Sr. Manager (Tech./Admn.),

FITT, IIT Delhi

Mr. M Mahajan

Executive Consultant (IPR&TT)

FITT, IIT Delhi

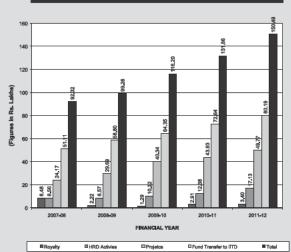


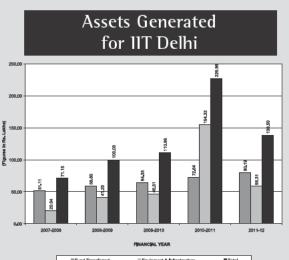
Financial Highlights

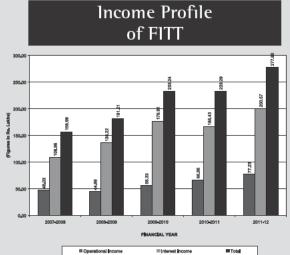
(Figures in Rs. lakhs)

					_	
	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
INVESTMENTS						
Bank deposits and bonds	1,213.50	1,438.50	1,738.50	2,228.50	2,328.50	2,303.50
Earnings						
(i) Interest	81.91	108.96	136.22	176.91	166.43	200.57
(ii) Projects/other activities	33.69	41.21	40.48	51.85	59.22	70.30
(iii) Corporate membership fees	4.64	4.74	4.00	4.36	5.71	4.66
EXPENDITURES						
(i) Capital	1.37	0.19	2.85	1.79	0.15	0.16
(ii) Operational/Promotional/ Administrative	57.51	57.21	87.00	112.31	95.93	95.92
(iii) Rent for office premises (Payable to IIT Delhi)	5.27	5.27	5.27	5.27	5.27	5.27
Fund for transfer to IIT Delhi (Project activities)	36.50	51.11	58.80	64.35	72.64	80.19
Assets generated for IIT Delhi out of project activities administered by FITT	19.71	20.04	41.2	46.61	154.32	58.31
Value of projects contracted/ Other activities at FITT	403.08	749.82	968.33	1,156.50	1,017.66	990.70

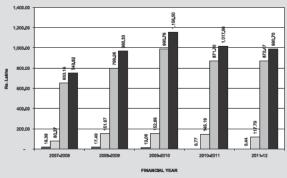












■Sale of Video Programmes □ HRD Programmes □ Projects (including Technology Transfer) ■Total

# Appendix - 1

# List of IPR Applications Approved by IITD IPR-SC During the Financial Year 2011-12

S.No.	Title	P.I./Deptt.
1	A synergistic process for submerged and solid state fermentation for higher yield/efficiency in Trichoderma	V Sahai, DBEB
2	Tertiary butylation of phenols with t-butyl alcohol using sulfonic acid functionalized ionic liquid catalysts	S Upadhyayula, Chem.
3	An apparatus and method for mobile-phone based water purification	R Bose, EE
4	Hybrid passive energy dissipation device for multipurpose vibration control of tall buildings	A Madan, CE
5	Novel Clinical Kit to estimate iron in humans	N Karmakar, CBME
6	A process and composition for obtaining a versatile mechanism for efficient down-streaming of proteins	M N Gupta, Chy
7	Synthesis of Gold and Silver nanoparticles and films using spray pyrolysis technique	V Dutta, CES
8	An improved micro-heater in silicon substrate for sensors using trench formation, backfill and CMP	S Chandra, CARE
9	A method and assembly for bidirectional data flow through an optical vortex network	V Chandra, EE
10	Walking Stabilizer	S N Singh, AM
11	Compositionally dispersed size-selected metal nanoparticles for enhancement of solar cell efficiency	B R Mehta, Phy.
12	A practical, viable and low cost electronic load controller for off grid small hydro unit using self excited induction generator	S S Murthy, EE
13	In-Plane wicking measurement system	A Das, TT
14	Developing efficient refolding method for large multi-domain recombinant protein Malate Synthase G (MSG)	T K Chaudhuri, KSBS
15	PVA supported resins for arsenic separation and product thereof	B Gupta,TT
16	A novel variant of L-Asparaginase and its Use thereof	B. Kundu, DBEB
17	Method for preparation of dispersible myco-tablets for bioremediation	A Malik, CRDT
18	Air entrainment in cement & cement mortars by Colloidal Gas Aphrons (CGA) for manufacture of aerated concrete	A N Bhaskarwar, CH

S.No.	Title	P.I./Deptt.
19	Orthosis for simultaneous 3D correction of club-foot	P M Pandey, ME
20	Design of Orthosis for Club – foot	P M Pandey, ME
21	A MEMS based low cost temperature sensors on silicon substrate using trench formation, backfill and CMP for detection of methanol	S Chandra, CARE
22	Versatile perfusion module for supporting membranes	J Gomes, DBEB
23	Pure hydrogen and bamboo-shaped carbon nanotypes production from methane using Cu-Zn promoted Ni/Al2O3 catalyst	K K Pant, CH
24	Bipolar charge plasma transistor: a novel three terminal device	M J Kumar, EE

