

ANNUAL REPORT

2011 - 12



**TECHNOLOGY INFORMATION, FORECASTING &
ASSESSMENT COUNCIL (TIFAC)
(Department of Science & Technology)**

A-Wing, Vishwakarma Bhavan, Shaheed Jeet Singh Marg, New Delhi-110016
www.tifac.org.in



CONTENTS

	Page No
<i>Executive Summary</i>	5
1. Foresight and Assessment Activities	7
2. Innovation Support Programmes	10
3. Technology Development Programmes	17
4. Umbrella Scheme On Technology Vision 2020 Projects in Mission Mode (TV 2020)	18
5. International Cooperation	38
6. Human Resources and Infrastructure Development	41
7. National Mission on Bamboo Applications	43
8. Mission for Geospatial Applications	46
<i>Auditor's Report Together With Audited Statement of Accounts</i>	50



The Governing Council

CHAIRMAN

Dr. Anil Kakodkar

Department of Atomic Energy – Homi Bhabha Chair Professor

MEMBERS

Dr. T Ramasami

Secretary, Department of Science and Technology

Smt Sudha Pillai

Member Secretary, Planning Commission,

Dr. Samir K. Brahmachari

Director General, CSIR & Secretary, DSIR

Shri R Chandrashekhar

Secretary, Department of Information Technology

Dr. Maharaj Krishan Bhan

Secretary, Department of Biotechnology

Shri R.P. Singh

Secretary, Min. of Commerce & Industry,

Dr. V. K. Saraswat

SA to RM & Secretary, Defence Research & Development Organization

Shri R. Gopalan

Secretary, Ministry of Finance, Dept. of Economic Affairs,

Dr. S. Aayappan

Director General (ICAR) & Secretary (DARE),

Dr. H Santhanam

Vice President (CMEP), Mahindra & Mahindra

Professor Sivaji Raha

Director, Bose Institute

Professor Dinesh Singh

Vice Chancellor, University of Delhi,

Dr. Vineeta Bal

Senior Scientist, National Institute of Immunology,

Dr. Deepak Puri

Chairman & Managing Director, Moser Baer India Ltd,

Professor Samir Barua

Director, Indian Institute of Management, Ahmedabad

Member Secretary

Executive Director, TIFAC



EXECUTIVE SUMMARY

The Technology Information, Forecasting & Assessment Council (TIFAC), an autonomous society set up under the Department of Science & Technology in 1988, is mandated to assess the state-of-the-art technology and set directions for future technological development in India in socio-economic sectors important to our Country. This year TIFAC completed 24 years of its existence, a period during which, besides providing Technology Vision and Technology Foresight, TIFAC was instrumental in catalyzing technology push in a wide range of sectors. Leveraging its networking capabilities, many useful technology missions and technology development support programs and projects were executed.

The year 2011-12 was of considerable churning within TIFAC with regard to the activities and programs being prioritized for implementation. This was needed to consolidate earlier efforts by TIFAC and appropriately reorient the activities to effectively play the TIFAC's originally conceived role as a Think Tank unit and to set the agenda for future technological directions. TIFAC's original mandate is much bigger and more important and nationally relevant than the current scheme of things of TIFAC. Further, there is no other organization currently performing such functions. Thus a conscious decision was taken to move the functions of TIFAC predominantly to its mandate of being a national Technology Foresight Body. Accordingly new activities are being initiated. Ongoing projects under other programs having predominantly executive functions are being pursued to completion. Highlights of activities in the year gone by are encapsulated below.

Technology Vision 2035 exercise: As a sequel to the Technology Vision 2020 exercise carried out by TIFAC and released in 1996, TIFAC now is on course of preparing **Technology Vision 2035** for India, a document to inspire and prompt stakeholders across the spectrum, including the S&T community, to chart R&D and technological trajectory. A broad based inclusive and consultative approach, rooted in the aspirations of people of India and blended with speculations of the game-changing or disruptive technologies to the extent visualized is being followed for this exercise. The document is expected to be a guiding spirit for the national S&T pursuits and investments in the decades ahead.

Foresight & Assessment Activities: TIFAC is now majorly taking up this activity in priority areas/ sectors. As a part of this activity, a major study to assess the manpower needs for Science & Technology (S&T) in India as well as project the future S&T manpower scenario for the period 2012-17 and beyond, in different disciplines has been completed. The outcome of the study will be used as an input to S&T Division of Planning Commission. A study to correlate the GDP growth and possible technology causes, if any, in select districts of few Indian States is ongoing. A new study for



assessing solar thermal technologies was launched and a Committee constituted for the purpose is in the process of drawing up scope and coverage of the study. Several other topics are being prioritized, in consultation with the different stakeholders, towards commissioning studies. It is expected that several such studies would be taken up.

SIDBI Revolving Fund for Technology Innovation Programme (SRIJAN): TIFAC had set up a Revolving Fund with Small Industries Development Bank of India (SIDBI) to support innovative technologies particularly from MSMEs for scaling up / commercialization to assess and establish the techno-economic viabilities of commercially unproven technologies. This would encourage and promote innovation capabilities and bring high-risk technology innovations to the market in emerging technology areas for opening up new business opportunities. A couple of ongoing projects under this include 'Development and commercialization of biodegradable soluble cut /coolant oil' and 'RFID tags for solar PV module tracking', while four new projects were taken up during this year. Efforts are being made for wider spread of the Program.

MSME upgradation: Under the program, towards providing R&D support to MSME clusters, TIFAC has been actively promoting industry and academia interaction. Five studies being carried by academia focused on clusters of Sewing machine - Ludhiana, Bicycle parts cluster- Ludhiana, Mini gas cylinder- Meerut, Voltage stabilizer cluster- Meerut and Electronics cluster -Mohali, were completed. The studies have designed technological intervention plan for the respective cluster. Draft reports of five other clusters were in the process of finalizing. R&D Centres established for the clusters of Howrah Foundry and Baruipur Surgical Instruments continued to provide crucial support.

Bio-Products & Bio-processes: Under this sector, a project for efficient utilization of jatropha seed cake by detoxification and a project for **developing biotransformation process for synthesis of chirally pure compounds** were completed. A couple of new projects were also taken up. The Centre for Biofuels at National Institute for Interdisciplinary Science & Technology (NIIST), Thiruvananthapuram was established.

Patent Facilitating Centre (PFC) continued to create awareness about intellectual property rights in the country and support educational institutions in protecting their inventive works. Patents were continued to be filed from academic institutions. More than 500 cases for possible patentability of student projects, exhibited by different schools nationwide during INSPIRE Exhibition organized by DST in August 2011 at New Delhi, was examined by PFC.

International Cooperation: Under the 'India-IIASA Programme' with International Institute for Applied Systems Analysis (IIASA), an independent non-governmental interdisciplinary research institution headquartered in Austria, collaborative research projects among scientists from Indian



S&T organizations / academic institutions with IIASA researchers in the areas on mutual interests were undertaken. Under this, a study on ‘Indian Perspectives on Global Energy Scenarios Till 2050’ was completed. The study identifies India’s energy mix in long term (2050), expected future energy technologies and investments in the context of climate change. A new study on ‘Analyzing Forest Carbon Accounts for Sustainable Policy Options’ was also initiated.

TIFAC volunteered for hosting a ‘Climate Technology Centre’ (CTC) and Network (CTCN) against an international call for proposals issued by the United Nations Framework Convention on Climate Change (UNFCCC), Bonn, early in 2012. The proposal was developed and submitted within a short span of time, elucidating how the past multi-discipline and multi-stakeholder networking efforts of TIFAC could be leveraged to effectively implement CTC and CTCN.

With the past expertise of carrying out studies and leveraging an ever expanding network of experts, TIFAC is looking forward in the coming year to play a major role in technology foresight and technology assessment in the context of planned national development and providing technology information towards defining requirements and prioritization of areas for research and technology development.

(Anil Kakodkar)

Chairman TIFAC Governing Council



Annual Report- वार्षिक रिपोर्ट
2011 - 2012

1

Foresight and Assessment Activities

1.1 Technology Vision 2035 & Foresight

In 1996, TIFAC brought out the Technology Vision 2020 document, under the leadership of Dr A P J Abdul Kalam. It was a first of its kind of document. Fifteen years down the line, TIFAC is now preparing the **Technology Vision 2035** for the nation. The document is expected to prioritize and help in fine-tuning the S&T pursuits and investments in the decades ahead. The document would essentially be a Vision that can inspire and prompt stakeholders across the spectrum, including the S&T community, to chart trajectories through their subjective interpretation. A consultative approach, rooted in the aspirations of people of India blended with their speculations of the game-changing or disruptive technologies to the extent visualized is being followed for this exercise.

The nation-wide exercise started-off with a brainstorming meet on 'S&T perspectives for changing India' on January 25, 2011 in TIFAC. Swaran Jayanti Fellowship recipients, Shanti Swarup Bhatnagar awardees and other distinguished S&T leaders from across India, brainstormed in the domain of Life Sciences, Medical Sciences, Chemical Sciences and Engineering & Physical Sciences. Subsequently, the approach was fine tuned over several deliberations. In order to broad-base the exercise and make it inclusive, meetings were planned on the theme 'S&T perspectives for changing India' in various regions of the country.

First regional meeting was conducted in Jammu University on April 8-9, 2011. Around 40-50 experts from the states of Chandigarh, Delhi, Haryana, Himachal Pradesh, J&K and Punjab participated in the meeting, covering the broad areas of Medical/ Health Care System, Nanotechnology, Agriculture, Water & Irrigation, Energy and Education System. Second meeting was conducted in IT-BHU, Varanasi in two phases- a preliminary meeting on April 13, 2011 and the main brainstorming session on May 20, 2011. Around 40-50 experts from the states of Bihar, Uttarakhand and Uttar Pradesh participated in the meeting, covering Environment, Energy and Fuels, Agricultural Products and Processes, Life Science, Health Technologies, Materials Science & Composites, Infrastructure, Information & Communication Technology and Integrated Systems & Mechatronics.

Third meeting in the series was conducted in Bose Institute Kolkata on June 6-7 2011. Around 30-35 experts from the states of Assam, Jharkhand, Meghalaya, Odisha, and West Bengal discussed issues and challenges in broad areas of Affordable Health Care, Food and Nutritional Security, Nanotechnology, Energy Security & Green Mining. Fourth meeting was conducted in IIT. Bombay on July 30, 2011. Around 40-45 experts from the states of Maharashtra and Karnataka deliberated over a range of areas covering Medical & Healthcare, Life sciences, Manufacturing & Materials, Infrastructure, Transport, Housing, Education, Governance, Services, Energy, Environment, Water & Agriculture, Forestry,



Rural economy etc. Such brain storming meetings have also been planned in North-East and Central parts of India.

These meetings, while aiming at capturing regional potentials, aspirations, disparities & challenges, would seek suggestions to make the exercise as comprehensive as possible. The meetings also sought to identify experts for carrying out the exercise. Further to make the exercise inclusive, inputs from a wider cross-section of stake-holders would be taken - including the youth who will be at the center-stage of economy and developmental process around 2035.

Regional meetings led to identification of following thematic areas for further deliberations with a bigger set of domain experts:

1. Educational Technologies
2. Energy Technologies
3. Environmental Technologies
4. Food and Agriculture
5. Global change issues
6. Information & Communication Technologies
7. Infrastructure Technologies
8. Materials & Manufacturing Technologies
9. Medical science & Health Care
10. Transportation Technologies
11. Water Technologies

Separate brainstorming meetings were organized by TIFAC in each of the thematic areas to capture the views of experts and various stake-holders in the respective areas. As a step

forward, Advisory Committees comprising of experts were constituted to guide preparation of roadmaps/ scenario reports for each area. Nine such Committees were in place which had 15 meetings in all, providing direction and momentum to the exercise. Subsequently, National Apex Committee chaired by Dr. Anil Kakodkar, Chairman TIFAC, and comprising of the Chairpersons of all Advisory Committees, select social scientists, economists, S&T leaders, etc. as members was constituted. This Committee will guide synthesis of **Technology Vision 2035**.

Once the scenarios in different thematic areas are drawn, cross-cutting areas will also be looked into and their scenarios/ technologies be covered in the Vision document. The Vision document will also focus on implementation strategies and also capture blue sky research areas. The Committee met on February 21, 2012 to review the progress under the exercise and among other things suggested ways to make it inclusive. Accordingly, feedback through structured questionnaires and having a student section are being given prominence.

With a view to get insights on likely changes and expectations from ICT where changes are too rapid as compared to other areas, sessions exclusively with students were conducted in the following places:

- Tata Consultancy Services (TCS), Bangalore on December 17, 2011.
- Fergusson College, Pune on January 6, 2012.
- Amity University, Noida on January 17, 2012.
- TCS Thiruvananthapuram on February 3, 2012.

Each of the meetings was attended by 30-40 young students/ trainees having diverse background of including Humanities. More such interactions with youth would be conducted as a part of the exercise.

Over the coming year, it is planned to come out with the sectoral scenarios/ roadmaps and based on them evolve the **Technology Vision 2035** document.

inputs to R&D institutions, academia and government.

The progress of activities during the period is given below:

Ongoing Studies:

Packaging Technology Study Series

Implementing Agency: SIES School of Packaging, Navi Mumbai, Consultants S. Ambrish Bhargava,



1.2 TIFAC Studies & Reports

TIFAC has been bringing out reports with a view to examine technology options for India in a fast changing economic environment that assess the status and needs of a wide spectrum of technology sectors, The reports intend to review the technology status in India vis-à-vis global trends and assess market potential as well as technological aspects. They provide valuable

Value added reports on ‘Packaging of Pharmaceuticals’, ‘Fresh and processed foods’, ‘Non perishables’, ‘Chemicals and Display and Promotional packaging’ are being pursued towards completion.

Pesticide Encyclopaedia

Implementing Agency: Janana Prabodhini , Pune with Dr Vasant Gowariker as the Chief Editor.



The final entries for the document been received

Series of Studies on Determinants and Impact of FDI in R&D Sector

i) Centre for Global or local for Global? An examination of FDI in R&D Centres of IT MNEs in India.

Principal investigator: Dr. V Illavaresan, IIT Delhi, New Delhi

The final report for the study has been received and is under review,

ii) Impact of FDI in R&D on Indian Production and R&D Systems

Principal investigator: Dr. M Natesa, NISTADS, New Delhi

The final report for the study has been received and is under review.

iii) Determinants and Impact of FDI in R&D in Creation and Diffusion of Knowledge in Automobile Industry

Principal investigator: Dr. Satyaki Roy, Institute for Studies in Industrial Development, New Delhi

The draft report for the study has been received and is under review.

1.3 TIFAC Specialized Studies

Indian Chemical Industry – Technology Imperatives & Business Opportunities

Considering the importance of the sector, a specialized study titled ‘Indian Chemical Industry - Technology Imperatives & Business Opportunities’ was commissioned by TIFAC jointly with the Indian Chemical Council (ICC), Mumbai [the erstwhile Indian Chemical Manufacturers’ Association, (ICMA)]. The study would identify and address the technology gaps

in Indian chemical industry in order to catch up with the global trends, identify economically attractive routes of inducting cutting edge technologies, to make India global R&D destination, strengthen the industry-academia linkages, etc. The study encompasses three sub-sectors of chemical industry namely, speciality chemicals, knowledge chemicals & basic chemicals.

The study on knowledge chemicals covering the objectives and scope has been completed. The study gives good coverage of the business opportunities, global technology trends and total market size of pharmaceutical, industrial biotechnology & agrochemical industry in India. The study has revealed that the emerging global trends offer significant business opportunities for Indian knowledge chemical industry. This includes the area of generic drugs, expiration of patents on key ‘blockbuster’ drugs to enable India produce off-patent drugs, novel drug delivery systems (NDDS), biopharmaceutical therapeutics, herbal medicines based on products available in India, etc. As a part of the study, R&D capabilities of the Indian industry were also analyzed vis-a-vis the other countries on various parameters including R&D expenditure of Indian companies, major areas of research, infrastructure available for R&D, technologies used and human resource related aspects.

The report was released on February 10, 2011. The study on basic and speciality chemicals is expected to complete by June 2012.

Manpower Needs Assessment for Science and Technology in India:

This major study was taken up at the behest of the Planning Commission. The objective was to assess the manpower needs for Science &



Technology (S&T) in India as well as project the future S&T manpower scenario for the period 2012-17 and beyond, in different disciplines. The study was completed based on secondary data and the final report mainly covers the followings:

- Estimation of Supply side numbers of S&T area (Natural Sciences, Engineering, Medicine, Agriculture & Veterinary)
- Projection of future S&T manpower in Academia, Industry, Health & Government Sector for 2012, 2017 and 2022.
- Different scenarios for the projection of manpower in R&D in next 10 years.

The report has been forwarded to the Planning Commission

1.4 Integrated Technology Assessment Programme (iTAP):

Ongoing Studies:

Correlation of GDP growth and technology causes, if any, in select districts of few Indian States

A brainstorming meeting of economic experts was conducted to discuss about the scope and methodology, time frame and organizations to take up the study.

District Domestic Product (DDP) data from Assam and Andhra Pradesh was collected and analyzed for growth of different sectors such as agriculture, industry and services. Further, to guide and steer the study, a Steering Review & Monitoring Committee (SRMC) has been constituted and it has decided to start the study in Andhra Pradesh.

Assessment of Solar Thermal Technologies

A Steering Review & Monitoring Committee (SRMC) constituted for this study has deliberated extensively and come up with scope & coverage of the study.

1.5 TIFAC Information Interfaces:

The Information Management Cell (IMC) continued maintaining the following websites:

- TIFAC Website (<http://www.tifac.org.in>)
- Mission REACH (<http://www.missionreach.org.in>)

The websites served as interfaces for servicing queries received by some users. The TIFAC site was visited by more than 4 lakh users. About 600 queries pertaining to various technology areas were received and serviced through the web-mail.



2 Innovation Support Programmes

2.1 Patent Facilitating Centre (PFC)

PFC has been moving on to the path of providing patent related support to Indian scientists and technologists ever since it was set-up under TIFAC in 1995. Established with the motto of “May I help you”, PFC has now positioned itself in the Indian scenario as a centre of repute engaged in creating awareness about Intellectual Property Rights (IPR) in the country, gearing up scientists and technologists in protecting their inventive work, proliferating the IPR culture to the States, evolving policies at the national level, providing technical input to the government on IPR related issues, interacting and supporting other government departments in protecting their innovations and keeping a watch on developments in the area of IPR.

Fostering PFC Activities & Programmes

Secretary, DST constituted a Think Tank Committee (TTC) for PFC to actively play constructive and progressive roles to foster activities and programmes of PFC. TTC in its 1st meeting held on 6th June, 2011 reviewed the activities of PFC and while appreciating the extremely good work being carried out, also recommended to continue, support and further strengthen all current activities.

In its 2nd meeting held on 8th Dec, 2011, TTC

recommended PFC to mount a new mission to meet new challenges & requirements of IP Sector, apart from taking up broad new initiatives / activities like – IP studies, research & analysis etc. The recommendations of TTC are being pursued by PFC to initiate new activities & programmes. In order to regularly review, steer & monitor PFC activities, a PFC Steering Committee has been constituted for executing & implementing the recommendations of TTC.

IP Facilitation

PFC has a mechanism to extend full technical and financial support to R&D institutes, universities, educational institutions and schools in protecting their inventions in India and abroad. These institutions do not have the necessary financial resources and expertise to carry out this work. PFC’s intervention has proved very helpful for the Indian inventors in universities, R&D institutes and educational institutions.

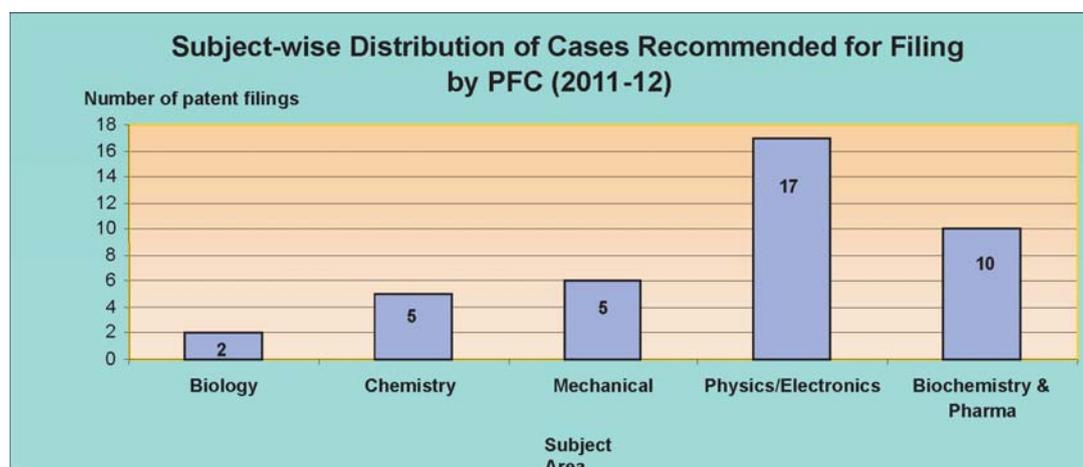
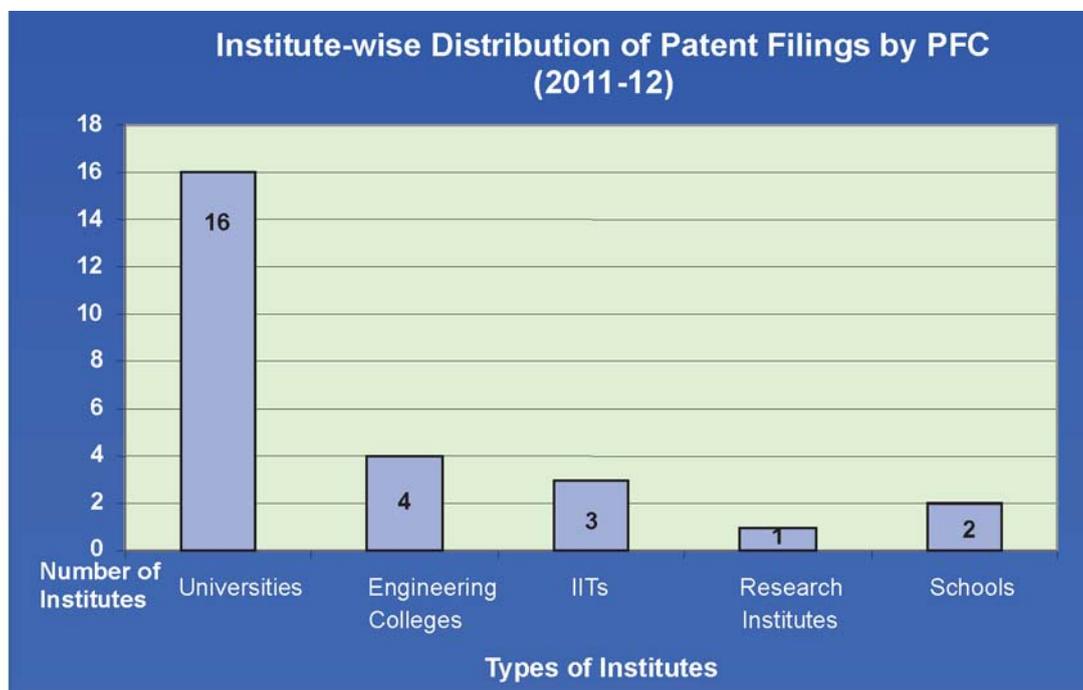
A Committee on IP Facilitation (CIPF) has been constituted to evaluate and recommend national and international IP filing requests received by PFC from various universities, educational & research institutions and government agencies. During the four meetings held in this period, more than 87 requests were evaluated & reviewed; out of which, 39 cases were recommended for patent filing which includes 6 PCT applications.

The 39 patents are filed in the name of the following institutes:

Sl. No.	Institute	Subject Area (No. of Applications)
1.	Panjab University, Chandigarh	Biochemistry (5) and Chemistry
2.	M D University, Rohtak	Biochemistry
3.	Manipur University, Imphal	Biochemistry
4.	University of Lucknow, Lucknow	Biochemistry
5.	University College, Thiruvananthapuram	Biochemistry
6.	Pondicherry University, Pondicherry	Biology
7.	University of Allahabad, Allahabad	Biology
8.	University of Rajasthan, Jaipur	Chemistry
9.	Himachal Pradesh University, Shimla	Chemistry
10.	Banaras Hindu University, Varanasi	Chemistry
11.	Forest Research Institute (FRI), Dehradun	Chemistry (Herbal Products)
12.	DIPSAR, New Delhi	Pharma.
13.	IIT, Guwahati	Mechanical
14.	Amal Jyoti College of Engineering, Kottayam	Mechanical
15.	Malaviya National Institute of Technology (MNIT), Jaipur	Mechanical
16.	University of Petroleum and Energy Studies (UPES), Dehradun	Mechanical
17.	IIT, Kharagpur	Physics/Electronics (7) and Mechanical
18.	IIT, Delhi	Physics/Electronics (2)
19.	Cochin University of Science & Technology, Cochin	Physics/Electronics
20.	Kendriya Vidyalya Sangathan (KVS), New Delhi	Physics/Electronics
21.	Dayalbagh Educational Institute (Deemed University), Agra	Physics/Electronics
22.	Thangal Kunju Musaliar (TKM) College of Engineering, Kollam	Physics/Electronics
23.	Govt. High School, Mehtan, Punjab	Physics/Electronics
24.	Anna University of Technology, Chennai	Physics/Electronics
25.	National Institute of Technology (NIT), Tiruchirappalli	Physics/Electronics
26.	Presidency College, Kolkata	Physics/Electronics



The following graphs show the institute wise and subject wise distribution of the patent filing requests received:



Supporting IP Facilitation of INSPIRE Projects

PFC examined more than 500 cases for possible patentability of project exhibits under INSPIRE Programme of DST, where students from different schools from almost all states participated during INSPIRE Exhibition

organized by DST in August 2011 at New Delhi. Out of these, about 60 concepts/ideas are being evaluated further for scope of protecting of IP. This protection is possible due to INSPIRE being a govt. approved exhibition and provision of grace period of one year in such cases is allowed.

Awareness Creation

During the period, PFC conducted fourteen (14) Patent/IPR awareness workshops in various states sensitizing about 2000 scientists and technologists. The list of the workshops conducted is given below :

S. No.	University / Institute	Date
1	Arid Forest Research Institute (AFRI), Jodhpur, Rajasthan	May 25, 2011
2	Govt. P.G.College, Lohaghat, Uttarakhand	July 4, 2011
3	Kumaun University, Bhimtal Campus, Uttarakhand	July 6, 2011
4	Guru Jambheshwar University, Hissar, Haryana	August 9, 2011
5	Choudhary Devi Lal University, Sirsa, Haryana	August 10, 2011
6	MNIT, Jaipur, Rajasthan	August 19, 2011
7	NIT, Hamirpur, Himachal Pradesh	October 15, 2011
8	Govt P G College, Uttarkashi, Uttarakhand	November 24, 2011
9	HNB Garhwal University, TEHRI Campus, Uttarakhand	November 26, 2011
10	Indo-Global College of Engineering, Abhipur, Punjab	December 14, 2011
11	GSSDGS Khalsa College, Patiala, Punjab	January 27, 2012
12	Manipal Institute of Management, Manipal, Karnataka	February 17-18, 2012
13	Government P G College, Karnaprayag, Uttarakhand	March 27, 2012
14	HNB Gharwal University, Srinagar, Uttarakhand	March 28, 2012

Training Programmes on “IPR and WTO Issues”

DST had entrusted the responsibility of conducting two national training programmes in this financial year on “IPR and WTO issues” for the scientists under its ‘National Programme for Training of Scientists and Technologists’. The first one was organized from August 22-26, 2011 at TERI Retreat, Gurgaon. It was attended by 31 scientists from various scientific organizations. The second programme on the same topic was organized from January 9-13, 2012 at B.A.R.C. (D.A.E.), at Mumbai and was attended by 30 scientists from various S&T and R&D institutions.



Dr. Anil Kakodkar, Chairman TIFAC, distributing certificates to the participants at the BARC Program



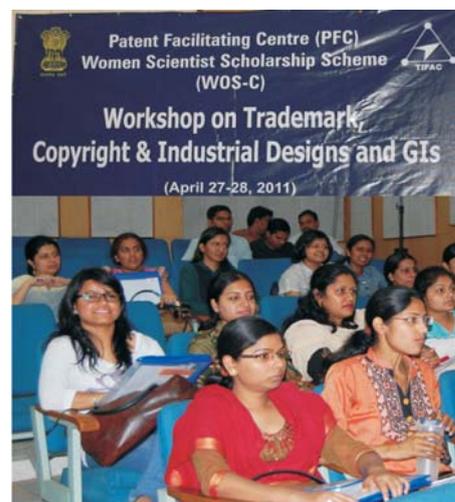
Women Scientist Scheme (WOS-C) : Training in IPR & related areas

Sixth Batch

The training for the sixth (6th) batch of women scientists was completed in May 2011. A total of 73 women were trained under the sixth batch at four centres viz., Delhi, Pune, Chennai and Kharagpur. Out of these, 13 women successfully cleared the Patent Agent Examination conducted by the Indian Patent Office for which they were given a reward money of Rs.10,000/-. A certificate was given to all the women scientists after completion of their training programme.

The following activities were undertaken during this period under the WOS-C programme:

- A one day IP Workshop was organized by URDIP, Pune on April 25, 2011 for the women scientists of the Pune centre.
- A workshop on Trademarks, Copyright, and Designs was held on April 27-28, 2011 at New Delhi for the women scientists candidates of Delhi and Kharagpur centre.
- The women scientists of the sixth batch have prepared 9 technology scan reports based on patent analysis. The titles of the project reports prepared are enlisted as below :



6th Batch Women Scientists attending the workshop

S. No.	Project	Prepared by
1	Landscaping of antimalarial drugs and compounds	Ms. Rounak Dubey
2	International Depositary Authorities and the deposit of microorganisms for the purposes of patent procedure	Ms. Deepika Singh
3	Molecular medicine and treatment of infertility—a patent analysis	Ms. Neeti Sahu
4	DNA sequencing technologies – a patent analysis	Ms. Divya Pandey
5	Culture media for microbes : bacteria, fungi & algae - a patent analysis	Dr. Rollie Verma
6	A patent landscaping of management of radioactive waste from nuclear power plants	Dr. Anshul Fuloria
7	Patent analysis of eco-friendly technologies for waste management and patented technologies donated to “eco-patent commons”	Ms. Anu Bala
8	Biosensors	Ms. Navneet Kaur
9	Patent analysis of herbal compositions used for the treatment of cancer, diabetes and asthma	Ms. Deepika Chabba

Seventh Batch

The selection process for the women scientists under the WOS-C Scheme for the seventh (7th) batch has started. A Steering & Advisory Committee for WOS-C was constituted by Secretary DST with Dr. B. Meena Kumari, DDG (Fisheries), ICAR as its Chairperson for overlooking the activities being undertaken under the WOS-C Scheme.

Based on the recommendations of the first meeting of this Committee, held in September 2011 at New Delhi, an all India advertisement was brought out in national newspapers inviting online applications for training 120 women scientists in IPR & related areas during the 7th batch. An online portal has been prepared by URDIP, CSIR (also one of the centres for operating women scientist scheme) for receiving applications online. About 5000 applications have been received for four centres. The short-listing of the applications is in the process.

2.2 Technology Refinement & Marketing Programme (TREMAPP)

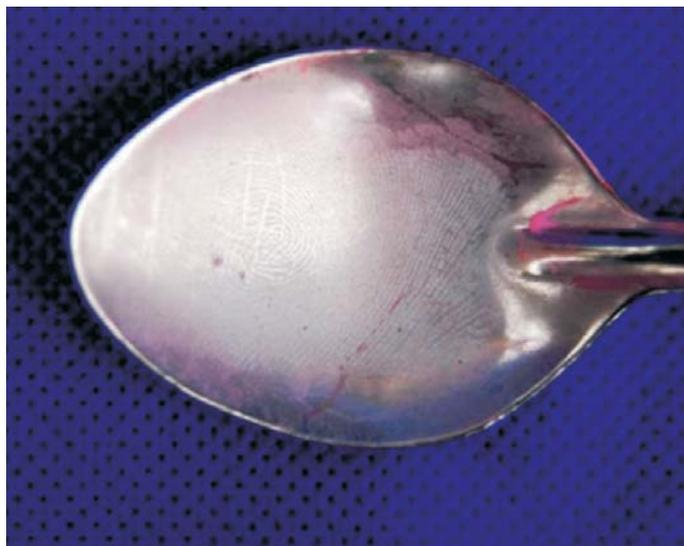
The objective of Technology Refinement and Marketing Programme (TREMAPP) is to push innovative products / prototypes up the commercialization cycle towards market through a network of Technology Commercialization Facilitator Agencies (TCFs).

Technology Transfer

A total of five technologies were transferred (agreement signed) to industry as given below, along with brief details of the technologies.

- 1) Novel Fluorescent Reagent
- 2) Side View Mirror Adjustment and Protection System
- 3) Low Energy Dental Medical Aspirator
- 4) Nimble Carpet Shearing Machine
- 5) Auto Wash Gear Roller Wall Mount Wet Grinder

Novel Fluorescent Reagent for Detecting Fingerprints



The technology is for detecting fingerprints at crime scenes in the event that the perpetrator of crime having tried to destroy and/or degrade the fingerprints by spilling water, dust, soil, etc. or when degradation due to external factors like rain, dust particles, etc. Currently available fingerprint detection methods and technologies tend to fail in such situations.

The technology has been transferred to M/s. Maruthi Scientific Investigation Products, Chennai.



Side View Mirror Adjustment & Protection System



The technology is for automatically adjustable side view mirror for the 4-wheeled automobiles. It aims to provide middle end automobiles with a cost effective option of the automatic side view mirror which can be controlled for horizontal and vertical adjustments from inside the vehicle. Special feature in the mirror includes very near object detection through a sensor and automatic closing of the mirror to prevent mirror damage due to collision while moving on narrow roads with heavy traffic.

The technology has been transferred to M/s. CNC Products, New Delhi.

Low Energy Dental / Medical Aspirator

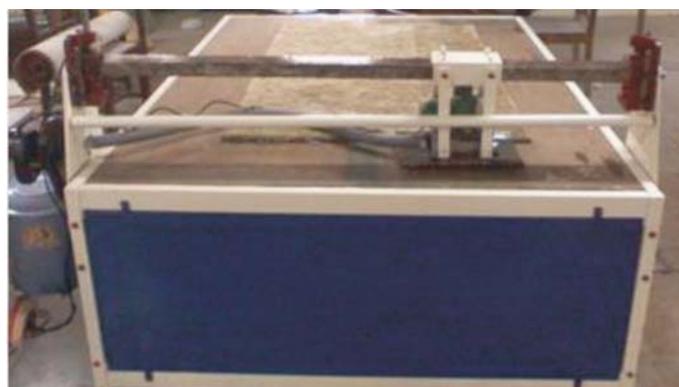
The technology is for creating suction pressure through commonly used submersible pump arrangement and through this suction pressure sucking unwanted liquid that are commonly



released at operating tables during dental/surgical operations.

The technology has been transferred to M/s. Mastel Medical Systems, Varanasi.

Nimble Carpet Shearing Machine



The technology/product is a semi automatic carpet shearing machine to finish the uneven piles of carpets to obtain uniform thickness for the carpet which is required and enhances the aesthetics. This technology eliminates the manual shearing of the carpet by the operators with the help of hand shearing mechanical tools. The technology allows complete and uniform shearing of the carpet by one operator without hand tools.

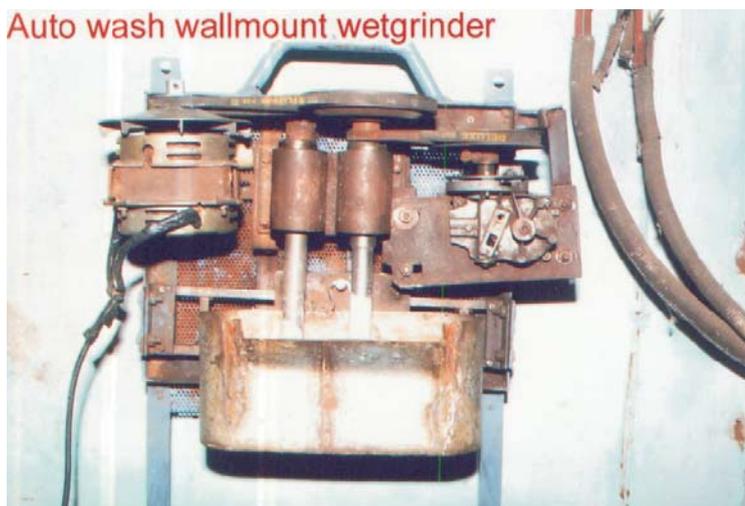
The technology has been transferred to M/s. Maruti Engg. Works, Varanasi.