# Appendix - 11

# 1P License Executed During the Financial Year 2011-12

S.	No.	Title	Principal Inventor	Deptt/Centre	Client
	1	An apparatus for measuring fabric hand value	Prof. Apurba Das	π	Texlab Industries, Ahmedadab

# Appendix - 111

# Select Development Projects Undertaken During the Financial Year 2011-12

S. No.	Title	PI	Deptt.
1	Development of Standard Cross-section for Urban Roads	Dr. G Tiwari	Civil Engg.
2	Finished Goods Inventory Management System	Dr. N Bolia	Mech. Engg.
3	Flow Visualization Study for ED paint flow problem	Prof. S V Veeravally	App. Mech.
4	LED Based Street Light Meeting IP-65 Standards	Dr. L K Das	IDDC
5	DPR for the scheme of up-gradation of Tenneries CETP at Kanpur	Dr. A K Mittal	Civil Engg.
6	Startegic Assessment of the Ganga	Prof. A K Gosain	Civil Engg.
7	Technical due diligence of deployment of solar panel and electrical fixture / design for fountain at Central park, Sector-95, Noida	Dr. S Mishra	Elect. Engg.
8	DPRs for 6 towns of Punjab for pollution abatement of river Ghaghghar in Punjab under NRCP Programme	Dr. A K Mittal	Civil Engg.
9	Abdomen / Thorax model building / validation (Phase-I)	Prof. A Chawla	Mech. Engg.
10	Conceptualization, Design and Development of third party virtual inspection portal	Prof. A K Gosain	Civil Engg.
11	An Investigation into shrinkage of core/wrap yarns based on changes in structural characteristics	Dr. A Rawal	Text Tech.
12	Humming – based music information retrieval for provision of know-how, algorithms development and prototype development	Dr. S Dutta Roy	Elect. Engg.
13	Integrity Analysis of Pipeline Weld Joints and Process Parameters Development using FM Approach	Prof. R K Pandey	App. Mech.
14	Polymer Nanocomposites: Application and Development	Prof. A K Ghosh	CPSE
15	CARS – Development of a methodology and its validation for vibration analysis of multi-stage isolation system for Raft mounted equipment using MDOF approach	Prof. S P Singh	Mech. Engg.
16	Operational Control Centre Design & Ergonomic Study for BMRC Ltd (Phase-III)	Dr. L K Das	IDDC
17	Implementation of Quality by Design (QbD) for production of biosimilar products	Dr. A S Rathore	Chemical Engg.

S. No.	Title	PI	Deptt.
18	Flow Sheet Simulation and Optimization of CO <sup>2</sup> Production Process	Dr. M A Shaik	Chemical Engg.
19	Quality by Design (QbD) based regulatory filling for biotech products	Dr. A S Rathore	Chemical Engg.
20	Development of compliant surfaces for reduced lube oil consumption	Prof. J Bijwe	ITMMEC
21	Design of long distance pipeline for pneumatic conveying of fly ash	Prof. V K Agarwal	ITMMEC
22	Design inputs for pneumatic conveying of fly ash	Prof. V K Agarwal	ITMMEC
23	Indigenous development of M R Fluid and demonstration of proto MR Device	Dr. S Jha	Mech. Engg.
24	Development of software for underwater domain awareness (UDA) for CICS	Prof. R. Bahl	CARE
25	Analysis and Design Simulation of Hanger and Cabin Bracket	Dr. S V Modak	Mech. Engg.
26	Groundwater Resources Assessment and Development Potential of Yamuna Flood Plain in NCT of Delhi – Phase-I: Preliminary Assessment	Prof. S N Naik	CRDT
27	Groundwater Resources Assessment and Development Potential of Yamuna Flood Plain in NCT of Delhi – Phase- II: Groundwater Development Potential Assessment incorporating Quality Aspects	Prof. S N Naik	CRDT
28	Validation of Selection and location of Surge Protection devices in Electrical Circuit at BTS Sites	Dr. S Mishra	Elect. Engg.
29	Formability Studies on IS 513 Steel Sheets	Prof. D R Kumar	Mech. Engg.
30	Design of test apparatus and testing of EPS panels as per ASTM standards	Dr. S Bishnoi	Civil Engg.
31	Viscosity of m-aramid dope solution	Prof. V Choudhary	CPSE
32	Analysis of VMCH sample	Prof. V Choudhary	CPSE
33	Solar panel design and optimization for running tubewell	Dr. S Jha	Mech. Engg.
34	Solar power operated water pump	Dr. S Jha	Mech. Engg.
35	Development of composites for tribological applications	Prof. J Bijwe	ITMMEC
36	Process development and optimization studies for therapeutic biotech products	Dr. A S Rathore	Chemical Engg.