Auto Wash Gear Roller Wall Mount Wet Grinder

The technology relates to wet grinder used in houses, hotels etc. to grind wet rice, dhal,

etc. The novelty of the technology is the introduction of a Gear roller combination that can grind wet material to coarse and then fine paste without slip in an oscillatory type elliptical container that is mounted in such a way, that it can clean itself and the rollers automatically.

Auto wash wallmount wetgrinder



The technology has been transferred to M/s. Gandhimathi Appliances Ltd., Chennai

The TCF details are given below.

Sl. No.	Place	Address
1.	Bangalore	M.S. Ramaiah School of Advanced Studies Gnanagangothri Campus, New BEL Road, Bangalore-560 054
2.	Bhubaneswar	KIIT-Technology Business Incubator (TBI) School of Biotechnology KIIT University Campus - 11 Patia, Bhubaneswar-751 024 Orissa
3.	Kharagpur	STEP – IIT Kharagpur Indian Institute of Technology PO Kharagpur Technology Kharagpur-721302, West Bengal
4.	Trivandrum	Technopark Campus, Thiruvananthapuram – 695581 Kerala
5.	Udaipur	Department of Farm Machinery & Power Engineering College of Technology & Engg. Udaipur – 313001 (Rajasthan)
6.	Varanasi	Malaviya Centre for Innovation, Incubation & Entrepreneurship (MCIIE) Department of Chemical Engineering & Technology Institute of Technology Banaras Hindu University, Varanasi – 221005, Uttar Pradesh
7.	Vellore	Vellore Institute of Technology - Technology Business Incubator, VIT, Vellore-6320114, Tamil Nadu
8.	Pune	Venture Centre, National Chemical Laboratory, Pune



National Awards to Commercializable Patents

The Awards have been instituted by TIFAC under the TREMAP programme to recognize the innovative potential of Indian nationals and to encourage the innovator community for making their innovations more practical and relevant to the industrial and societal needs. The objective of the award is to help commercialization of patented technologies. Award carries a sum of Rs. 5.00 lakhs and a certificate. In addition, selected innovations may be provided a commercialization incentive of Rs. 5.00 lakhs on commercialization of the awarded patents. Selected innovations are given opportunity to use TIFAC-TCF network for commercialization / transfer / licensing of patented technologies.

The following important activities were carried out during the course of selection:

- Conceptualization of scheme for National Awards to Patents that have commercial potential, formulation of detailed guidelines, application form, eligibility criteria, etc.
- The advertisement for the awards was released in 23 national and regional news papers in English, Hindi & regional languages.
- Personalized letters were sent to about 900 individual patent holders informing them about the awards scheme.
- Formulation of 3 stage selection procedure and formation of Committees to shortlist the applications and final selection of the awards.
- Short listing of 116 applications based on general eligibility conditions and other

criteria e.g. completeness of the application, all annexure attached, availability of photo, signature etc. though meeting of Internal Screening Committee (as a member of the Committee).

- Short listing of 37 applications based on level of innovation, commercialization status, etc. during the first meeting of the Technical Committee (as a member of the Committee).
- Requesting additional information from the 37 applicants shortlisted during the first meeting of the Technical Committee & its compilation
- Short listing of 20 applications based on additional information during Second Meeting of the Technical Committee
- Organizing personal presentations of finally shortlisted 20 applicants to the High Level Selection Committee, wherein 8 innovations / patents have been awarded.

The awards were conferred by the former President of India, Dr. A.P.J. Abdul Kalam, on the occasion of the TIFAC-Day held in New Delhi on February 10, 2012.



The following is the list of awardees:

Sl. No.	Name of Patent	Name of Patent holder
1.	Improved grinding machine for paste and powder making in wet and dry condition of soft material	Mr. Natarajan Rayar
2.	Device for mitigating shock waves and induced forces during explosions	Mr. Adess Singh
3.	Renew compression screw	Dr. Kartikeya Pranjivan Pathak
4.	Miniature solar photovoltaic modules and process for their manufacture	Mr. Anupam Baral
5.	Rubberized Coir Mattress and a Process for their Preparation	Mr. Kundan Zumerlal Kankaria & Mrs. Smita Kundan Kankaria
6.	Carpet Structure method of manufacture thereof	Mr. Vikas Katyul
7.	An Automatic Energy Monitoring System	Mr. Bharat Gupta
8.	Endodontic Instrument for Root Canal Sterilization	Dr. Vijayan Ravi Kumar

Ongoing Projects

Ten ongoing projects were pursued towards completion.

New Projects

The following four new projects were initiated:

S. No.	Project Title (in brief)	TCF
1.	Auto Wash Gear Roller Wall Mount Wet Grinder	VIT-TBI, Vellore
2.	Surgical Limb Positioner	-do-
3.	Pedal crank for doubling the torque	IIT-Kharagpur
4.	Intelligent Informer	-do-

2.3 TIFAC-SIDBI Revolving Fund for Technology Innovation Programme (SRIJAN)

The TIFAC-SIDBI Technology Innovation Programme *सृजन* (SRIJAN) was launched in November, 2010. Under the programme, a Revolving Fund was created by TIFAC with Small Industries Development Bank of India (SIDBI) for facilitating scaling up / commercialization of innovative technology

based projects in order to bring in high-risk technology innovations to the market for creating business opportunities in emerging technology areas and for a wider societal impact at the National level. The Fund would target bridging the gap in the means of finance for scaling up of commercially un-proven technologies where available promoters' fund and bank loans are either not sufficient or not available to meet the financial requirements of the enterprises.



TIFAC, primarily a technical organization, is responsible for technology appraisal of project proposals whereas SIDBI, a financial institution, has been carrying out the financial appraisal and managing the funds in terms of loan disbursement and its recovery. Thus, core competencies of both TIFAC and SIDBI are synergized for an effective technology innovation management.

Objectives

The programme aims at achieving the following objectives during its lifecycle and beyond:

- Encouraging scaling up / commercialization of novel / innovative technologies by enterprises by way of providing technical & financial support

Ongoing Projects

The following two projects were launched and were under implementation:

Sl. No.	Project Title	Company
1.	Development and Commercialization of Biodegradable Soluble cutting /Coolant Oil (BSCO)	M/s. Ecocare Bio Lube India Pvt. Ltd., Coimbatore with technology know-how from Indian Institute of Petroleum (IIP), Dehradun
2.	RFID tags for Solar PV module tracking	M/s. IAITO InfoTech Pvt. Ltd., SIIC, IIT-Kanpur

Development and Commercialization of Biodegradable Soluble cutting /Coolant Oil (BSCO)

The project was launched in July 2011. A patented technology for manufacturing biodegradable soluble cutting / coolant oil from non-edible vegetable oil resources, developed at R&D scale by Indian Institute of Petroleum (IIP), a laboratory under the Council of Scientific and Industrial Research (CSIR) of Government of India has been licensed to M/s. Ecocare Biolube (India) Pvt. Ltd., a start-up company in

- Sharing the risks of technology innovations by way of extending soft loan
- Enhancing collaboration among R&D, academia or any other technology know-how provider and industries towards up-scaling of innovative technologies
- Encouraging indigenization of new processes / products or adaptation of technologies from overseas sources with adequate development component in India

The financial assistance from the Revolving Fund would be limited to maximum 80% of the estimated total project cost wherein the industry would bring in at least 20% of the total project cost.

Coimbatore for demonstrating the technology at a scale-up level. Presently the soluble metal cutting fluid is being manufactured from mineral oil only, which is non-biodegradable and hence not environment friendly. Developing biodegradable metal cutting oil from renewable natural resources would be eco-friendly, clean & would substitute mineral oil / petroleum based metal cutting oil. The technology for blending of vegetable oil with other additives to produce BSCO is being commercialized for the first time in India. One of the biggest advantages would be its excellent lubricity as it contains 65-70 %



Biodegradable soluble cutting / coolant oil plant

oil content and extends tool life. The technology is basically to optimize process parameters at scale-up level for converting non-edible vegetable oil into Biodegradable Soluble Cutting Oil (BSCO) through suitable processing after adding additives, surfactants, corrosion inhibitors etc. under controlled conditions.

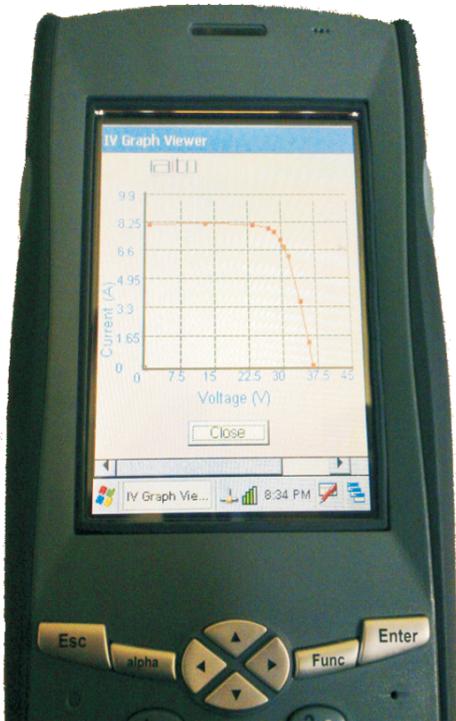
RFID tags for Solar PV module tracking

The project was launched in August 2011. Under the Jawaharlal Nehru National Solar Mission (JNNSM), MNRE, Govt. of India has formulated a policy that all future solar PV cells or PV modules would need to be tagged only with RFID tags. Presently, Solar PV cell and module manufacturers use the barcode system for identification of solar PV cells, which have certain limitations. Bar code identification is not very effective as barcode can be cloned easily. Hence, product authenticity was an issue with barcode. Barcode cannot store other performance characteristics data of PV panel

due to its limitation of data size. Automatic identification & verification has not been up to the mark using barcode system. The company M/s. IAITO Infotech, Kanpur has indigenously developed hardware, algorithm and RFID label for traceability and identification of Solar PV Modules using RFID tagging. RFID identification method relies on storing and retrieving remote data on/from devices called as Transponders or RFID Tags. Data is stored on a chip called RFID tag which can be attached to the PV cell and module which can be “read” by wireless devices called RFID readers. RFID system would comprise of three hardware components as follows: RFID UHF Writer Station, RFID PV Tracker Tags and RFID UHF Handheld Reader. RFID tagging would help in Item level visibility of PV Panels across manufacturing, distribution and site of application to detect and resolve arising bottlenecks. It would be a better tracking tool to improve the ability of supply chain by enhancing its productivity and accountability for longer life. The UHF technology has many

advantages over the HF technology & active technology. Multiple tag reading by RFID is

faster than other technologies, with good reading range compared to other two technologies.



RFID tags for solar PV module

New Projects

The following four projects were technically recommended to SIDBI after due technology appraisal by TIFAC:

Sl. No.	Project Title	Company
1.	Forced Draft Energy Recovery System	M/s. LeanWay Energy Pvt Ltd, Pune, Maharashtra
2.	Design, Manufacturing and Commercialization of Inertial Navigation Sensors and Autopilot	M/s. Aeron Systems Pvt. Ltd., Pune, Maharashtra
3.	Development and commercialization of new customized chemical formulations as an integrated recycle solution for reduction technology with better yield and lesser effluent	M/s Newreka Green-Synth Technologies Private Limited, Mumbai, Maharashtra
4.	Energy Efficient Cooling and Heating System (HVAC & R Systems)	M/s. Mech World Eco Pvt. Ltd. Nasik, Maharashtra with technology know-how from IIT-Bombay

Forced draft energy recovery system

The power generation using the exhaust air of uniform velocity of blowers has not been attempted by any industry. Hence, the concept of utilizing the kinetic energy of exhaust air blown out by exhaust blowers of industries to generate electrical power using vertical axis wind turbine cage would be the novelty of this project. The project would be an environment friendly and sustainable green initiative as it would utilize exhaust air to generate electrical power in commercial establishments. The technical interventions envisages like designing of wind turbine blades based on CFD, its positioning in front of blowers to avoid back pressure, mounting on shafts, customization of balance of power generation systems, fabrication techniques to impart sufficient mechanical strength to the impellers to withstand high air velocity etc. The electricity thus generated would be utilized for internal lighting purpose of the commercial units, which would reduce use of grid power to some extent and save electricity charges.

Design, Manufacturing and Commercialization of Inertial Navigation Sensors and Autopilot

The innovation is the design of sensors comprising of two unique features namely the software algorithm and structural design of orthogonal frame making the product different. The frame design would give structure of navigation sensor required strength maintaining the orthogonality among three gyros and three accelerometers mounted on different electronic cards. It would help in reducing misalignment errors. The software algorithms are important part of any inertial navigation sensor especially MEMS sensors as

the performance of the sensors is poor. Hence, tools such as Kalman filter are commonly used to improve system performance. The most complex content would be in writing the complex, robust algorithms for estimating the current states (position) accurately and filtering the unwanted noise due to the low cost MEMS sensors. The innovator of the company has developed a proprietary algorithm “Dynamix Filter” which enhances use of Kalman filter in dynamic conditions. The company has also developed a machined housing to mount the inertial sensors, which would remove the orthogonality errors due to mounting.

Development and commercialization of new customized chemical formulations as an integrated recycle solution for reduction technology with better yield and lesser effluent

The dyes and pharmaceutical industry are the two largest polluting sectors. M/s. Newreka Green Synth Technologies Pvt. Ltd., Mumbai has created a solution to address these environmental challenges by development of complete recycle solution (NRS) through customized green reducing agent (GCat) and recycle agent (RCat) for Recycling of effluent stream generated from each step in multistep manufacturing process thus improving yield. GCat provides high reduction potential, high selectivity towards quality amines and of mother liquor with low impurities which is recyclable. Spent G-Cat after the reduction can be filtered and can be used as by product for cement and brick industry. RCat are customized recycle formulations constituting various performance additives which selectively remove organic and inorganic impurities from the effluent streams (generated after isolation of amino compound) such that they can be recycled back for the next



reduction batch. The specifications of GCat & RCat would be different for each dye and pharma intermediate products.

Energy Efficient Cooling and Heating System (HVAC&R Systems)

The modified multi utility heat pump with vented double wall Tube – Tube Heat Exchanger (TTHE) would enable heat exchanges between multiple streams. The tube – tube heat exchanger would be a double wall tubular heat exchanger wherein two or more tubes would be placed side by side and bonded thermally using thermal bonding materials (TBM) for effective transfer of heat. Use of bends and straight lengths in tube-tube heat exchanger would result in significant enhancement of heat transfer due to secondary flows induced in the bends. The secondary flows induced in bend would lead to heat transfer enhancement in bend as well as in straight length downstream of bend without significant increase in pressure drop. The diameter of tube replacing the outer tube of a tube-tube heat exchanger could be

smaller. Tube diameter and number of tubes on each side could be chosen independent of each other and various configurations could be possible, resulting in greater flexibility in design. The new design would enable heat pumps to provide hot or cold utility in one pass providing high temperature difference which would result in decreasing time for heating water in comparison to conventional heat pumps.

The tube-tube heat exchanger is an innovation in field of heat transfer technologies. The new design would enable heat pumps to provide hot or cold utility in one pass by way of providing high temperature difference, which would result in decreasing time for heating water in compared to conventional heat pumps. The project would manufacture some products as standardized products while some other would be based on customers' typical requirements. The technology has been developed by IIT-Bombay and has been licensed to M/s Mech World Eco Pvt. Ltd. Nasik.

3 Technology Development Programmes

3.1 Advanced Composites Programme (ACP)

The Advanced Composites Programme set a pace of technological development in the Indian industry by working closely with the SMEs and National Research laboratories /academic institutions. The programme has been catalytic in helping Indian composite industry for adaptation of certain technology intensive processes/products.

The programme played a leading role in improving the technology absorption ability of industries by consolidating the linkage between the industries and research laboratories. The programme directed a whole lot of efforts on knowledge dissemination and creating user awareness in terms of improved properties, reduced weight, easy maintainability, longer life, higher efficiency etc. for the composite products. The programme has widely demonstrated the usage of composites in sectors like transportation, bio-medical, building & construction, etc. The industry perceived the

programme activities providing them with the unique opportunity of developing novel composite products with much reduced financial risk along with simultaneous approval and acceptance by the users.

A total of 44 projects were launched so far under the scheme, in active participation by the industry, national laboratories/academic institutions and user agencies. A basket of products developed successfully under the programme has reached the threshold of commercialization due to an effective project management and timely implementation by regular project reviews by the experts/users. The programme also facilitates skill development and enhancement for the industry personnel.

Projects Completed

Filament wound composite pipes and pipe-fittings

The project was launched in partnership with M/s. EPP Composites Pvt. Ltd., Metoda (Dist.





Rajkot). High-pressure filament wound glass-reinforced epoxy (GRE) pipes have been developed as per the standards of prestigious American Petroleum Institute (API 15 LR). Development of two critical equipment viz. long-term cyclic pressure test and hydrostatic collapse pressure test had been milestone achievements for the project. EPP has finally received API certificate in October 2011 entitled API spec Q1 and API spec 15 LR for composite pipes & fittings for pipe dia. up to 24" and

operating pressure up to 1,000 psig. EPP is first in South Asia and 17th in the whole world to have API certificate. With API certification, EPP would be in a position to supply filament wound GRE pipes for critical applications (offshore & onshore) for the oil & gas sector in India as well as in the international market. This marks a very innovative technological achievement as all Indian oil & gas companies have been importing these special purpose pipes from abroad.

4 Umbrella Scheme on Technology Vision 2020 Projects in Mission Mode (TV2020)

4.1 Agriculture and Fisheries

The Technology Vision 2020 Mission Mode Projects on Agriculture is under completion stage. During the year, two agriculture projects were completed, one focused on promotion of bio-pesticides and the other aimed at demonstration of quality mode crop production technologies, as detailed below. :

1. Quality Mode Production in Rice-Wheat Cropping System through Farmers Interest Groups

Implementing Agency: Department of Extension, Institute of Agricultural Sciences, Banaras Hindu University (BHU), Varanasi

Location: Araziline, Pindra, Haruah and Badagaon blocks of Varanasi District, U.P.