S. No.	Title	PI	Deptt.
37	Study on Impact of HVDS/FRP Schemes	Dr. B K Panigrahi	Elect Engg.
38	Treatment of Producer Gas Plant Effluent	Prof. T R Sreekrishnan	DBEB
39	CFD simulations for analyzing effects of stent designs treatment of cerebral aneurysm	Dr. A S Rathore	Chemical Engg.
40	Experimental and numerical investigations of dispersed Gas-Liquid flow & Mixing in a Basic Oxygen Furnace	Dr. V V Buwa	Chemical Engg.
41	Development and commercialization of biotech therapeutic products	Dr. A S Rathore	Chemical Engg.
42	Modeling and optimal design of electrodialysis (ED) powered by renewable energy (i.e. Photovoltaic (PV) power)	Dr. A Shukla	Chemical Engg.
43	Monitoring and optimization of Ultra-filtration (UF), Microfiltration (MF) and Membrane Bioreactor (MBR) unit operations	Dr. A S Rathore	Chemical Engg.
44	"Design and development of high capacity biogas enrichment system using water scrubbing method"	Prof. PMV Subbarao	Mech Engg.
45	Development of toolkit on public transport and accessibility	Dr. G Tiwari	TRIPP
46	Development of toolkit on road safety and safety audits	Dr. G Tiwari	TRIPP
47	CARS Project "Development of Polyvinyl Acetate based resin as a binder for combustible cartridge case (CCC)	Prof. V Choudhary	CPSE
48	State Action Plan on Climate Change (SAPCC) and vulnerability assessment	Prof. A K Gosain	Civil Engg.
49	Development of biodegradable nanocarrier system for delivery of anticancer peptides	Prof. H Singh	CBME
50	Development of Polyurethane and modified Polyurethane with nano-materials coating for Power Plant applications	Prof. M Joshi	Text Tech.
51	2-in-1, self-orthodontic spring separator for predictable separation of teeth in orthodontic patients	Prof. A Kumar	Physics
52	Expert opinion with regard to novelty and inventiveness of invention described in 489/CHENP/2009	Prof. H M Chawla	Chemistry
53	"Advice for development of long term monitoring techniques using underwater acoustic technology (Phase-III)"	Prof. R Bahl	CARE
54	Development of a flexible refrigerator (Phase-I)	Prof. S Jain	Mech Engg.

S. No.	Title	Pl	Deptt.
55	State Action Plan on Climate Change (SAPCC) and Prof. A K Gosain vulnerability assessment		Civil Engg.
56	Services for Silver Plant Specialist	Prof. R Chattopadhyay	Text Tech.
57	Development of practical oriented teaching manual and set of MIC devices	Prof. S K Koul	CARE
58	Development of real time platform noise simulator software using time varying underwater channel	Prof. A Kumar	CARE
59	Design and Finite Element Analysis of large scale fire simulation chamber	Prof. M R Ravi	Mech. Engg.
60	Studies on thermal conductivity of brake blocks	Prof. J Bijwe	ITMMEC
61	Water availability, demand and adaptation option assessment of the Ganges basin under climate change	Prof. A K Gosain	CiviL Engg.
62	Design and development of smart energy monitoring and control device	Dr. Sunil Jha	Mech. Engg.
63	Fundamental studies on droplet coalescence and redispersion in liquid-liquid dispersions (Phase-IV)	Dr. S Roy	Chemical Engg.
64	Smartphone application acceptability and its impact on driving behavior of drivers in Delhi	Prof. D Mohan	TRIPP
65	Built environment modeling for urban renewal	Prof. A Sawhney	Civil Engg.
66	DLF for weakly meshed distribution system	Prof. P R Bijwe	Elect. Engg.

# Projects Involving Foreign Contribution During the Financal Year 2011-12

S. No.	Title	PI	Deptt.
1	Analysis of two-phase flow through fine channels of Porous Substrates (phase-V)	Dr. S Roy	Chemical Engg.
2	Automated fault detection and Diagnostics Rules for HVAC Systems (PhII)	Dr. S Jain	Mech. Engg.
3	Characterisation of polymeric isolators for dynamic properties and investigation of influence of operating parameters on dynamic properties	Prof. A K Darpe	Mech. Engg.
4	Driver behavior study in India	Prof. D Mohan	СВМЕ
5	Automated fault detection and diagnostics rules for HVAC systems (Phase-III)	Prof. S Jain	Mech. Engg.
6	Expert Report on Violation of Blackberry SDK Terms and Conditions	Prof. R K Mallik	Elect. Engg.
7	Analytical Characterization of Biotech Therapeutics	Dr. A S Rathore	Chemical Engg.
8	Impact of Climate Change on Hydropower Development: Water Resources Management for multiple uses in the Godavari River Basin	Prof. A K Gosain	Civil Engg.
9	Development of friction composites to evaluation potential of some solid lubricants	Prof. J Bijwe	ITMMEC
10	WATer and global Change (WATCH)	Prof. A K Gosain	Civil Engg.
11	To develop high dielectric constant thin film materials	Prof. B R Mehta	Physics

# Appendix – IV

# HRD Programmes Undertaken During the Financial Year 2011-12

	S. No.	Title	Pl	Deptt./Centre	Client
	1	Training Program for Civil Engineers on IS	Dr. V Matsagar	Civil Engg.	Larsen & Toubro, Faridabad
	2	Workshop on Low Power Embedded System using MSP430 Microcontroller by Texas Instruments, Bangalore	Prof. G S Visweswaran	Elect. Engg.	Participation Fee Based
	3	Global Internship Program in Engineering Design and Innovation	Prof. S Kar	Elect. Engg.	Participation Fee Based
	4	Training Program on Super Critical Power Generation Technologies	Prof. P M V Subbarao	Mech. Engg.	M/s Lanco Infratech Ltd., Gurgaon
	5	Economics of Renewable Energy Based Power Generation	Prof. T C Kandpal	CES	Participation fee based
	6	Training Programme on "Heat Exchanger Design"	Prof. S Jain	Mech. Engg.	M/s LG Electronics India Pvt Ltd., Noida
	7	PCR-8 PROFESSIONAL CANDIDATE PROGRAMME (1st Semester 2011-12)			Participation Fee Based
)	8	Bioinformatic amd Computational Biology	Prof. B Jayaram	Chemistry	Participation Fee Based
	9	Safety and Enironment Management of Construction Project	Dr. K N Jha	Civil. Engg.	Participation Fee Based
	10	OFDM and Synchronization	Dr. S Prakriya	Elect. Engg.	Landis + Gyr Limited, Noida
	11	O&M Training for PGCIL Employees	Dr. S Mishra	Elect. Engg.	Power Grid Coprn of India Limited, Gurgaon
	12	2011 I-BIM Student Competition	Prof. K C lyer	Civil Engg.	Autodesk India Pvt Ltd., Bangalore
	13	Training Programme on Bioinformatics & Computational Biology	Prof. B Jayaram	Chemistry	ICAR, New Delhi
	14	Super Critical Power Generation Technologies	Prof. P M V Subbarao	Mech. Engg.	NTPC, Korba

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S. No.	Title	PI	Deptt./Centre	Client
15	Short Course on Computer Graphics	Dr. S Kumar	CSE	Adobe, Noida
16	Resins & Polymers Technology	Prof. M Joshi	Text Tech.	Indian Paint & Coating Association, New Delhi
17	Training Programme on Turbine & Auxiliaries	Prof. P M V Subbarao	Mech Engg	Lanco Infratech Ltd., Gurgaon
18	O&M Training for PGCIL Employees (T-2)	Dr. S Mishra	Elect. Engg.	Power Grid Coprn of India Limited, Gurgaon
19	Advances in Earthquake Engineering	Dr. D R Sahoo	Civil Engg.	Participation fee based
20	In-house Training for Analysts of Smart Analyst India Pvt Ltd	Dr. N Chatterjee	Mathematics	Smart Analyst India Pvt Ltd, Gurgaon
21	O&M Training for PGCIL Employees (T-3)	Dr. S Mishra	Elect. Engg.	Power Grid Coprn of India Limited, Gurgaon
22	Advances in Earthquake Engineering	Dr. D R Sahoo	Civil Engg.	Participation fee based
23	Workshop on Sensor Network & Web Enablement	Prof. S Kar & Prof. S Chaudhury	Elect. Engg.	DST
24	Impact of Extreme Weather Events and Climate Change on Human Health	Prof. S K Dash & Dr. S Dey	CAS	DST
25	Training Prog on Tribology for ONGC Maintenance Engineers	Dr. H Hirani	Mech. Engg.	ONGC, Vadodara
26	Drivers and Barriers to Affordable Housing Technologies and Systems in India	Prof. A Sahwney and Prof. K C Iyer	Civil Engg.	BMPTC, New Delhi
27	Executive Education Program	Dr. N Bolia	Mech. Engg.	JCB India Ltd., Ballabhgarh
28	Global Internship Program in Engineering Design and Innovation	Prof. S Kar	Elect. Engg.	Participation fee based
29	O&M Training for PGCIL Employees (T-4 & 5)	Dr. S Mishra	Elect. Engg.	Power Grid Coprn of India Limited, Gurgaon
30	10th Indo German Winter Academy	Dr. V V Buwa	Chemical Engg.	Consortium Program
31	National Photonics Fellowship Meet	Prof. S Kar	Elect. Engg.	TATA Institute of Fundamental Research, Mumbai