The project was aimed at creating awareness through demonstrations and trainings on the improved cultivation technology for reduced level (acceptable limits) of pesticide / insecticide residues in crops and vegetables. Through project intervention pesticide / insecticide residue level showed reducing trend in wheat, paddy, okra, tomato and brinjal crops grown under quality mode production system in the project area. In the year 2011 – 12, paddy and wheat crops were grown on 21 and 31 ha respectively. Similarly, vegetables (Okra, brinjal & tomato) were cultivated on an area of 18 ha. Hence, a total of 120 farmers were involved in the quality mode production of crops viz. wheat, paddy, tomato, brinjal and okra.

A series of technology demonstrations on quality mode production techniques like balanced use of fertilizers & pesticides, use of quality fertilizers and resource conservation technologies were organized at selected villages of project for the benefit of farmers. Farmers were trained in seed treatment, application of FYM and basal dose of fertilizers (as per calculation based on fertility status of soil) and timely irrigation based on soil moisture conditions and crop requirements. Crop Protection measures were initiated and farmers were made aware of pesticide formulations and methods of spraying pesticides along with harmful effects of excess use of pesticides through training and awareness programmes. Some of the significant achievements made in the project are:

- The average protein and carbohydrate content were increased to 1.1% both in Rice and Okra.
- As far as safe production is concerned 98 % rice and 90% of Okra samples were found to be under safer limits for consumption, whereas only 57% rice and 26% of Okra samples were found to be safe for consumption in non adopted farmers.
- The pesticide / insecticide residue level in paddy and okra crops grown under quality mode production protocols were found to be within the maximum permissible limits of Prevention of Food Adulteration Act (PFA, 2007, Ministry of Health, Govt. of India) standards.



- Yields of rice and wheat were higher under quality mode production compared to traditional farmers' practice. The percentage increase in yields of Rice, Wheat, Tomato, Brinjal and okra were 13%, 17%, 20%, 13% and 19% respectively.
- Residue levels for all the selected crops viz., Wheat, Rice, Brinjal, Tomato and Okra were in safe level as per ICAR norms.
- The increased percentages of net income of various crops over traditional methods of production were found to be around 20.13% in Okra, and 39.1% in Paddy.
- There was a reduction in water consumption due to proper management practices
- The total cost of cultivation was reduced to the tune of 15-30%. Hence, increase in Net Income Per Ha and Improved of quality of produce fetched remunerative price. IRR was around 12%.

The project period was completed in March, 2012

2. On Farm Demonstration and Commercial Cultivation of *Trichoderma* as Bio-Pesticide & Growth Promoter.

Implementing Agency: Division of Plant Pathology, I.A.R.I., New Delhi

Location: In Jaipur district (Samod & Chaksu Tehsils) and Kota district (Digod Tehsil), Rajasthan

The project was to demonstrate low cost crop protection techniques for effective control of pest

and diseases through promotion of *Trichoderma* bio-formulations and also Integrated Pest Management (IPM) techniques. The project also focused on development of replicable entrepreneurship model for commercial production of *Trichoderma* bio - formulation and its application.

The field trials of the bio-formulation of *Trichoderma harzianum* Th3 strain were carried out in farmers' fields on crops such as wheat, barley, fenugreek, groundnut and vegetables in Jaipur district and wheat, soybean and rice in Kota district. With the project intervention, incidence of diseases especially in Groundnut was significantly reduced; similar results were reported in wheat, barely, chilli, cauliflower, onion, etc. due to which the yield of these crops increased. Around 680 extensive field demonstrations were carried out in farmers' fields during Rabi and Kharif seasons. Farmers were trained in seed treatment and application of bioformulations. A total of 188 farmers from 20 villages, with a demonstration area of around 498 hectares, participated in the project. Around 752 kg of powdered *Trichoderma* bio-formulation and 752 liters of liquid bio-formulation were prepared and distributed to farmers in the project area for application during both Rabi and Kharif seasons. A week-long field training on use of *Trichoderma* in disease management under integrated disease management programme was organized during October, 2011 at village Digodh, Kota district. Around 80 farmers participated in the training programme. A training programme on 'Plant growth enhancement and disease control by *Trichoderma* in vegetable seedlings grown under commercial conditions' was organized during October 21-31, 2011 at Samode and Dodsar villages of Jaipur district, which was attended by 85 farmers.

An entrepreneurship training was organized in October, 2011 at IARI, New Delhi. A Kisan Goshthi – farmers interaction was organized on October 30, 2011 at Village Digodh in Kota District. A kisan mela was organized at village Dodsar in Jaipur district to create awareness

about IPM in general and *Trichoderma* in particular and also other crop protection activities and IPM products. More than 100 farmers participated in the Kisan mela. The project period was completed in March, 2012



Tomato Crop cultivated with quality mode production techniques, Varanasi, U.P



Standing wheat crop in the field cultivated adopting quality mode production techniques at Varanasi, U.P.



A progressive farmer being felicitated in Kissan Mela organized at Dodsar, Jaipur district



Cabbage crop cultivated by application of *Trichoderma* bioformulation at Samode, Jaipur district



Fisheries

Interventions in fisheries sector aimed at demonstration and adoption of technologies related to production and processing of aquatic organisms at grassroots level.

Completed Project:

Value addition of low value marine pelagic fishes

Implementing Agency: Rural Organization for Social Action (ROSA), Tharangambadi, Nagapatinam Dist., Tamil Nadu

Location: Coastal fishing villages of Tharangambadi, Kuttiyandiyur, and Perumalpettai in Tharangambadi Taluk, Nagapatinam Dist., Tamil Nadu

Prior to implementation of the project, women in the project area practiced unhygienic methods of salt curing and fish drying on roadside or on dirty soil surfaces resulting in fish products either unfit for human consumption or of inferior quality. Hence, the project targeted demonstration and adoption of scientific techniques/ technologies for value-addition of low value pelagic resources from the sea, in technical collaboration with Fisheries College and Research Institute (FCRI), Thoothukudi.

240 fisherwomen from three villages directly benefited from this project. Women fisher-folk were trained on aspects like personal hygiene, hygienic handling of fishes, cleaning schedule, production of value-added fish products, packaging techniques, etc. A training manual in Tamil language was prepared and distributed to the fisherwomen. Technically/ scientifically

improved infrastructure/ equipments like fish brining tanks, drying racks, smoking kiln, etc. were installed in the villages and a central processing facility was also established. Technology for production of value-added products from low value fishes was demonstrated/ transferred to the fisher women by FCRI.

Value-added products produced included fish pickle, rack dried fish, masala dried fish, brined fish, smoked fish, fish wafer and fish puff. These products are being marketed in local markets under trade name 'Tranquebar Fish Products'. The project resulted in reducing post-harvest losses from 20% to 5%. As an outcome of the project, a few fisher women involved in the project started a pickling unit of their own and could sell the products in local market besides exporting.

4.2. Agro Food Processing Sector

4.2.1 Milk Sector

Ongoing Projects:

Clean Milk Production in West Bengal

Implementing Agency: West Bengal Cooperative Milk Producers' Federation, Kolkata

Location: 24 Parganas (North) District, West Bengal

The objectives are to develop a demonstration model of productivity enhancement and clean milk production, the project Implementation is being continued towards completion in multiple milk societies.

Enhancing income of small and marginal farmers through clean milk production and value addition in the tribal districts of Jharkhand under public-private-people cooperation.

Implementing Agency: In association with Krishi Gram Vikas Kentra (KGVK), Ranchi
Location: Bundu & Patratu blocks of Ranchi & Ramgarh Districts, Jharkhand

The objectives are to create awareness in farmer groups for introduction of appropriate technology for clean milk production through hygienic practices, enhancing productivity of cattle through improved breed and better management practices, enhancing quality of milk and volume of milk production through appropriate technologies, reducing wastage of milk by 20% due to efficient milking practices, increased income to farmers through clean milk

production and value-addition for sustainability.

4.3 Mission REACH

The Mission REACH programme (**R**elevance and **E**xcellence in **ACH**ieving new heights in educational institutions) was launched by TIFAC during October 2000, aiming towards the development of human resources of international standards, imparting high quality education in chosen areas of high relevance to industry and society by creating sustainable linkages between academia and industry. Selected engineering, science and technical Institutions are supported to establish Centres of Excellence & Relevance (CORE) and the curriculum is broadened in collaboration with relevant industries in order to meet the S&T manpower demand in the advanced emerging areas.

During year many projects were ongoing such as:

Sl. No	Title of the CORE	Name of the Institution
1.	Machine Vision	Rajalakshmi Engineering College, Chennai
2.	Telematics	VR Siddhartha Engineering College, Vijayawada
3.	Food Processing & Quality Control	Techno India, Kolkata
4.	Technical Textiles	Textile & Engineering Institute, Ichalkaranji
5.	Aircraft Maintenance	Hindustan Institute of Technology & Science, Chennai
6.	Interventional Radiology	Jawaharlal Nehru Medical College, Wardha
7.	Pharmacogenomics	Manipal University, Manipal
8.	Power Transformer Diagnostics	National Institute of Technology, Hamirpur
9.	Digital Image Processing	M S Ramaih School of Advanced Studies. Bangalore
10.	New Drug Delivery Systems	MS University, Vadodara

4.4 Collaborative Automotive R&D (CAR)

Ongoing Projects

Under CAR, of a total of 10 consortium projects that were taken up, five projects were completed by 2009-10. The progress in the remaining five ongoing projects during the year is reflected below.

Use of Straight Vegetable Oils in IC Engines

Consortium members: IIT Madras, ICAT, Manesar, IISc Bangalore

The project has been declared completed. Under this project, an exhaustive database has been generated with 17 physical, thermo-chemicals, physio-chemical and chemical properties of 4 different types of straight vegetable oils, with samples sourced from various geographic locations for each of them. A model has been developed for property predictions of SVO. Useful properties concerning evaporation, spray and combustion characteristics of straight vegetable oils have been identified and evaluated. A unique experimental facility has been created for studies on spray characteristics of Indian SVOs at atmospheric and high pressures.

Ultracapacitor for Electric and Hybrid Electric Vehicles

Consortium members: IISc Bangalore, IIT Kharagpur, NCL Pune, NED Energy Limited, Kaptronics Pvt. Ltd.

Prototypes for ultra capacitor as well as hybrid capacitors have been developed using materials developed by the consortium partners. Stacks of hybrid capacitors have also been developed and demonstrated.

Competence development in Electromagnetic Manufacturing for manufacture of automotive components

Consortium members: BARC Mumbai, AMPRI Bhopal, IIT Bombay, IIT Delhi, IPR Gandhi Nagar and CMTI Bangalore



BARC has indigenously developed a functional 40 KJ, 20 KV electromagnetic machine. Major components viz. Capacitor Banks, Coils, Field Shapers were developed in house. The machine is now available for conducting feasibility studies on automotive components to generate material related data. The project is being reformulated and it is now being proposed that M/s. ECIL will fabricate 4 prototypes of this equipment with technology know-how from BARC and provide to consortium partners for carrying out feasibility studies.

Process development in Semisolid Forming and Squeeze Casting of Al-components for automobile components

Consortium members: IISc Bangalore, Sundaram Claytons, TVS Motor Co., Mahindra & Mahindra

IISc has developed competence in process development and also successfully developed "semi-solid billet" indigenously using electromagnetic stirring process. Further, IISc designed the dies and fabricated / being

fabricated four automotive components using the following processes :

Squeeze Casting

- a. Connecting Rod (TVS Motors) – Completed

Semisolid Forming

- a. Cylinder Epsilon Rear Component (for M/s. Sundaram Clayton) – Completed
- b. Connecting Rod (for TVS Motors) – Completed
- c. Steering Knuckle Joint (for Mahindra and Mahindra) – trials are underway.

Low cost flexible automation (LCFA)

Consortium members: IIT Madras, Systematics and Magtorq, IIT Bombay, TVS Motor Co., Mahindra & Mahindra, Sona Koyo, TVS Lucas, MICO Ltd

Development of Cyclo Speed Reducers is one of the tangible achievements in the project. So far Sumitomo, Japan has the global monopoly for the cyclos. The Magtorq has designed and fabricated four series of cyclos and supplied 10 units for incorporation in Low Cost Scara (LCS) Robot. The tolerance levels obtained met the requirement.

- a) *Low Cost SCARA (LCS) Robot:* Functional (tested) prototype is expected to be ready for calibration and testing
- b) *Direct Drive SCARA (DDS) Robot:* Alpha (functional) prototype was made running at low speeds with imported motors. Beta (tested) Prototype is pending due to non-availability of larger motors for integration. DDS shares LCS packaging and is similar.

- c) *Articulated 6 Axis (A6A) Robot:* One unit of Articulated 6 degrees of freedom arm A6A without wrist is completed.

New Projects



The following two projects nucleated by CAR were transferred to the Department of Heavy Industry. These projects are being funded through CESS R&D funding programme. In order to review and monitor the project a steering was formed under the Chairmanship of Joint Secretary (Heavy Industries) with technical experts from independent agencies in the areas of Joining Technologies, Aluminum Metallurgy and Structural Design and Hybrid Electric Vehicles.



Title of the project	Consortium members	Project Details
Lite Bus project	ARAI, IIT Bombay, Altair Engineering, Aluminium Association of India (AAI)	The project aims to develop design guidelines for light weight city transit bus for maximum light weighting under Indian conditions. This include investigate structural designs, material selection, and manufacturing technologies for Aluminium intensive bus body conforming to Bus Body Code: AIS: 052. It will include scientific investigation on joining techniques, crash impact properties, and the impact of design on ergonomic and aesthetic aspects.
Development of Off line and Real time Simulator for	CDAC Trivandrum, ARAI Pune, IIT Bombay, IISc Bangalore	Objective of the proposed project is to develop off-line, real time and hardware in loop simulator for electric vehicle/ hybrid electric vehicle systems and extend the knowledge base to academic institution and industries. The final deliverables are: <ul style="list-style-type: none"> • Offline Simulator: Simulation Software, library elements and application specific for EV-HEV models • Real-time Simulator: Parallel processing hardware, application software, library elements, HIL simulation interface for EV/HEV. • Knowhow for offline and real time simulation platform and HIL simulation Training material for simulation

Completed Studies

A technology foresight study on NO_x Control in Internal Combustion Engines was completed in July 2011. This study was prepared by experts from major academic institutions as well as industry. The report discusses trends in NO_x control technologies and prepares a roadmap for development of NO_x control technologies in India.

National Mission on Electric Mobility

TIFAC has been involved with the preparation of the Technology Programme & Policy for the National Mission on Electric Mobility (NMEM). The Mission is being coordinated by Department of Heavy Industry and has participation of ministries of Science and Technology, Power, New and Renewable Resources, Road Transportation, etc.

TIFAC has prepared a draft Roadmap for National Mission on Hybrid and Electric Vehicles. A set of technology promotion policy studies requested by Secretary, Department of Heavy Industry (DHI) will be initiated shortly.

4.5 Targeted Programmes in other Important Areas

4.5.1 Bioprocess & Bioproducts Programme

Bioprocess & Bioproducts Programme of TIFAC, launched in January 2007, aims to address critical technology needs for biotransformation & enzymatic processes towards development of active pharmaceutical ingredients, nutraceuticals, phyto-chemicals, value-added bio-products, bio-energy & bio-fuels, etc. Ten projects were launched so far under the programme in the aforesaid sectors.

The status of ongoing projects, projects completed during 2011-12 are given hereunder:

Completed Projects

Efficient utilization of jatropha seed cake by detoxification

Partners: with Osmania University (OU) & M/s. Naturol Bioenergy Ltd., Hyderabad

The project is designed to carry out studies for detoxification of jatropha seedcake by enzymes such as dioxygenase and alkane hydroxylases from isolated pseudomonas and standard pseudomonas culture. The project involved proteomic studies for selection of suitable enzymes, cloning of efficient enzymes in thermotolerant yeast for extra cellular expression, stability and evaluation of toxic compound after enzyme treatment.

Optimization studies were carried out towards reducing fermentation time for achieving acceptable levels of toxicants viz. phorbol esters in jatropha seed cake. The detoxified jatropha seedcake was compared with the groundnut seedcake for their nutritional values, toxicity etc. Analysis of protein, carbohydrates, phorbol esters, curcun, saponins, total phenols, phytic acid, trypsin inhibitors, aflotoxins, microbial load and fiber were also carried out for comparison. Maximum detoxification was achieved with minimum protein loss.

Trials were conducted for poultry and cattle feed using detoxified jatropha seedcake in collaboration with project directorate on poultry (PDP), ICAR, Hyderabad and Goshala, Zaheerabad. Scale up of detoxification studies were carried out at 24 kg capacity. The project was successfully completed in January 2012 on achieving all its stipulated objectives within the agreed time-frame.

Development of biotransformation process for synthesis of chirally pure compounds

Partners: with IIT- Bombay and M/s Sci Molecules India Pvt. Ltd., Pune

The project, is to develop technology for synthesis of (S) -Ibuprofen & (S)-Glycidol by biotransformation route.

Ibuprofen is a non-steroidal anti-inflammatory drug used for relief of symptoms of arthritis, primary dysmenorrhea, fever, and as an analgesic, especially where there is an inflammatory component. Glycidol is widely used as starting materials for the synthesis of many interesting compounds, such as β -blocker drugs, anticancer drugs, protein synthesis inhibitors, as well as a 2-oxazolidinone derivative used against depression.

The activity of enzymes, isolated from six natural sources, was improved from 12 ± 3 U/ml to the 180 ± 10 U/ml after media optimization. Out of these two enzyme strains (SMIPL-3 & SMIPL-6) were screened for biotransformation due to their high enantiomeric efficiency (above 90 %) towards hydrolysis of ibuprofen ethyl ester. Ammonium sulphate precipitation and hydrophobic interaction chromatography were optimized for high catalytic formulation. Enzyme recovery achieved in the process has been in the range of 70 - 90%. Selected enzymes were formulated using protein-coated microcrystals for non-aqueous reactions of biotransformation.

Biotransformation reaction was optimized and the enzyme production was scaled-up to 25 lit fermenter capacity with 180 ± 10 U/ml activity. Biotransformation activity of enzymes produced at large scale was validated



successfully. Downstream processing of molecules obtained after biotransformation was optimized with 87 ± 2 % recovery and 99 ± 1 % purity. Chiral selectivity of the isolated compound showed enantiomeric efficiency of 90 ± 2 %.

Synthesis of s-glycidol was also carried out. The results were in favour of using SMIPL-3 as the bio-catalyst for synthesizing s-glycidol.

The biotransformation process technology for synthesis of chirally pure compounds was developed successfully and the project was completed in March 2012 on achieving its targeted objectives.