	34	Short Course on "Fire Performance of Steel and Concrete Structures"	Dr. V A Matsagar	Civil Engg.	Participation fee based
	35	Land Records Modernization	Dr. G Habib	Civil Engg.	National Institute of Defence Estates Management, Delhi
	36	Boiler Performance & Optimization	Prof. P M V Subbarao	Mech. Engg.	NTPC, Rihand
	37	Support for the National Action Plan on Cliamte Change (SWAT Workshop)	Prof. A K Gosain	Civil Engg.	Asian Development Bank
	38	International Course on "Transportation Planning, Road Safety & Biomechanics"	Dr. G Tiwari	TRIPP	Sponsorship and Participation fee based
	39	Thermo Hydraulic Design of Shell and Tube Heat Exchange with Specialzation in Feed Water Heater Design	Prof. P M V Subbarao	Mech. Engg.	ISGEC, Yamunanagar
	40	O&M Training for PGCIL Employees (T-6, 7, 8 & 9)	Dr. S Mishra	Elect. Engg.	Power Grid Coprn of India Limited, Gurgaon
on   12	41	PCR-9 Professional Candidate Programme (IInd Semester 2011-12)			Participation Fee Based
	42	Training Program on "TG & Boiler"	Prof. P M V Subbarao	Mech. Engg.	Lanco Infratech Ltd., Gurgaon
	43	Artifical Neural Netwroks in Scismic Control of Structures	Dr. M M Rao	Civil Engg.	Participation fee based
	44	Training on Tribology	Dr. H Hirani	Mech. Engg.	ONGC, Vadodara
	45	Training on C-Ethernet	Prof. S Kar	Elect. Engg.	Fibcom India Ltd., Noida
	46	O&M Training for PGCIL	Dr. S Mishra	Elect. Engg.	Power Grid Coprn of India

Dr. S Mishra

PΙ

Prof. R S Rengasamy,

Dr. D Das

Prof. S K Dube,

Prof. A D Rao

Deptt./Centre

Text Tech.

CAS

Client

Participation fee based

World Metrological

Limited, Gurgaon

Limited, Gurgaon

Power Grid Coprn of India

Elect. Engg.

Organization

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S. No.

32

33

Title

Nonwovens Manufacturing,

Needle - Punched

Applications

Prediction

Characterization and

Training on Storm Surge

Employees (T-10, 12 & 14)

**O&M Training for PGCIL** 

Employees (T-11 & 13)

47

S. No	Title	PI	Deptt./Centre	Client
48	Executive Development Programme on "Marketing Strategy"	Dr. M Sagar	DMS	Participation Fee based
49	Workshop on Multimedia	Dr. B Lall	Elect. Engg.	Samsung India Software Centre
50	Training on Data Structure & Algorithms	Prof. N Garg	CSE	DKOP Labs Pvt Ltd., Noida

# Appendix - V

# **Corporate Members**

### CATEGORY - A

Pidilite Industries

3M India LG Electronics India

Acme Tele Power Luminous Power Technologies

ALCHEM International Marathon Electric India

Auto Ignition Maruti Suzuki India
Bajaj Steel Industries Minda Corporation

Baxter India Munjal Showa

BCH Electric Okaya Power

Bharat Petroleum Corporation Panasonic R&D Centre India

Canon India Polyplex Corporation

Carborundum Universal Ranbaxy Laboratories

Clutch Auto Reliance Industries

Danfoss Industries Rico Auto Industries

Ecel R&D Centre Star Wire(India)

Ester Industries Schneider Electric India

Fibcom India Shriram Polytech
Hero MotoCorp Sona Koyo Steering

High Polymers Additives S.P.Singla Constructions

Intex Technologies (India) SRF

Jasch IndustriesSterling ToolsJBM IndustriesTata ChemicalsJCB IndiaTata Industries

Jubilant Organosys Vardhman Textile

Larsen & Toubro

**Bony Polymers** 

### CATEGORY -B

Associated Traders Elico

Bharti Waters Frick India

Bhartiya Samrudhi Investments Consulting Services Indian Grameen Services

Bihani Manufacturing Indication Instruments

Biotech International In Trans Engineering

BSL Casting Joneja Bright Steels

Cenlub Industries LNM Auto Industries

C&S Electric M.BIT Computraining

Deki Electronics Om Paper Kraft (India)