Ongoing Projects

Centre for Biofuels

The project was launched with National Institute for Interdisciplinary Science & Technology (NIIST), Trivandrum for undertaking cutting edge research activities in bio-refinery related technologies and envisaged as a leading seat of pedagogy for generation of

knowledge and imparting skill development programmes for the industries and institutions from India and abroad. The centre would collaborate for accelerated development of improved strategies and technologies in bringing bio-fuels to market in sustainable manner.

Six biomass feedstock were identified for their abundant availability in India namely, sugarcane bagasse, sugarcane tops, bamboo, rice straw, cotton stalks, chilli stalks. Laboratory studies were carried out on their composition, pretreatment, hydrolysis and fermentation. Results obtained on these aspects confirm that the selected feedstock could be potential raw materials for bio-ethanol production. Dilute acid, alkali and hybrid technologies were evaluated for pre-treatment and optimized for the conversion of biomass to sugars. The studies were also conducted using advanced methods for evaluating the structural changes occurring during pretreatment and the changes in chemical composition of biomass. Best pretreatment strategies were derived for all the six biomass types.



Pilot Plant at CSIR-NIIST, Triavdandrum



Fermenter (capacity 200 lits.)

Technologies for recovery of lignin were evaluated and optimized. Technologies for conversion of hemicellulose derived sugars to value added products are currently being evaluated. Enzyme blends and saccharification conditions were evaluated for hydrolysis of the six feedstock selected for study. Several experiments carried out in the laboratory scale would need to be validated in the pilot plant under more realistic operating conditions. The entire civil construction of LC ethanol pilot plant at NIIST had been completed. The erection and commissioning of the pilot plant along with installation of various equipments is expected to be completed by April, 2012.



The hydrolysis reactor, nauta mixer & neutralization reactor

During the project activities for the preliminary experiments for the optimization of pre-treatment & hydrolysis of LC ethanol have resulted into publication of several technical reports & papers in reputed journals and presentations in the conferences.



Hon. Secretary-DST, Dr T Ramasami inaugurating the Pilot plant

Process development for production of L-arginine by fermentation

Partners: Jawaharlal Nehru Technological University (JNTU) & M/s Celestial Labs Ltd., Hyderabad,

The project aims to develop a process for L-arginine from the selected microorganisms. The strain has been improved by conventional mutagenesis and recombinant approaches at JNTU.

Five significant factors of the media composition were optimized based on RSM method. Statistical optimization technique was followed for designing parameters. The L-arginine production level of *B. subtilis* mutant (single analogue resistant mutant M1) & *B. subtilis* mutant (second level multi- analogue resistant mutant M2) were studied by culturing the organism under optimized conditions and the process parameters. A maximum of 11.23 mg/ml & 14.00 mg/ml L-arginine production was



observed at 72 hrs & 84 hrs respectively. Bioreactor studies were optimized.

The experimental results obtained by JNTU at the lab scale (bioreactor volume: 10 lits.) for L-arginine production by using in-house mutant strain were very much encouraging for the industry partner to take up the scale up work. Hence, towards a seamless scale-up of the technology for its smooth transition from the lab scale to commercialization, the next set of experiments would be carried out with M2 only using optimized media composition. The industry partner, Celestial Labs Ltd., Hyderabad would then scale up technology at 100 lit. capacity using M2 mutant strain, optimized media composition and process parameters based on the data obtained by JNTU for L-arginine production.

New Projects

Development of novel process in isolating standardized extract of Aloe Vera and its application for diabetes control

Partners: Centre for Bioseparation Technology (CBST), VIT University, Vellore and M/s.Laila Pharmaceuticals Pvt. Ltd., Vijayawada,

The project, launched in July 2011 aims to develop and standardize a novel process for aloe vera extract to control diabetes in human.

Extract would be thoroughly evaluated in the animal models before human trials under defined regulatory and ethical conditions. The project progress is being reviewed by an Advisory & Monitoring Committee comprising domain experts and diabetologists as constituted by TIFAC.

Extracts were prepared in lab and pilot scale from three different sources of *Aloe Vera* with

an average yield of about 0.78%. Phytochemical analysis of the important parameters of extract namely, moisture content, polyphenol, antioxidants, flavonoids, carbohydrates, protein and HPLC analysis in comparison to the reference extract were carried out. ED₅₀ studies on animals were carried out for diabetic Wistar Albino rats. The data collected on various biochemical parameters like Fasting Plasma Glucose (FPG) levels, insulin levels, lipid profile, liver function test and kidney function test were carried out. Acute toxicity studies with the extract as per OECD guidelines on animals were also carried out.

Development of biotechnology based process for waste reduction in potato processing

Partners: IIT-Kharagpur and Basukinath Food Processor Ltd., Kharagpur,

The project, launched in September 2011, aims to develop low cost alternative biological process for peeling of potatoes, standardization of process for easy removal of peel, comparison of the process efficiency with the commercial and indigenously produced enzymes and evaluation of the treated potato.

The physical & chemical characterizations of potato peels and wastes from various potato processing stages at laboratory level were carried out. Experiments were carried out to assess the amount of the protein, sugar, total starch, total reducing sugar, amino acid and cellulose present in the potato peel. The total sugar (43.94%) and starch content (48%) of the potato peel were quite suitable for the enzymatic process for its hydrolysis. It also serves as a good feedstock for ethanol production.

Suitable enzyme cocktail was identified for the process and the desired quantity of enzymes was produced. Enzymatic treatment had been performed for improved peeling using enzymes produced in-house and procured from suppliers. Experiments were carried out for evaluation of biogas (4.2 lit.) by digesting potato waste.

4.5.2 Synergizing S & T with Judicial Processes

Ongoing Projects

The following three technology demonstration projects were ongoing:

- 1) Selection of Panel of SNP Markers for Forensic Analysis in Indian Population
- 2) e- Courtroom: Digital Recording and Retrieval System (e-DRRS)
- 3) e –Courtroom: Document cum Evidence Management System (e-DEMS)

4.5.3 Technology Up gradation of select MSME clusters

TIFAC has been taking initiatives under the MSME Programme towards establishing and leveraging industry-academia interactions for providing R&D support to select MSME clusters. Under this programme, two R&D Centres were established, one at the School of Automotive Engineering of Jadavpur University, Kolkata for the Howrah Foundry cluster and School of Bioscience and Engineering of Jadavpur University, Kolkata for the Baruipur Surgical Instruments Industry cluster. The progress in brief during the year is given below.

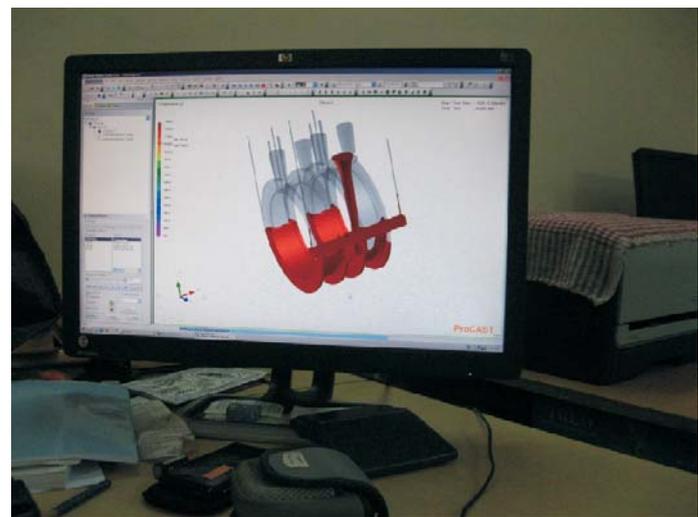
R& D and Innovation Centre for Howrah Foundry cluster

The building of the R&D and Innovation Centre was inaugurated by Dr. Anil Kakodkar, Chairman, TIFAC Governing Council, on January 6, 2012. The following are the highlights of new initiatives and ongoing activities undertaken by the Centre:

Casting Simulation:

The casting simulation facilities set up in the Laboratory and being introduced to the cluster for the first time are being used by foundries in the cluster.

Efforts for wider adoption by other foundries in the cluster are on.





R&D and Innovation Center building

Laboratory with Chemical / spectroscopic analysis, Metallurgical / metallographic Testing and Sand testing facilities:



Metallurgical Microscope along with accessories have been installed and made operational for the service of the Cluster. The Laboratory is



Dr. Anil Kakodkar, Chairman TIFAC Governing Council & Vice Chancellor, Jadavpur University

being upgraded with other sophisticated equipments for Non-destructive testing.

Mobile Casting Clinic: The mobile casting clinic is an integral part of the Centre. A mobile van with sand testing equipments undertakes scheduled visits to foundries and its services are being currently utilized by more than 100 foundries in the cluster.

Modification of Divided Blast Cupola (DBC): Efforts towards redesigning of Cupolas were continued. Three cupolas in three different foundries have been redesigned so far. The entire process requires 10 to 15 days time for conversion. With minor design modification, the cupolas consume 30% less of coke, with simultaneous reduction in SPM levels.

Documentary film titled 'Casting India's Future...Work in Progress': Towards wider dissemination of best practices of the Foundry

Industry the film has been dubbed into Hindi and Bengali.

R& D and Innovation centre for Baruipur Surgical Instruments Industry cluster

The R&D and Innovation Centre for Baruipur Surgical Instruments Industry Cluster, set up at Jadavpur University, Kolkata, is now functional with the installation of different testing equipments. The Centre has been regularly interacting with the cluster industries and leading surgeons. A number of industrial units availed the testing facilities at the R&D and Innovation Centre for testing their raw materials and products. The tests conducted so far include mechanical tests, surface finish tests and dimensional accuracy tests. Designing of milling cutter for articles like forceps/ scissors and associated fixtures has been successfully done and demonstrated by the Centre. Consultancy services were also provided to few units for design and fabrication of suitable milling cutter.



Dr. Anil Kakodkar interacting with Industry representative of Baruipur cluster

Under the ongoing training program on 'Advancement in Manufacturing Techniques

for Surgical Instruments', a second batch of 25 entrepreneurs have been trained by the Centre. The training has been done in association with Surgeons as well as faculty from different departments of Jadavpur University and has been very effective for the entrepreneurs in getting acquainted with modern practices of forging, shaping etc. The exposure has motivated them to adopt better practices.

Malda Food Processing Cluster

As a follow up to an earlier study by Central Institute for Sub-tropical Horticulture (CISH), Lucknow, a Detailed Project Report (DPR) for 'Setting up an Aseptic Pulp Processing cum Packaging plant at Food Park, Malda' was prepared by NABCONS, a subsidiary of NABARD, jointly with the Department of Food Processing Industries & Horticulture, Government of West Bengal. The DPR has brought out the ideal production capacity, the production period and annual requirement of mangoes & other fruits like Pineapple, Tomato etc. for a plant to run on a commercial basis. It is envisaged that establishing such a plant would yield better margin for the Fruit producers of the region by enhancing the Quality and widening the Market reach.

Further Initiatives: - Technology Gap Analysis Studies in Eleven Clusters

Further initiatives have been taken in the year 2011 to spread and expand the reach of the MSME Program. In line with the objective of the MSME Program, the industry associations and academia in the select 11 MSME clusters are sensitized to establish a linkage between the nearby academia and cluster industries so that the knowledge and technical expertise of the academia can be utilized/leveraged for the



benefit of industries by providing requisite technical help and sustained R&D support as per their requirements. As a first step, 12 new 'Technology Gap Analysis Studies' were commissioned in the 11 MSME clusters across

the country with nearby and capable Knowledge Partners (Technical Institutions).

The details of the Technology Gap Analysis Studies commissioned with nearby technical institutions/knowledge partners as follows:

Sr. No	Title	Knowledge Partner	Study Findings & Recommendations (completed studies & draft studies)
1	Fashion Design Technology in Readymade Garment Cluster in Tirupur	NIFT-TEA Knitwear Fashion Institute, Tirupur, Tamil Nadu	Recommendations awaited
2	Production/ Manufacturing Processes as well as Environmental Aspects of Readymade Garments Cluster in Tirupur, Tamil Nadu	PSG College of Technology, Coimbatore, Tamil Nadu	<ul style="list-style-type: none"> ▪ Modular Production System to reduce workforce as well as to utilize same floor space for more lines which reduces lower material intake per line and thus a better quality. ▪ Massive skill development program is required to bridge the gap between managerial and technical staff. ▪ Use of existing technology more efficiently or use of modern technology to make the system more efficient. ▪ Development of knowledge centres and resources to assist the garment industries in the areas of latest technologies, machineries, engineering products to suit specific application, market potential and marketability Establishing a sizing and measurement system for mass customization according to the end use.
3	Plastic Cluster in Mumbai	Institute of Chemical Technology, Mumbai Univ., Mumbai, Maharashtra	Recommendations awaited
4	Bicycle Parts Cluster in Ludhiana, Punjab	Dr. B.R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab	<ul style="list-style-type: none"> ▪ Low cost automation: to combat scarcity of labor, enhanced productivity, better quality, improved welding etc by integrating several manufacturing processes ▪ Introduction of new material like magnesium alloys, aluminium alloys and fibre reinforced composites for light weight, high strength and high stiffness of bicycles ▪ Feasibility study for material substitution required ▪ Requirement of electric bicycles for high end user segment

Sr. No	Title	Knowledge Partner	Study Findings & Recommendations (completed studies & draft studies)
5	Sewing Machine Cluster in Ludhiana, Punjab	Dr. B.R. Ambedkar National Institute of Technology (NIT), Jalandhar, Punjab	<ul style="list-style-type: none"> Low cost automation: as economic replacement to current CNCs Designing new improved high speed USB, smart card, memory stick, data card (software compatible) sewing machines with enhanced features like options of varied embroidery, different patterns etc Reduction in sewing machine weight with use of composites, plastics etc
6	Plastics Cluster in Delhi	Central Institute of Plastic Engg. & Technology (CIPET), Panipat, Haryana	<ul style="list-style-type: none"> Computer integrated molding processes: will allow control of entire manufacturing facilities, enabling optimization of information as well as information flow for design, production, maintenance, material handling, and inventory control Recycling of polymeric material Optimization of melt processes through melt conveyance techniques
7	Mini Gas Cylinder Cluster in Meerut, Uttar Pradesh	Meerut Institute of Engg. & Technology, Meerut, U.P.	<ul style="list-style-type: none"> Product innovation and diversification facility Testing and certification as per BIS Waste minimization, recycling and reuse
8	Voltage Stabilizers Cluster in Meerut, Uttar Pradesh	Meerut Institute of Engg. & Technology, Meerut, U.P.	<ul style="list-style-type: none"> Introduction of ICT for product marketing Test jig for flexible testing of all kinds of voltage stabilizers as per standards
9	Readymade Garment Industries Cluster in Delhi/NCR region	The Technological Institute of Textile & Sciences (TITS), Bhiwani, Haryana	Recommendations awaited
10	Textile Cluster in Panipat	The Technological Institute of Textile & Sciences (TITS), Bhiwani Haryana	Recommendations awaited
11	Electronics Cluster in Mohali, Punjab	Centre for Development of Advanced Computing (formerly CEDTI), Mohali, Punjab	<ul style="list-style-type: none"> Automation : Mechantronics with tool room for product innovation, rapid prototyping, design and development of heterogeneous products Latest softwares for circuit designing and simulation
12	Auto Component Cluster in Jamshedpur	National Institute of Technology (NIT), Jamshedpur	Recommendations awaited



Progress

- Five studies for the following clusters (i) Sewing machine cluster, Ludhiana (ii) Bicycle parts cluster, Ludhiana, (iii) Mini gas cylinder, Meerut (iv) Voltage stabilizer cluster, Meerut, (v) Electronics cluster, Mohali, had been completed.
- Five draft study reports for the following clusters have been submitted by the knowledge partners and are under consideration (i) Ready made garment cluster (fashion design), Tirupur (ii) Readymade Garment Industries Cluster, Delhi/NCR region (iii) Textile Cluster, Panipat (iv) Plastic cluster, Mumbai (v) Plastic cluster, Delhi. The draft reports will be finalized after the validation of the draft study reports by the cluster stakeholders.
- Two studies are ongoing namely (i)

Production/Manufacturing Processes as well as Environmental Aspects of Readymade Garments Cluster in Tirupur, Tamil Nadu and (ii) Auto components cluster, Jamshedpur.

4.5.4 Miscellaneous Projects

Solar Thermal Concentrators Demonstration Project, Heavy Water Project at Kota:

The project has been successfully completed with installation of four units of Arun 160 solar concentrators along with integration system including piping and other accessories at the Heavy Water Plant Kota. Performance monitoring has also been completed with analysis suggesting further improvements and establishing performance benchmark. The system is meant for drying of Sodium Sulphate (Na_2SO_4),



5 International Cooperation

5.1 India-International Institute for Applied System Analysis (IIASA) Programme

International Institute for Applied Systems Analysis (IIASA) is an independent non-governmental interdisciplinary research institution headquartered in Laxenburg, Austria. IIASA is sponsored by various scientific organizations from different member countries. India has been a member in IIASA since January 2007 with TIFAC as the Indian National Member Organization (NMO). TIFAC has been entrusted with implementing the 'India-IIASA Programme'. The programme activities are guided by the Indian National Committee of experts, Chaired by Dr Kirit Parikh, Former Member-Planning Commission. India-IIASA Programme focuses on undertaking collaborative research projects among scientists from Indian organizations/academic institutions with IIASA researchers in the areas on mutual interests and organizing training workshops. The Programme also offers opportunities for young Indian researchers to work at IIASA under the 'Young Summer Scientist Programme (YSSP)' and Postdoctoral Programme, which help strengthen their skills in advanced systems analysis and research techniques.

Capacity Building: Since India's membership with IIASA, eleven Indian researchers have participated in the YSSP at IIASA jointly funded by IIASA and TIFAC. In addition, one person is currently working as 'postdoctoral fellow' in IIASA.

Collaborative Studies

- A study on 'Indian Perspectives on Global Energy Scenarios Till 2050' has been completed with Integrated Research and Action for Development (IRADe), New Delhi. The study attempted to identify India's energy mix in long term (2050), expected future energy technologies and investments in the context of climate change.
- Study on 'Analyzing Forest Carbon Accounts for Sustainable Policy Options' has been launched with Indian Institute of Forest Management (IIFM), Bhopal. The study aims to analyze the forestry and related land use policies in terms of their economic & social consequences which have bearing on forestry sector with reference to climate change.

Workshops, Seminars and Meetings

TIFAC had been organizing a series of workshops in collaboration with the Indian institutes & IIASA for knowledge sharing, learning new models & techniques and exchanging ideas on emerging problems among Indian researchers and policy makers. Three workshops were organized in partnership with IIASA during the year.

TIFAC-NIH-IIASA workshop on 'Integrated Water Resources Management Strategy for Water Scarce Bundelkhand Region in India' at National Institute of Hydrology, Roorkee during December 6-7, 2011 to discuss the complexities



and issues involved in the integrated water resource management, and deliberate on the tools and techniques as well as innovative approaches required in developing effective water management solutions in water-scarce Bundelkhand region in India..

TIFAC-IIASA-NEERI five-day workshop on 'Economic Development and Atmospheric Pollution' at National Environmental Engineering Research Institute (NEERI), Nagpur during February 6-10, 2012. The workshop offered insight into the methodology and practical hands-on experience of IIASA's GAINS model so as to analyze and process data for the whole air pollution cycle at national and regional level.

TIFAC-IIASA-IRMA Workshop on 'Adapting Rural Livelihoods to Climate Change' during February 14-15, 2012 at Institute of Rural Management Anand (IRMA) aims to discuss the systems analysis tools to model the climate change adaptation approaches for sustainable livelihoods.

Other Activities with IIASA

- **Presentations by TIFAC officials in Indian institutions** : In order to reach

out to larger network of researchers in targeted Indian institutions for apprising them on the India- IIASA Programme, windows of opportunities available and for improved participation by Indian researchers in the programme, detailed presentations & discussions by TIFAC scientists are being organized in various institutions at dispersed locations in India. Presentation on India-IIASA Programme during 2011-12 was made at **Jadavpur University, Kolkata.**

- The India-IIASA collaboration has resulted in the publication of approximately 50 journal articles or reports & publications on a diverse range of disciplines and issues., primarily on energy, biofuels, emissions (climate change), and forestry. IIASA's broader agenda also generates research of direct relevance to decision makers in India.
- In addition, TIFAC as the Indian NMO has worked with IIASA and its other NMOs to shape IIASA's future by providing input to the development of a new strategic plan (2011 to 2020) that will help IIASA focus its research in the areas of energy and climate change, food and water, and poverty and equity.



6

Human Resources & Infrastructure Development

6.1 Participation in National Training Programmes and Conferences

- Dr, Debabrata Majumder, Sc. 'D', attended a five-day training programme on 'Management & leadership development programme' held from April 18-22, 2011 at Mussoorie.
- Shri Mukesh Mathur participated in a Hindi Workshop and Seminar during April 27- 29, 2011 at Solan
- Sh. Arghya Sardar, Sc. 'D' and Sh. Mukesh Mathur, Sc. 'D' attended a 12-day training programme on 'Policy and General Management Programme ' held from September 5-16, 2011 at MDI campus, Gurgaon
- Ms. Padma Kumari, Assistant II attended 19-day training programme on 'Capacity building for administration' held from September 12-30, 2011 at IIPA
- Sh. Ravinder Kumar, Manager and Sh. S. Basu, Astt. Gr.II attended a three-day training programme on 'Microsoft Access' held from September 28-30, 2011 at ISTM.
- Ms. Mukti Prasad, Sc. 'C' attended a five-day training on 'Marketing Scientific Research & Innovation in international Business' held from November 28 – December 2, 2011 at IIFT
- Dr. Neeraj Saxena, Sc. 'C' attended a five-day training programme on 'Development & Management for Scientist & Technologist' held from December 19-23, 2011 at EDI, Gujarat.
- Mr. Deepak Kumar, Sc. 'C' attended a twelve-day training programme on 'Innovation Management & Technology Valorisation' held from December 12-23, 2011 at ASCI, Hyderabad
- Ms. Sangeeta Nagar, Sc. 'D' and Ms. Swati Sharma, Sc. 'B' attended a five-day training programme on 'Science & Technology for Inclusive Innovation. Role of Women' held from January 3-7, 2012 at KIIT, Bhubaneswar
- Sh. Ujjwal Kumar, Astt. 'I' attended a three-day training programme on 'Cash Accounts, Budget Management & Income Tax Matters' held from January 19-21, 2012 at ITPR, New Delhi
- Sh. Sanjay Sundriyal, Astt. 'II' attended a three-day training programme on 'Personnel Management" by Integrated Training & Policy Management' held from 9-11 February, 2012 at New Delhi
- Ms. Nirmala Kaushik, Sc. 'D' attended a six-day training programme on 'Advances in Bio-technology' held from February 6-11, 2012 at TERI, New Delhi
- Dr. Debabrata Majumder, Sc. 'D' and Dr. Neeraj Saxena, Sc. 'D' attended a five-day



training programme on 'Science, Technology & Governance' held from February 13-17, 2012 at IIPA, New Delhi

- Ms. Swati Sharma, Sc. 'B' attended a training on 'New Technologies & their Implications' held from February 27 – March 2, 2012 at National Institute of Advanced Studies, Bangalore
- Ms. Sujatha R., Sc. 'B' attended a training on 'Managing change in Government Organisations' held from February 27 – March 2, 2012 at IMTR, Goa.
- Shri Mukesh Mathur participated in Training Workshop on Development of Technology Commercialization and Technology Transfer Specialists held during March 24- 26, 2011 at New Delhi.

6.2 Participation in International Conferences, Training Programmes and Seminars

- (i) Sh. Sanjay Singh, Scientist-In-Charge and Adviser, participated in the Program focussed on 'Technology Commercialisation' held from September 6-19, 2011 at University of Texas, Austin, USA
- (ii) Sh. Vipin Shukla, Sc. 'D' participated in 'Indian Show Canada' held from October 17-20, 2011 at Toronto
- (iii) Ms. Sangeeta Bakshi, Sc. 'D' participated in International conference in the 'Journal of European Composites - JEC Asia 2011', held from October 18-19, 2011 at Singapore.

(iv) Ms. Sangeeta Bakshi, Sc. 'D' participated in 'IIASA Governing Council Meeting' held from November 7 -10, 2011 at Austria

(v) TIFAC officials participated in the 'Innovation to Commercialization: TIFAC's Experience' in the VI Annual International Conference of Knowledge Forum on Agglomeration, Technology Clusters and Network held during November 18-20, 2011 at Goa and presented papers on different programmes / activities undertaken by TIFAC

(vi) Sh. Suresh Kumar K., Sc. 'E' , Sh. Pulak Ranjan Basak, Sc. 'E' and Dr. Gautam Goswami, Sc. 'E' attended the two-days conference of '17th Technology Summit & Technology Platform' by CII held in New Delhi, India from November 22-23, 2011.

6.3. Publications

Details of the publications may be seen in Annexure – I.

6.4. E-Resources

TIFAC continued subscribing to E-resources, including Springer Link, Emerald Extra and Web of Knowledge, during the year and online desktop computer access were made available to the scientists. The IMC officials attended important meetings, including the Annual Meeting of the National Knowledge Network Consortium (NKRC) held at Goa in October, 2011, and Scopus interactive meet held at Delhi in March, 2012. Steps were taken to access a wider range of E-resources through the NKRC.



6.5 Implementation of Official Language Policy

The implementation of Official Language Policy under the guidance of Official Language Implementation Committee (OLIC) was continued. Efforts to implement the recommendations made by the Committee of Parliament on Official Language were pursued for implementation. Six Hindi workshops were organized for the benefit of the employees. The Hindi Fortnight (Pakhwada) was organized in association with Department of Science & Technology (DST) in September, 2011 TIFAC employees participated in the 'Pakhwada' in seven different competitions and received certificates and cash prizes.

6.6 TIFAC Library

In order to facilitate and foster the flow of scientific and technical information, TIFAC Library continued to strengthen its holdings. The requirement, as per the changing needs of TIFAC scientists and users, were met by procuring scientific books/reports and journals/serials.

During the year, a total of 40 new scientific, technical books and reports, including publications in Hindi language, were procured, raising the total holding of TIFAC Library to 2,362. In addition, 27 scientific and technical journals and other magazines have been subscribed.



7

National Mission on Bamboo Applications

Bamboo has been a source of livelihood for many years and with advancement in technology, the bamboo and its applications are increasing manifolds in various aspects of life. National Mission on Bamboo Application, a technology mission, initiated during the Tenth Plan under Department of Science and Technology, has been tasked with creating the basis for enlarging the bamboo sector, and with supporting the efforts of the Government of India towards augmenting economic opportunity, income and employment.

Highlights and Achievements at a glance

Disaster Relief



NMBA has been actively involved in almost all reconstruction programmes following natural disasters. 7,000 structures in Andaman And Nicobar after the 2004 tsunami, 100 houses in Kashmir after the earthquake and 60,000 sq ft of space in Leh after the cloud burst have been successfully erected by NMBA.

NMBA has supported 10 community shelters of size 32ft X 20ft with veranda in the Mangan district of Sikkim.

Nandurbar Project

NMBA was approached by the Department of Primary Education, Govt of Maharashtra for construction of 111 engineered bamboo school units including kitchen, toilets, etc. at Nandurbar District. This is a remote, inaccessible area having no road connections. The project is under the Sarva Shiksha Abhiyan scheme. Work has already commenced for 54 units in Phase-I with a total cost of Rs 489 lakhs.

Bamboo Vinegar Oil

NMBA has explored various avenues for development of various applications of bamboo being highly versatile. Bamboo process 'waste' is an excellent source for high grade charcoal and activated car-bon. The by-product produced during the formation of bamboo charcoal is bamboo vinegar.



Bamboo Vinegar

The toxicological study of bamboo vinegar is being done.

Chattisgarh Phase-II Construction



As a part of Mission's objective to promote and disseminate the use of engineered bamboo material, efforts have been made to develop and validate these technologies and link these technologies to public housing and infrastructure technologies.

In the first phase of construction, 276 structures of size 48ft X 20ft have been erected. In the second phase, 168 structures of size 48 ft X 20ft with 6ft veranda have been constructed on request received from Rajiv Gandhi Shiksha Mission.

Bamboo Jointings Projects



NMBA has supported technology for development of bamboo jointing with whole bamboo and using local material for construction of multi-storey houses. This is based on German Technology and the project is being implemented in Arunachal Pradesh.

Delhi Development Authority (DDA)

NMBA has been entrusted by Delhi Development Authority (DDA) to incorporate the latest technology in development of T-joints and use of whole bamboo in the construction of bridges for the beautification of Yamuna project.

Kendriya Vidyalaya Sangathan



Kendriya Vidyalaya Sangathan, Delhi has engaged NMBA in association with Arunachal PWD for the construction of 11(24' x 24' + 6' veranda) prefabricated bamboo structures to be used as classrooms in KVS, Andrews Ganj which have been much appreciated by the concerned authorities.



Delhi University Phase-II



NMBA has been engaged to set up engineered bamboo based structures to be used for various purposes like class room and canteen in various colleges of Delhi University. These have been well received by the university authorities and have created a good response from South Campus, Delhi University visitors. NMBA is now erecting structures of size 28’x20’ & 16’x16’ for Kamla Nehru and Maitreyi and Gargi College, respectively.

Gasification as alternate to thermal energy

NMBA supported establishment of 1.2 MW Bamboo based gasification project to supply electricity to Mendori Village, district Bhopal, Madhya Pradesh through grid. All equipments are installed and commissioned at factory location.

Cold Storage

NMBA has been supporting technologies for structural applications for various altitudes. The structures installed at Leh were made of

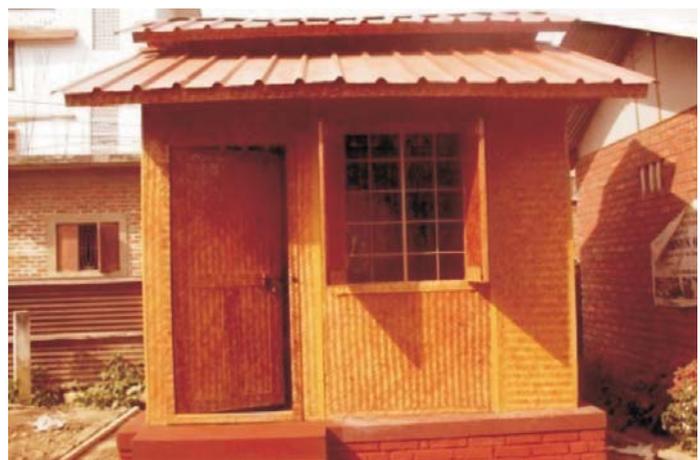
sandwiched walls which lead to decrease in thermal conductivity and hence low rate of heat transfer. Using this concept, NMBA has developed and tested bamboo based cold storages of size 10ft X 20ft X 8ft.

The Mission is demonstrating bamboo based cold storages at various districts of Meghalaya and Haryana built with the specifications of Size 10’ X 20’ X 8’ (BXLXH) made of wall panel sandwich Bamboo Mat Board (8mm)-PUF(100mm) and Chequered Bamboo-Jute composites (10mm) - PUF(50mm) - BMB(8mm). The units are capable to maintain the temperature up to 2° C inside the cold storage. Humidifiers help maintain humidity and Oxygen level in these units.



Cold Storage

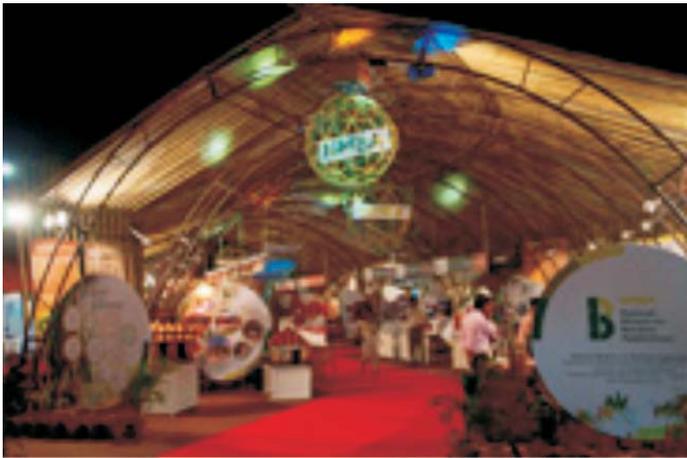
Engineered Bamboo Structures in Manipur



As a part of the major Central Government Programme of improving the infrastructure services of the primary schools in the States,

NMBA supported construction of 1,174 prefabricated structures of size 10 ft X 10 ft to be used as Kitchen-cum-store for the Mid-Day Meal Scheme at various locations in the State of Manipur. The initiative was on the request of the State Government.

India International Trade Fair, 2011



NMBA received **Gold Medal** in the category of Public Sector Undertakings and was adjudged **First for Excellence in Display** during the India International Trade Fair held at Pragati Maidan, New Delhi from 14 – 27 November, 2011. On display were products ranging from low cost rural bamboo housing, engineered bamboo prefab shelters, disaster relief housing, Thermo Plastics, Furniture, charcoal, blinds, Incense sticks, processed bamboo shoots etc.

Quick Erect Shelters

Quick erect shelters have been developed by NMBA supported entrepreneurs for Paramilitary forces. Such shelters can be assembled and dismantled within a day. NMBA has erected 66 such shelters for CRPF at Chhatisgarh, 15 for CRPF at Hyderabad, 10 for



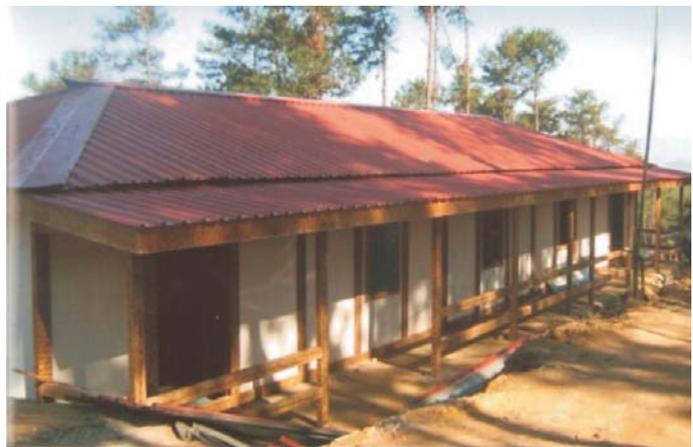
CRPF at Ranchi, 10 for CRPF, Raipur, three for CRPF, Nagpur and nine for ITBP at Shivganga in Tamil Nadu.

Barracks at Srinagar



On receipt of proposal from J&K Police, NMBA has supported construction of barracks of varied sizes for one company of CRPF.

Barracks at Ranchi





With the technology support of NMBA, barracks of size 1280 sqft. have been constructed at Ranchi, Jharkhand, employing pre-engineered bamboo structure single wall of 16 mm thickness. The project funding came from CRPF.

Eco-Tourism Project at Munsyari, Uttarakhand

NMBA jointly with a private tour operator is establishing a new eco-friendly tourism resort using bamboo and other natural material at Munsyari, Uttarakhand.

Alternate products with bamboo shoots

To add value to the bamboo shoots through processing for candies, pickles, chutney, brine cured and dried, a shelf life and standardization study has been conducted through Central Food Technological Research Institute (CFTRI), Mysore. CFTRI has developed and standardized the process conditions for preparation of brine cured slices, sweet chutney, spread, pickle, dehydrated shreds and flavored candy from tender bamboo shoots. Products are tested for proximate composition, minerals, microbial analysis and consumer acceptance test. Storage studies of dehydrated shoots are still in progress.



8

Mission for Geospatial Applications

The Mission Mode project was initiated in 2007 as “Reinvigorating Indian Agriculture through S&T” at a total cost of Rs 4.90 crore for the 11th Plan. Over a period of three years the scope of the project widened to Flood modeling, building 3-D terrain model, development of communication equipments [Software Defined Radios & Wide band Surveillance Receiver]. Keeping in view the expansion the project was renamed as “Mission for Geospatial Applications” and the outlay for 11th Plan was revised to Rs.24.50 crore. Given below the technological innovations and their application made during last four years by the Mission:

(I) Development of three dimensional terrain models- Uses for Infrastructure Planning & Development and operational planning of security agencies: -

Digital elevation models in combination with other spatial and non spatial data are an important database for topography-related analyses or 3D video animations (e.g. fly-throughs). Different geo-referenced 3D products can be derived and complemented by a coordinate system and presented in a 3D perspective view. Geographical information technology and digital image processing has become a rapidly expanding field in recent years with particular significance in the treatment of geo- and image information for operational applications in security and developmental projects. For most applications, digital

elevation models (DEMs) are an important and indispensable tool.