Poly Medicure

Provimi Animal Nutrition India

Raunaq International SAIC India

Scientech Technologies

Shivalik Bimetal Controls

Skyquest Technology Consulting

The Scientific Instrument Company

**UOP India** 

Usha Breco

Wonder Polymers

### CATEGORY -C

Academy of Industrial Mangement

Allied Alloy Products

Allied Industries

Altacit Global

Ambala Cement

Anergy Instrument

**Anindus Consultants** 

Applied Research International

**ASHI** International

Biocraft Healthcare

Bonanza Consultants

Bridge dots Techservices C3i Consultants India

Dabur India

De Core Technology

**Ecosense Sustainable Solution** 

Faros Simulation Systems

**Gepnet Enviro Solutions** 

Green Brick Solutions

12 India

**Indore Colour Organics** 

Intercontinental Consultants Technocrats

JLJ Financial & Management

Kritikal Solutions

Mahalwale Enterprises

Manage Air Products

MB Educational Concepts

Mechartes Researchers

Naga Fragrance

**NEDO** 

**NET EDGE Computing Solutions** 

New Life Pharmaceuticals

**NRDC** 

Proderna Biotech

Span International

Shubhkarma Udyog

Sifter International

**SRISOL** 

S.S. Construction & Engineers

S.S. Foundry Chemical Industries

Steel Authority of India

Vidyut Yantra Udyog

Virtual Wire Technologies

### CATEGORY -D

Army Technology Centre

Dabur India

Dabur Research Foundation

**DKOP Labs** 

Intercontinental Consultants Technocrats

L'Oreal India

**NEDO** 

**NEERI** 

Steel Authority of India



**Annual Accounts** 



CONSULTANCY DIVISION: B-3/55, SAFDARJUNG ENCLAVE, NEW DELHI - 110029 TAX & AUDIT DIVISION: 28- B/7/1, JIA SARAI, (NEAR I.I.T.) NEW DELHI - 110016 Tel.: 26511878, 26516132 FAX: 011 - 26523317 E-MAIL: nac.pankaj@gmail.com

TEL.: PARTNER: PANKAJ AGARWAL: DIRECT: 26523317, 26523318 RES.: 26167665, 9810401127, 9873401127

# AUDITOR'S REPORT

Foundation for Innovation and Technology Transfer IIT Delhi, Hauz Khas New Delhi- 110016

- 1. We have audited the attached Balance Sheet of MIS Foundation for Innovation and Technology Transfer, New Delhi as on 31st March 2012 and also the Income & Expenditure Account for the year ended on that date, annexed thereto. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.
- 2. We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

- 3. Further to our comments above, we report that:
  - we have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit;
  - in our opinion, proper books of account as required by law have been kept by the Society so far as appears from our examination of the books of accounts;
  - the Balance Sheet and Income & Expenditure account dealt with by this report are in agreement with the books of account;
  - In our opinion and to the best of our information and according to the explanations given to us, the accounts give the information in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

- i) in the case of the balance sheet, of the state of affairs of the Society as at March 31, 2012; and
- in the case of the Income & Expenditure Account, of the Surplus of the Society for the year ended on that date.

For Neeraj Agrawal & Co. **Chartered Accountants** -Sd-

(Pankaj Agarwal)

Partner M.No.086877

Place: New Delhi Date: August 27, 2012 FRN: 004186N

# FOUNDATION FOR INNOVATION AND TECHNOLOGY TRANSFER

BALANCE SHEET AS AT 31st MARCH, 2012

	SCHEDULE No.	Rs	31.03.2012 Rs	Rs	31.03.2011 Rs
SOURCES OF FUNDS Corpus Funds Seed Money			16,200,000		16,200,000
Seed Moriey			16,200,000		16,200,000
Reserves and Surplus	1		91,079,657		74,812,044
Research and Dev. Fund	2		56,303,969		43,343,299
			163,583,626		134,355,343
APPLICATION OF FUNDS Fixed Assets	3				
(A) Gross Block (B) Less: Depreciation (C) Net Block		19,119,671 5,417,135	13,702,536	17,555,058 5,283,567	12,271,491
Investments	4		230,350,000		232,850,000
Current Assets Loans & Advances	5	63,074,137		11,074,996	
Less: Current Liabilities	6	143,543,047		121,841,144	
Net Current Assets			(80,468,910)		110,766,148)
			163,583,626		134,355,343
Notes on Accounts	11				

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As per our attached Report of even date

Sd/- Sd/Pankaj Agarwal K K Roy
Partner (Manager Administration)

The schedule referred to above form an integral part of the accounts.

Sd/-Anil Wali (Managing Director)

M. No. 086877 FRN: 04186N

For Foundation for Innovation and Technology Transfer

Sd/for NEERAJ AGRAWAL & CO. Chartered Accountants

Place: New Delhi Date: 04.09.2012

# FOUNDATION FOR INNOVATION AND TECHNOLOGY TRANSFER

# INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2012

PARTICULARS	SCHEDULE No.	31.03.2012 Rs	31.03.2011 Rs
INCOME			
Interest	7	20,057,127	16,643,411
Project & Technology Transfer	8	7,030,272	5,922,070
Corporate Membership Fee		466,430	571,187
Other Income		226,970	192,578
		27,780,799	23,329,246
EXPENDITURE			
Establishment Expenses		9,760,376	8,298,442
Patent & Copyright		12,899	10,864
Information Support Service		162,280	212,370
Administrative Expenses	9	1,319,687	1,357,445
Research & Devt. Expenses	10	84,376	200,614
Award/Scholarship		40,000	40,000
Depreciation		133,568	183,831
		11,513,186	10,303,566
Excess of Income over Expenditure		16,267,613	13,025,680
Notes on Accounts	11		
This schedule referred to above form an	integral part of the acc	counts	