The applications of 3-D Terrain models extends to almost every sphere of govt. activities i.e Agriculture, Archaeology, Cadastre and Land Records, Coastal Management, Defense Mapping, Engineering & Construction, Environmental Monitoring, Forestry, Geospatial, Global Warming, Internal security, Land Cover and Change Detection, Land Development, Mining, Natural Hazards, Oil & Gas Exploration and Development, Pipeline & Transmission Surveys, Sports and Tourism, Wildlife & Marine Conservation.

Mission for Geospatial Applications initiated 3-D modeling with the initiative of MHA. Security agencies in India hitherto were relying on printed maps for their tactical planning and field operations. Non availability of terrain slopes and other relief hindered them from having a better planning. To overcome the shortcoming, Mission for Geospatial Applications, with the initiative of MHA, developed digital elevation models by using Survey of India data and digital topo maps in a GIS Platform for use of Control Rooms of different government agencies dealing with security for better visualization and analysis of terrain, which could be useful in navigation and planning field operations.



Achievements: The Mission has developed 3-D models of the states of Jharkhand, Jammu & Kashmir, Chhattisgarh, Orissa, Bihar, Tripura, Manipur, Nagaland, Meghalaya and Madhya Pradesh. The data developed have been shared with paramilitary forces police like CRPF, BSF, CISF, ITBP, and state Government of Jharkhand, J&K, Meghalaya, Kolkata Police, Tripura Police. Recently the Mission is associated with Government of Nagaland for planning and monitoring of developmental programmes, Government of Manipur and Assam for planning & monitoring of School construction. The Mission is also involved in planning and monitoring of roads under PMGSY for Ministry of Rural Development. During this period this Mission has equipped about 136 units of paramilitary forces with terrain models with operation software.

(II) Flood Modeling and Forecast

Flood modeling is an integral part of flood management. Models are used for planning and design as well as for forecasting floods so that mitigating measures can be taken in time. The Mission had started flood modeling at the request of Gujarat Disaster Management Authority for Tapi basin. The Mission is currently involved in flood modeling of Mahanadi and Krishna basins. This will enable warning and forecasting of flood event with possible damage three days in advance of actual event. Besides forecasting damage assessment as well as investing in flood protection works can be done very accurately. Recognizing Mission's capabilities in flood modeling it has been made a member in the Working

Group for Flood Management in the Planning Commission for the 12th Plan. Recently the Mission is working with Government of Kerala for Meenachil and Manimala rivers. During the Monsoon, the Mission gave a 21 hour forecast on flooding on the Mahanadi. Accuracy was 90 % with weather forecast of 95% using rainfall data from IMD. For the Krishna an impact analysis has been done arising from raising dam height at Amati by 5mtrs. MGA is currently building capacity for flash flood monitoring in Kerala as well as develop an warning system for Mallaperiyar dam.

Water Sensors: The Mission has also developed high accuracy ultrasonic water sensors. Traditional sensors used for measuring water level are installed inside the water which is either being washed away during heavy flooding or sensors got damaged over a short period. Further as these are recorded manually operations in flood situations become difficult. Thus the Mission has developed non contact sensor which will be installed with holding structure at a certain height secured from flooding. These will be fitted with ultrasonic sensors with 5mm-1cm accuracy and battery operated based with solar charging capability. Data transfer can be real time or pre programmed via SMS or GPRS. In field programmability shall allow flexibility to the user. Non contact sensors will not be damaged in flood situation unless the holding structure is washed away. These water sensors are being installed for the Govt of Maharashtra on the Krishna and for Govt. of Orissa on the Mahanadi and Government of Kerala for Meenachil and Manimala rivers.



(III) Cadastral mapping

Cadastral map is a basic component of Land management system in any state. The Mission is experimenting with new technologies for quicker and hassle free cadastral survey. Recently Department of Land Resources, Government of India has tasked this Mission with survey/resurvey of one district each in Haryana and Arunachal Pradesh using above noted technology. Work on Fatehabad district of Haryana is in a progressive stage. Once it becomes successful and meets the standards required; this would be extended to other areas. This technology can be used for North Eastern region to accelerate their Land Management System.

(IV) Tactical Communication Systems -

While engaged in terrain development, it was felt that existing communication systems available to the forces are ill equipped to meet the challenges posed by anti social elements. Often obsolete communication systems failed to provide much needed information leading to loss of life and property. For successful handling of anti insurgency operations in disturbed areas, the Mission planned to put in place a more integrated system i.e to provide a sturdy state of the art communication system providing maximum flexibility in terms of frequency bands and waveforms for practically all services and platforms in secured networks along with high accuracy terrain models for planning and smooth operations. Thus the Mission has successfully developed two communication systems viz. Software Defined Radios and Wideband Surveillance Receiver along with Direction Finders.

Software Defined Radios (SDRs): The software defined radio family is a new generation of high-performance digital radios. It represents a revolutionary change, both technically and economically, in the tactical communications sector. As it is software defined it provides a lot of advantages over the communication instruments currently used. The advantages of SDRs over normal communication systems are - (a) The ability to receive and transmit various modulation methods using a common set of hardware; (b) The ability to alter functionality by downloading and running new software at will; (c) The possibility of adaptively choosing an operating frequency and a mode best suited for prevailing conditions; (d) The opportunity to recognize and avoid interference with other communications channels; e) Elimination of analog hardware and its cost, resulting in simplification of radio architectures and improved performance; and (f) The chance for new experimentation.

With assistance from Department of Science & Technology, 132 SDR sets have been developed and deployed in the headquarters and field locations of CRPF, BSF, CISF, ITBP Jharkhand Police, M.P. Police, Tripura Police & Meghalaya Police. In most of the cases networks have been set up establishing uninterrupted communication between Delhi and North East and far off places. Similarly two Prototype Wide Band Surveillance Receivers have been developed and deployed at BSF headquarters.

The usability and advantages of these sets over systems available in the market have



Annual Report- वार्षिक रिपोर्ट 2011-2012

been certified by the paramilitary forces. These have been tested in the govt laboratories and have been certified to be better than available sets in the market. Because of its success para military forces and various state police have initiated process for inducting these sets in to their networks. CRPF have placed orders with this Mission for eight WBSRs and two

Direction Finders. BSF is in the process of placing orders with the Mission. On the request of Ministry of Defence, Secretary, DST have agreed to provide 20 SDRs sets to them for trial. The sets are under development and shall be provided by January 2012 in consonance with their communication requirements.

Ministry of Finance have done the costing of SDRs and WBSRs.

Funding from DST during 11th Plan

Rupees in crores

Year	Mission's Budget	Grants from Security Technology Innovation
2007-08	0.70	
2008-09	1.25	
2009-10	1.50	7.00
2010-11	3.00	4.65
2011-12	3.00 (till date)*	4.28

*Total budgetary allocation for 2011-12 (R.E) is Rs.5.00 crore.



List of Publications

1. **New Generation Biofuels -Technology & Economic Perspectives** was presented by S Biswas and N Kaushik at the seminar on 'Biomass based Alcohol', organized by the Indian Institute of Chemical Engineers (IChE)-Northern Regional Chapter (NRC) on July 16, 2011 at New Delhi.
2. **Quest for EV Batteries with High Specific Energy;** Auto Tech Review, September 2011 - Arghya Sardar, Sajid Mubashir, Suresh Babu, Mukti Prasad and Suresh Kumar K.
3. **Composites for Indian Railways-TIFAC Initiatives,** Sangeeta Bakshi and S Biswas, published in the International Conference on Composites (JEC 2011), Singapore, October 18-20, 2011.
4. **'Plug-in Hybrid Electric Bus for Public Transport -Benefits and Impacts'** (SAE Paper No. 2011-28-0067), October, 2011- this paper was awarded **"Best Indian Paper on Safe and Smart Mobility"** - Arghya Sardar and Sajid Mubashir,
5. **'Lightweighting of Public Transport Buses in India : An Impact Analysis'** (SAE paper no. 2011-28-0054), October, 2011 – Suresh Babu, Arghya Sardar and Sajid Mubashir.
6. **Technology Innovation in SME's – TIFAC Initiatives in Advanced Composites'**, Sangeeta Bakshi S Biswas, published in the proceedings of VI Annual International Conference of Knowledge Forum on 'Agglomeration, Technology Clusters and Networks', Goa, November 18-20, 2011.
7. **Biotransformation Technologies for Value-Added Products- Indian Experiences,** authored by N Kaushik S Biswas was presented at the International Conference on **New Horizons in Biotechnology** (NHBT-2011), organized by Biotech Research Society of India (BRSI) and National Institute for Interdisciplinary Science Technology (NIIST)/CSIR held at Trivandrum during November 21-24, 2011. The paper was published in the NHBT proceedings.
8. **Permanent Magnets-based Electric-drive Vehicles – Resource Assessment in India;** Auto Tech Review, November 2011 - Sajid Mubashir, Suresh Babu, Arghya Sardar and Suresh Kumar K.
9. **Charging Strategy for Plug-In Electric Vehicles;** Auto Tech Review, January 2012 - Arghya Sardar Sajid Mubashir.
10. **Intelligent Transport Systems Technology, Relevance Development;** Auto Tech Review, February 2012 - Sajid Mubashir Arghya Sardar.
11. **Improving Fuel Efficiency: Technology Trends In Light Weighting;** Auto Tech Review, March 2012 - Suresh Babu Sajid Mubashir.



Auditor's Report

The Members,
Governing Body,
Technology Information, Forecasting & Assessment Council,
New Delhi.

We have audited the attached Balance Sheet of TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC), NEW DELHI as at 31st March, 2012 and the statement of Income & Expenditure Account for the year ended on that date annexed thereto.

These financial statements are the responsibility of the management of the TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC). Our responsibility is to express an opinion on these financial statements based on our audit.

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 misstatement. 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 the management, as well as evaluating the overall presentations of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

Subject to our Audit objections as per **Annexure AR-1** and comments given on significant accounting policies, contingent liabilities and notes on accounts as per schedules 32 & 33, we report that:-

- 1) 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;
- 2) In our opinion proper books of account as required by law have been kept by TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC), so far as appears from our examination of those books;
- 3) The Balance Sheet and statement of Income and Expenditure Account dealt with by this report are in agreement with the books of account;
- 4) In our opinion and to the best of our information and according to the explanations given to us, the said accounts read with the schedules and notes thereto give the information required and give a true and fair view:-
 - a) In case of Balance Sheet, of the state of affairs of the TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC) as at 31st March, 2012; and
 - b) In case of Income & Expenditure Account, of the excess of income over expenditure for the accounting year ended on that date.

For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

Sd/-
Ch. Chandra Sekhar Patro
(Partner)
MRN: 091529

Date: 10-09-2012
Place: New Delhi



**TECHNOLOGY INFORMATION FORECASTING AND ASSESSMENT COUNCIL
STATUTORY AUDIT FOR F/Y 2010-2011**

AUDIT OBJECTIONS - AR 1

1. TIFAC has given financial assistance in the form of Technology Development Assistance (TDA) to various Companies, Partnership firms and other concerns for technology advancement and related objects. As per the TDA sanction document and agreement entered between TIFAC and the beneficiaries, the TDA amount will be repaid by the beneficiaries in installments at specified intervals and according to the terms of the agreement. We have observed that there are many cases where the TDA has not been repaid by the beneficiaries. The project-wise details of the overdue amount are as under:-

Project-wise overdue statement as on 31st March 2012

S. No.	Name of the Projects	Overdue upto Six months	Overdue from more than six months upto 3 years	Overdue more than 3 years	Total
1	Home Grown Technology	900,000	8,047,000	228,098,920	237,045,920
2	Advanced Composite Programme Project	4,160,500	28,885,500	91,734,075	124,780,075
3	Sugar Technology Unit	8,300,000	-	24,120,000	32,420,000
4	Fly Ash Utilization	50,000	-	13,149,000	13,199,000
5	Agriculture and Agro Food Sector	-	-	10,625,000	10,625,000
6	Health Care Equipment	-	-	-	-
7	Targeted Programme in other important Sectors	6,720,000	8,670,000	750,000	16,140,000
8	Textile Machinery	-	-	-	-
9	Road Construction and Transportation	-	-	-	-
	Total	20,130,500	45,602,500	368,476,995	434,209,995

It may also be noted that the above information has been extracted from the memoranda records only as these are not reflected in the accounts owing to the accounting policy being followed of treating the amounts disbursed as expenditure and amounts refunded as incomes. The total outstanding amounts of such repayments that have accumulated over the years have not been reflected in the financial statement of accounts.

2. As per Income Tax Act, 1961 tax is to be deducted either at the time of credit of such sum to the account of the payee, or at the time of payment thereof in cash or by issue of cheque or by any other mode, whichever is earlier. It was observed that TDS has been deducted on payment basis only i.e. at the time when payment has been made to parties.



3. It is observed that TIFAC has been hiring Car services from three Car hiring operators Sansanwal Travels, Yash Tours & Travel and Yatrika Travels for the travelling needs of the officials of TIFAC. The said three car providers provide car services as contractors to TIFAC. Total Car hiring charges for the year amounting to Rs. 15,59,367/- but no TDS has been deducted on the amount paid or credited to the contractors as required under the provisions of Section 194C of Income Tax Act, 1961.
4. Car Hiring services has been taken from M/s Yash Tours and Travel during the year but no contract specifying applicable terms is available at TIFAC for the same.
5. TIFAC has appointed Mr. S.S.L. Gupta as its legal consultant on retainership basis at a monthly fee of Rs. 50,000/- and reimbursement of fixed conveyance charges. TDS has been deducted on the legal fee paid or credited to him u/s 194J (TDS on Professional Services) of Income Tax Act, 1961 and deposited on time, but no formal invoice has been received from Mr. S.S.L. Gupta for legal/professional services provided to TIFAC against which payment has been released.
6. Housekeeping contract for TIFAC has been allotted to M/s Pink Housekeeping for a period of one year i.e. 16th Nov 2010 to 15th Nov 2011 by following the procedure of inviting tenders and selecting the lowest bidder. The agreement has been signed between TIFAC and M/s Pink Housing on 12th Nov 2010 at service charge of Rs. 50,171/- p.m. plus service tax.

The above contract had been extended for a period of 2 months till 15th Jan 2012 awaiting approval.

The above contract has since been renewed on committee recommendations for another period of 1 year on revised service charge of Rs. 59,670/- plus service tax and material cost.

One of the terms in both old and new contract is as follows:

“Security Deposit equal to 10% of the Annual Contract Value (refundable without interest after 2 months of termination of contract) in the form of pay order/demand draft shall be furnished at the time of signing of the agreement.”

Amount of security deposit to be paid by M/s pink Housekeeping	
As per previous Contract	As per new Contract
10% of {Rs. 50,171/- * 12} = Rs. 6,0206/-	10% of {Rs. 59,670/- * 12} = Rs. 71,604/-

Security Deposit Rs. 60,206/- as per previous contract is held by TIFAC, but at the time of entering into new agreement on revised terms the differential amount of Rs. 11,398/- (Rs. 71,604/- less Rs. 60,206/-) has not been received by TIFAC from M/s Pink Housekeeping.

7. TIFAC owns six floors in Viswakarma Bhawan, a building constructed on the IIT land. For the cleanliness of the building, TIFAC has given a contract for housekeeping of the six floors to M/s Pink Housekeeping. Out of the six floors one floor is occupied by NMBA and another by MGA, both of which are being treated as separate accounting entities. It is observed that out of the expenditure incurred on housekeeping which has been borne entirely by TIFAC no allocation has been made to NMBA or MGA for the purposes of arriving at the appropriate utilization of funds in view of their distinct and separate funding. To this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the cases of NMBA and MGA.
8. Similarly the expenses on account of electricity, security services, water and horticulture which has been reimbursed by TIFAC to IIT has not been allocated to NMBA and MGA and, therefore, to this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the cases of NMBA and MGA.



9. TIFAC has granted TDA to various companies incorporated under the Companies Act in the past. But we have observed that the particulars of the security which has been provided to TIFAC against the TDA given to various such companies has not been registered with Registrar of Companies in most of the cases. In the absence of registration of charge, the security furnished by the company would have no value.

10. Observation related to Grant given to Centre for Bio Fuels – NIIST, Trivandrum

Total Project Cost – Rs. 632.10 lacs

Funded by CSIR (a) Rs. 280.00 lacs

and

TIFAC (b) Rs. 352.10 lacs

First installment of Rs. 152.10 lacs out of the above sanctioned amount has been released after signing of the agreement.

2nd installment of Rs. 100 lacs and 3rd installment of Rs. 70 lacs has been released after receiving fund utilization certificates from Centre for Bio Fuels and on recommendation of Monitoring Committee.

We observe that Fund Utilization Certificate received from Centre for Bio Fuels have not been certified by a Chartered Accountant which is required as per the format of Utilisation Certificate in the Form GFR 19 – A. Moreover, the Utilisation Certificate were also undated.

11. Audited financial statements/utilization statements duly certified by Chartered Accountants in respect of grant utilized/released during the year has not yet been received in some cases from the implementing agencies.

12. A sum of Rs.1,05,97,824/- has been paid and booked as expense during the current year while these expenses relates to previous financial years for which no provision had been made in those previous years. Hence the surplus for the current financial year has been reduced to the extent of Rs.1,05,97,824/- on account of expenditure pertaining to the previous years.

13. On the analysis of the schedules forming part of the Balance Sheet of TIFAC and as per the information provided to us the following amounts are outstanding under the head Current Assets, Loans & Advances (schedule 11) since long time which have not been settled so far:-

S. No.	Particulars	Amount (Rs.)
1.	Sail NMPP	19,736.55
2.	Security Deposit : Lease Accommodation	9,500.00
3.	Security Deposit M/s Tata Tele Service Ltd.	16,000.00
	Total	45,236.55

14. A sum of Rs. 50 lacs was deposited by TIFAC on 03.02.2010 for the Assessment year 2005-06 upon denial of exemption by the Assessing Officer under section 10(21) of Income Tax Act. Later on TIFAC had filed appeal before CIT (Appeals) against the order passed by the Assessing Officer. Subsequently the Hon'ble CIT (Appeals) allowed the exemption and passed the order in favour of TIFAC as per Appellate order dated 09.09.2010. Necessary steps have not been taken by TIFAC to obtain the refund of Rs.50 lacs along with applicable interest thereon from the Income Tax Department.