Foundation for Innovation and Technology Transfer Annual Report 2011–2012

As per our attached Report of even date

Sd/-Pankaj Agarwal Partner

M. No. 086877 FRN: 04186N Sd/-K K Roy (Manager Administration) Sd/-Anil Wali (Managing Director)

For Foundation for Innovation and Technology Transfer

Sd/-

for NEERAJ AGRAWAL & CO. Chartered Accountants

Place: New Delhi Date: 04.09.2012

PARTICULARS		31.03.2012		31.03.2011
		Rs		Rs
1 Reserves & Surplus				
Capital Reserves		2,555,812		2,555,812
General Reserves		72,256,232		59,230,552
Excess of Income over Expenditure		16,267,613		13,025,680
		91,079,657		74,812,044
2 Research & Development Funds				
FITT Project Promotion Fund				
Opening Balance	11,313,296		10,802,898	
Add: Additions During the Year	360,564		510,398	
	11,673,860		11,313,296	
Less: Utilised During the Year	174,300	11,499,560	-	11,313,296
FITT Consultant Fund				
Opening Balance	11,409,793		11,133,898	
Add : Additions During the Year	3,299,098		2,083,613	
	14,708,891		13,217,511	
Less: Utilised During the Year	2,273,703	12,435,188	1,807,718	11,409,793
FITT Department Development Fund				
Opening Balance	9,503,333		8,156,116	
Add : Additions During the Year	4,358,289		3,025,951	
	13,861,622		11,182,067	
Less: Utilised During the Year	1,685,616	12,176,006	1,678,734	9,503,333
Central Administrative Fund				
Opening Balance	1,080		96,090	
Add: Additions During the Year	787,029		645,708	
	788,109		741,798	
Less: Utilised During the Year	750,159	37,950	740,718	1,080
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
FITT Administrative Funds				
Opening Balance	461,987		34,892	
Add : Additions During the Year	441,647		427,095	
	903,634		461,987	
Less: Utilised During the Year	6,800	896,834	-	461,987

TBIU - Tlide Funds				
Opening Balance	1,053,854		3,110,464	
Add: Additions During the Year	11,521,328		-	
	12,575,182		3,110,464	
Less : Utilised During the Year	6,859,419	5,715,763	2,056,610	1,053,854
TIDE - Funds (Interest on Seed Loan)				
Opening Balance	-		-	
Add: Additions During the Year	62,807		-	
	62,807			
Less : Utilised During the Year	-	62,807	-	-

PARTICULARS		31.03.2012 Rs		31.03.2011 Rs
TBIU - MCIT FUNDS Opening Balance Add : Additions During the Year	592,584 389,391		262,788 329,796	
Less : Utilised During the Year	981,975 -	981,975	592,584 -	592,584
TIDE FUNDS – LOAN ACCOUNT Opening Balance Add : Additions During the Year	867,000 5,497,900		- 1,867,000	
Less : Utilised During the Year	6,364,900 5,255,000	1,109,900	1,867,000 1,000,000	867,000
TBIU - FUNDS (INTEREST ON SEED LOAN) Opening Balance Add : Additions During the Year	191,868 60,197		181,080 10,788	
Less : Utilised During the Year	252,065 -	252,065	191,868 -	191,868
TBIU - FUNDS (3% ROYALTY) Opening Balance Add : Additions During the Year	1,510,164 34,588		1,082,381 427,783	
Less : Utilised During the Year	1,544,752 -	1,544,752	1,510,164 -	1,510,164
TBIU - FUNDS (MAINTENANCE CHARGES) Opening Balance Add : Additions During the Year	640,373 -		640,373 -	
Less : Utilised During the Year	640,373 -	640,373	640,373 -	640,373
TBIU - FUNDS (LOAN ACCOUNT) Opening Balance Add : Additions During the Year	2,677,288 -		2,677,288 -	
Less : Utilised During the Year	2,677,288 -	2,677,288	2,677,288 -	2,677,288
MSME - INNOVATOR'S CONTRIBUTION Opening Balance Add : Additions During the Year	20,500		- 20,500	
Less : Utilised During the Year	20,500 20,500	-	20,500 -	20,500

BIU - SYNERGY - SECURITY DEPOSIT Opening Balance Add : Additions During the Year	100,000 10,000		- 100,000	
Less : Utilised During the Year	110,000	110,000	100,000 -	100,000
TBIU - FUNDS (SHARES BUY-BACK / DEFERRED LOAN) Opening Balance Add : Additions During the Year	2,906,179 278,035		2,545,929 360,250	
Less : Utilised During the Year	3,184,214	3,184,214	2,906,179 -	2,906,179
TDB - FUNDS Opening Balance Add : Additions During the Year	- 4,085,294		:	
Less : Utilised During the Year	4,085,294 1,200,000	2,885,294	-	_
		56,303,969		43,343,299

3:	3: FIXED ASSETS										
S.No.	. Asset	Rate		Gross Block	Block			Depreciation		Net	Net Block
			As on 31.03.2012	Additions in 2011-2012	Reduction in 2011-12	Total	Upto 1.4.2011	For the Year	Total	As on 31.3.2012	As on 31.3.2011
-	Computers	%09	2,209,887	1	•	2,209,887	2,168,890	24,598	2,193,488	16,399	40,997
2	Furniture & Fixtures	10%	1,568,586	1	•	1,568,586	1,250,405	31,818	1,282,223	286,363	318,181
က	Air Conditioners	15%	443,970	ı		443,970	376,470	10,125	386,595	57,375	67,500
4	Photocopier	15%	203,175	1		203,175	197,467	856	198,323	4,852	5,708
2	Projector	15%	22,960	1		22,960	22,678	42	22,720	240	282
9	Office Equipments	15%	972,037	15,509	1	987,546	785,479	29,147	814,626	172,920	186,558
7	HП Exten. Office	10%	232,000	1		232,000	131,297	10,070	141,367	60,633	100,703
ω	TBIU office Module	10%	620,000	ı		620,000	350,881	26,912	377,793	242,207	269,119
6	TBIU – Synergy Bldg.	%0	11,282,443	1,549,104		12,831,547	•	•	•	12,831,547	11,282,443
	TOTAL		17,555,058	1,564,613	1	19,119,671	5,283,567	133,568	5,417,135	13,702,536	12,271,491

PARTICULARS		31.03.2012 Rs		31.03.2011 Rs
4 INVESTMENTS Deposits with Scheduled Bank RBI Bonds		230,350,000		220,350,000 12,500,000
		230,350,000		232,850,000
5 CURRENT ASSETS, LOANS AND ADVANCES BALANCE WITH SCHEDULED BANK Canara Bank SBI SBI FCRA Account SBI - DBT Tax Deducted at Source Development Support Security Deposit Staff Advance		43,015,597 3,898,585 4,139,415 2,885,294 8,744,184 58,835 4,087 328,140		586,193 514,824 1,391,215 - 8,487,629 42,702 4,087 48,346
		63,074,137		11,074,996
6: CURRENT LIABILITIES OPENING BALANCE Projects on Hold Ongoing Projects  Add: Receipts During the Year	5,556,114 116,285,030 195,479,306		5,556,114 121,769,948 161,961,580	
	317,320,450		289,287,642	
Less: Increase in Project Advance	657,894		1,825,230	
Less : Utilised During the Year	173,119,509		165,621,268	
CLOSING BALANCE Projects on Hold Ongoing Projects		5,556,114 137,986,933		5,556,114 116,285,030
		143,543,047		121,841,144

7 INTEREST Interest on Banks Deposits/Bonds Interest on Saving Account	19,310,445 746,682	16,157,963 485,448
	20,057,127	16,643,411
8 PROJECT & CONSULTANCY INCOME FITT Overhead Charges from Projects Seminar/Workshops/HED Programs Royality Income	4,976,842 1,712,933 340,497	4,392,817 1,237,777 291,476
	7,030,272	5,922,070
9 ADMINISTRATIVE EXPENSES Communication Professional fees Books and Periodicals Printing and Stationery Conveyance Seminar and Meeting Expenses Travelling Expenses Contingent Expenses Repair and Maintenance Audit fees Office Rent Membership and Subscription Bank Charges Electricity Charges Recruitment Expenses	120,033 145,000 2,625 26,841 83,795 30,953 3,340 63,860 49,081 30,000 526,848 12,450 15,732 177,520 31,609	129,880 115,000 3,404 20,610 3,925 28,679 108,838 127,996 94,838 - 526,848 12,000 11,543 173,884 -
10 RESEARCH & DEV. EXPENSES  Development Support  TBIU Account	72,910 11,466	- 200,614
	84,376	200,614

### 11. NOTES ON ACCOUNTS

### 1. SIGNIFICANT ACCOUNTING POLICIES

Accounting Convention

The Financial Statements are prepared under the Historical Cost Convention.

Method of Accounting

All accounts are maintained on cash basis. Interest income on deposit/loan is accounted for on receipt basis consistently.

iii) 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.

iv) Revenue Recognition

Income on projects undertaken is recognized on the completion of the project.

Income from Consultancy, Seminars, Retainerships etc. is recognised on rendering of the service and receipt of the fees.

Investments

Investments are valued at cost. Interest/TDS are accounted for on receipt basis.

- 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".
- The foundation spent a sum of Rs.16,48,949/- during the current year, charged to Research & Development Expenses (Rs.84,376/-) and Fixed Assets (Rs.15,64,613/-), out of the funds accumulated as per resolution No. 27/GC-31/2008 dated 12.09.2008 for Rs. 70,77,020/-, in terms of the provisions of the Income Tax Act, 1961.
- Previous year's figures have been regrouped/reclassified wherever considered necessary to make them comparable with those of the current year.

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Foundation for Innovation As per our attached Report of even date

Sd/-Sd/-Sd/-Pankaj Agarwal K K Roy Anil Wali Partner (Manager Administration) (Managing Director)

M. No. 086877 FRN: 04186N

For Foundation for Innovation and Technology Transfer

Sd/-

for NEERAJ AGRAWAL & CO. Chartered Accountants

Place: New Delhi Date: 04.09.2012

# GLIMPSES OF OUR INTERACTIONS





# Foundation for Innovation and Technology Transfer Indian Institute of Technology, Delhi

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