15. TIFAC earmarked Rs.4.5 crore separately from its Current Year income to be released to SIDBI for giving TDA out of the funds so received to organizations identified by SIDBI. Rs. 4.5 crore earmarked for SIDBI is shown as expenditure during the current year and added to the Corpus of TIFAC. As and when this amount is released it will be deducted



from Corpus and paid through Bank. Since this earmarked fund of Rs. 4.5 crore has not been actually released during the current year to SIDBI the expenditure of the current year stands overstated to the extent of Rs. 4.5 crore. Such practice also needs to be examined from the point of view of its treatment under the Income-tax Act. The treatment under the Income-tax Act need also to be examined in the case unspent amount of grants received during the year which are transferred to Corpus/Capital Fund as at the end of the year.

16. As per the information provided to us TIFAC deducts certain amounts at the rate prescribed under the Central Government Health Scheme from the salary of its employees as monthly contribution towards health insurance policy to be taken out by TIFAC from an insurance company. The accumulated amount has to be utilized for the post retirement medical benefits of TIFAC employees. As on 31st March 2012 this accumulated amount stands under the head Current Liabilities at Rs.9,44,950/- against which no policy has been taken so far from any Insurance Company. Hence, there may be a contingent liability for TIFAC which is unascertained over and above the accumulated amount.



TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL
REPLIES TO AUDIT QUERIES “ANNEXURE AR 1”

1. The cases of non-recovery of Technology Development Assistance are being vigorously monitored and pursued with the Companies. Legal action as per provisions of Agreements has been initiated in a number of cases.
2. TDS is deducted from the parties bill at the time of payment and the tax is deposited within 7 days.
3. The point has been noted for future compliance and we have started deducting TDS from the concerned car hiring operators from F.Y 2012- 2013.
4. M/s Yash Tours and Travels was not a car operator as he was having only one car which was hired for a officer in TIFAC who was residing at Dwarka. After the retirement of the officer the car operator's services has been dispensed with.
5. The point has been noted for future compliance. A formal invoice is now called for from Mr. S.S.L.Gupta, Legal Advisor from F.Y 2012-2013.
6. The observation related to difference of security deposit pointed out by the auditors has been intimated to the administration department of TIFAC. Necessary action is now taken up by them for receiving the differential amount of Rs.11,398/- as per the new agreement on revised terms from M/s Pink Housekeeping.
- 7 & 8 As all six floors are owned by TIFAC and cleanliness of the building is the responsibility of TIFAC and housekeeping contract is called for the maintenance of the building by TIFAC and Electricity, Security Services, Water and Horticulture are also the responsibility of TIFAC and as NMBA and MGA are part of TIFAC there is no need for allocation of expenditure even though their accounting is separately maintained.
9. This point will be looked into and concerned divisions will be notified for taking necessary action.
10. The Accounts Officer of NIIST, Travandrum is authorized to certify the Utilization Certificate in the Form GFR 19A. As such the certification of Chartered Accountant is not necessary. The period upto which date the Utilization Certificate is given would be mentioned.
11. Audited financial statement/utilization certificate duly certified by Chartered Accountant for the previous release made by TIFAC is usually received from the implementing agencies only with the request for next instalment.
12. The point has been noted for future compliance.
13. The liabilities pointed out will be paid during the Financial Year 2012-2013.
14. The matter is being pursued with Income Tax office through a Chartered Accountant.
15. The TIFAC-SIDBI Fund set up in Dec 2010 with Core of Rs.30 Crores is to be recouped by releases to SIDBI by TIFAC towards technology development /commercialization projects through recoveries from Technology Development Assistance funded by TIFAC. Repayments received in this financial year to the extent of Rs.4.50 crores is earmarked and taken in expenditure. Disbursement of funds would be done on the recommendations of Project Approval Committee as per the agreement.
16. Medical Scheme is extended to TIFAC staff/ officers on the basis of CGHS Scheme of Central Government as in other organizations for which a nominal amount is deducted from their salary. This amount of Rs.9,44,950/- will be treated as income to TIFAC. A proper approval from the competent authority till be taken to transfer the amount of Rs.9,44,950/- from Current Liabilities and Provisions to Income from Sales / Services (Schedule 12).



Technology Information Forecasting And Assessment Council, (TIFAC) Balance Sheet as on 31.03.2012

(Amount Rs.)

	Schedule	Current Year	Previous Year
CORPUS / CAPITAL FUND AND LIABILITIES			
Corpus / Capital Fund	Schedule 1	235,334,304.64	164,145,078.71
Reserves and Surplus	Schedule 2	-	-
Earmarked / Endowment Funds	Schedule 3	-	-
Secured Loans and Borrowings	Schedule 4	-	-
Unsecured Loans and Borrowings	Schedule 5	-	-
Deferred Credit Liabilities	Schedule 6	-	-
Current Liabilities and Provisions	Schedule 7	36,654,922.99	36,957,018.99
Total		271,989,227.63	201,102,097.70
Assets			
Fixed Assets (Net)	Schedule 8	90,927,811.81	100,896,272.63
Investments-From Earmarked / Endowment Funds	Schedule 9	-	-
Investments-Others	Schedule 10	-	-
Current Assets, Loans, Advances etc.	Schedule 11	181,061,415.82	100,205,825.07
Miscellaneous Expenditure (to the extent not written off or adjusted)			
Total		271,989,227.63	201,102,097.70
Significant Accounting Policies and Notes on Accounts	Schedule 32		
Contingent Liabilities	Schedule 33		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Date : 10.09.2012
Place : New Delhi

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC



**Technology Information Forecasting And Assessment Council, (TIFAC)
Income & Expenditure Account for the Year Ended 31.03.2012**

(Amount Rs.)

Income	Schedule / Annexure	Current Year	Previous Year
Income from Sales / Services	Schedule 12	-	-
Grants / Subsidies	Schedule 13	185,310,000.00	171,399,700.00
Fees / Subscriptions	Schedule 14	3,549.00	6,250.00
Income from Investments	Schedule 15	-	-
Income from Royalty, Publication etc	Schedule 16	159,140.00	196,383.00
Interest Earned	Schedule 17	8,301,408.00	4,609,708.00
Other Income	Schedule 18	397,809.44	74,087.00
Increased/(Decrease) in stock of Finished Goods and Works-in-Progress	Schedule 19	-	-
Refund from Projects	Schedule 20	45,451,377.00	50,984,644.24
Total (A)		239,623,283.44	227,270,772.24
Expenditure			
Establishment & Other Administrative Expenses	Schedule 21	96,844,790.19	79,911,962.00
Expenditure on Grant, Subsidies etc	Schedule 22	109,260,186.50	223,698,735.00
Interest	Schedule 23	-	-
Depreciation (Net Total at the Year end)	Schedule 8	10,804,520.82	11,850,057.53
Total (B)		216,909,497.51	315,460,754.53
Balance being excess of Income over Expenditure (A-B)		22,713,785.93	
Balance being excess of Expenditure over Income (A-B)			88,189,982.29
Transfer to Special Reserve (Specity each)			
Transfer to / from General Reserve			
Balance Being Surplus (Deficit) carried to Corpus/ Capital Fund		22,713,785.93	88,189,982.29
Significant Accounting Policies & Notes on Accounts	Schedule 32		
Contingent Liabilities	Schedule 33		

As per our report of even date Annexed herewith

**For Anil Bhatia & Company
Chartered Accountants**

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Technology Information Forecasting And Assessment Council, (TIFAC)
Patent Facilitating Centre
Income & Expenditure for the year Ended 31.03.2012

(Amount Rs.)

Income	Schedule / Annexure	Current Year	Previous Year
Grants / Subsidies	Schedule 24	15,000,000.00	10,000,000.00
Interest Earned	Schedule 25	308.00	2,713.00
Other Income	Schedule 26	57,774.00	30,100.00
Refund from Projects			
Total (A)		15,058,082.00	10,032,813.00
Expenditure			
Establishment Expenditure / Administrative Expenditure	Schedule 27	7,889,006.00	8,508,852.00
Project Expenditure	Schedule 28	2,147,799.00	2,280,154.00
Total (B)		10,036,805.00	10,789,006.00
Balance being excess of Income over Expenditure (A-B)		5,021,277.00	
Balance being excess of Expenditure over Income (A-B)			756,193.00
Balance being Surplus/Deficit transferred to Corpus / Capital Fund		5,021,277.00	756,193.00

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Technology Information Forecasting And Assessment Council, (TIFAC)
Scholarship for Women Scientists
Income & Expenditure for the year Ended 31.03.2012

(Amount Rs.)

Income	Schedule / Annexure	Current Year	Previous Year
Grants / Subsidies	Schedule 29	-	15,451,000.00
Other Income	Schedule 30	-	-
Refund from Projects			
Total (A)		-	15,451,000.00
Expenditure			
Expenditure	Schedule 31	1,545,837.00	14,289,707.00
Total (B)		1,545,837.00	14,289,707.00
Balance being excess of Income over Expenditure (A-B)			1,161,293.00
Balance being excess of Expenditure over Income (A-B)		1,545,837.00	
Balance being Surplus/Deficit transferred to Corpus / Capital Fund		1,545,837.00	1,161,293.00

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Technology Information Forecasting And Assessment Council, (TIFAC) Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 1 - Corpus / Capital Fund

(Amount Rs.)

	TIFAC	Patent Facilitating Centre	Scholarship for Women Scientists	Current Year	Previous Year
Opening Balance	163,352,399.39	511,573.32	281,106.00	114,145,078.71	200,517,116.19
Opening Balance related to SIDBI Earmarked for Release (Revolving Fund)	-	-	-	50,000,000.00	-
Earmarked for Release to SIDBI (Revolving Fund)	45,000,000.00	-	-	45,000,000.00	50,000,000.00
Excess of Income over Expenditure	22,713,785.93	5,021,277.00	-	27,735,062.93	1,161,293.00
Year Adjustments		-	-	-	1,412,844.81
Total	231,066,185.32	5,532,850.32	281,106.00	236,880,141.64	253,091,254.00
Excess of Expenditure over Income		-	1,545,837.00	1,545,837.00	88,946,175.29
Year Adjustments	-	-	-	-	-
Total	-	-	1,545,837.00	1,545,837.00	88,946,175.29
Closing Balance	231,066,185.32	5,532,850.32	(1,264,731.00)	235,334,304.64	164,145,078.71



**Technology Information Forecasting And Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 2 - Reserve and Surplus

(Amount Rs.)

	Current Year	Previous Year
1. Capital Reserves :		
As Per Last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
2. Revaluation Reserves :		
As Per Last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
3. Special Reserve :		
As Per Last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
4. General Reserve :		
As Per Last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
Total	0.00	0.00



Technology Information Forecasting And Assessment Council, (TIFAC) Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 3 - Earmarked/Endowment Funds

(Amount Rs.)

	Current Year	Previous Year
a) Opening Balance of the Funds	0.00	0.00
b) Additions to the funds		
i) Donations / Grants	0.00	0.00
ii) Income from Investments made on account of Funds	0.00	0.00
iii) Other Additions (Specify)	0.00	0.00
Total (a+b)	0.00	0.00
c) Utilization / Expenditure towards objectives of funds		
i) Capital Expenditure	0.00	0.00
Fixed Assets	0.00	0.00
Other Additions (Specify)	0.00	0.00
ii) Revenue Expenditure		
Salary, Wages and allowance etc	0.00	0.00
Rent	0.00	0.00
Other Administrative Expenditure	0.00	0.00
Total c)	0.00	0.00
Net Balance as at the year end (a+b+c)	0.00	0.00

Note : 1 Disclosures shall be made under relevant heads based on conditions attached to the Grants

Note : 2) Plan Funds received from Central / State Governments are to be shown as separate Funds and not to be mixed up with any other funds



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 4 - Secured Loans and Borrowings

(Amount Rs.)

	Current Year	Previous Year
1. Central Government	0.00	0.00
2. State Government (Specify)	0.00	0.00
3. Financial Institutions		
a) Term Loans	0.00	0.00
b) Interest accrued and dues	0.00	0.00
4. Banks :		
a) Term Loans	0.00	0.00
Interest accrued and due	0.00	0.00
b) Other Loans (Specify)	0.00	0.00
Interest accrued and due	0.00	0.00
5. Other Institutions and Agencies	0.00	0.00
6. Debentures and Bonds	0.00	0.00
7. Others (Specify)	0.00	0.00
Total	0.00	0.00

Note : Amounts due within one year



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 5 - Unsecured Loans and Borrowings

(Amount Rs.)

	Current Year	Previous Year
1. Central Government	0.00	0.00
2. State Government (Specify)	0.00	0.00
3. Financial Institutions		
4. Banks :		
a) Term Loans	0.00	0.00
b) Other Loans (Specify)	0.00	0.00
5. Other Institutions and Agencies	0.00	0.00
6. Debentures and Bonds	0.00	0.00
7. Fixed Deposites		
8. Others (Specify)	0.00	0.00
Total	0.00	0.00

Note : Amounts due within one year

Schedule 6 - Deferred Credit Liabilities

(Amount Rs.)

	Current Year	Previous Year
a) Acceptances secured by Hypothecation of Capital Equipment and other assets	0.00	0.00
b) Others	0.00	0.00
Total	0.00	0.00

Note : Amounts due within one year



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 7 - Current Liabilities And Provisions

(Amount Rs.)

	Current Year	Previous Year
A) Current Liabilities	-	-
1. Acceptances	-	-
2. Sundry Creditors		
a) For Goods	-	-
b) Others- M/s Daikin Airconditioning India Pvt. Ltd	157,294.00	154,645.00
3. Advances Received	-	-
4. Interest accrued but not due on :		
a) Secured Loans / Borrowings	-	-
b) UnSecured Loans / Borrowings	-	-
5. Statutory Liabilities		
a) Over Due	-	-
b) Others : TDS Payable (Sub Total (B) of Annexure -12)	201,512.00	183,079.00
6. Other Current Liabilities		
Salary Payable (Prof. Ganapathy)	1,800.00	1,800.00
Stale Cheque	2,206,790.06	2,057,373.06
Expenses Payable (Sub Total (A) of Annexure - 12)	3,525,114.00	4,678,535.00
Project ICOSER (As per Annexure -13)	13,202,152.00	13,202,152.00
Indian Myanmar S&T Friendship library in yangon (Annex-14)	959,659.00	959,659.00
MSEB-Ash Utilization / Management (Annex-15)	600,094.00	600,094.00
FAM Large Scale Stowing of HWP Pond Ash into the Underground Mines of SCCL (M) Manugure (Annex-16)	8,294,830.00	8,294,830.00
Earth Quake Serving Nature's Fury (Annex-17)	165,157.00	165,157.00
DRDO-PFC (Annex-18)	395,745.00	78,575.00
CPF	294,811.00	321,591.00
MPSEB use of Fly Ash in Agriculture Development Thermal Power Plants, Sarni (Annex-20)	356,825.00	356,825.00
Total (i)	30,361,783.06	31,054,315.06

**Schedule 7 - Current Liabilities And Provisions**

(Amount Rs.)

	Current Year	Previous Year
Medical Scheme	944,950.00	685,000.00
M/S Sonu Printing Press	60,784.00	-
Training Programme on IPR and WTO Issues for Scientists/ Technologists Working in Government Sector.	147,452.00	177,750.00
TIFAC-World Bank Project (Annex-21)	1,339,747.93	1,339,747.93
7. Security Deposit		
Earnest Money : M/s Nimbus Harbour Pvt Ltd	20,000.00	20,000.00
Earnest Money from Sugar Factories (Annex 19)	3,600,000.00	3,600,000.00
Earnest Money : M/s Sansanwal Travels	60,000.00	10,000.00
Earnest Money : M/s Yatrika Travels	60,000.00	10,000.00
Security Deposite : M/s Pink House Keeping	60,206.00	60,206.00
Total (ii)	6,293,139.93	5,902,703.93
Total (i)+ (ii) = (A)	36,654,922.99	36,957,018.99
B. Provision	-	-
1. For Taxation	-	-
2. Gratuity	-	-
3. Superannuation / Pension	-	-
4. Accumulated Leave Encashment	-	-
5. Trade Warranties / Claims	-	-
6. Others (Specify)	-	-
Total (B)	-	-
Total (A+B)	36,654,922.99	36,957,018.99

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 8-Fixed Assets

Amount - Rs)

	GROSS BLOCK				DEPRECIATION			NET BLOCK		
	Rate of Depreciation	Cost / valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost / valuation at the year end	As at the beginning of the year	On during the year	Total upto the year end	As at the current year end	As at the previous year end
A. FIXED ASSETS										
1. LAND										
a) Freehold		-	-	-	-	-	-	-	-	-
b) Leasehold		-	-	-	-	-	-	-	-	-
2. BUILDING										
a) On Freehold Land		-	-	-	-	-	-	-	-	-
b) On Leasehold Land		-	-	-	-	-	-	-	-	-
c) Ownership Flats/Premises		-	-	-	-	-	-	-	-	-
d) Superstructures on Land not belonging to the entity	10%	117,850,000.00	-	-	117,850,000.00	61,482,710.94	5,636,728.97	67,119,439.91	50,750,560.69	56,367,289.66
e) Interior work of TIFAC Building	10%	51,894,907.00	130,650.00	-	52,025,557.00	13,623,902.94	3,840,115.48	17,464,017.82	34,561,539.18	38,271,004.66
3. PLANT MACHINERY & EQUIPMENT : Fire Alarm System at TIFAC Building & Fire Extinguishers	15%	1,050,258.00	-	-	1,050,258.00	250,272.56	119,997.82	370,270.38	679,987.62	799,985.44
4. VEHICLES		-	-	-	-	-	-	-	-	-
5. FURNITURE & FIXTURES	10%	1,826,769.60	-	33,917.00	1,792,852.60	1,299,747.61	52,702.20	1,352,449.81	440,402.79	527,021.99
6. OFFICE EQUIPMENT	15%	22,105,005.58	639,498.00	3,127.00	22,741,376.58	17,773,060.81	736,287.05	18,509,347.86	4,282,028.72	4,331,944.77
7. COMPUTER/PERIPHERALS	60%	5,720,741.28	102,956.00	-	5,823,697.28	5,128,335.67	412,068.80	5,540,404.47	283,292.81	592,405.61
8. ELECTRIC INSTALLATIONS		-	-	-	-	-	-	-	-	-
9. LIBRARY BOOKS	100%	5,501,013.55	-	-	5,501,013.55	5,494,393.05	6,620.50	5,501,013.55	-	6,620.50
10. TUBEWELL & W.SUPPLY		-	-	-	-	-	-	-	-	-
11. OTHER FIXED ASSETS		-	-	-	-	-	-	-	-	-
TOTAL OF CURRENT YEAR		205,948,695.01	873,104.00	37,044.00	206,754,755.01	105,052,422.38	10,804,520.82	115,856,943.20	90,927,811.81	100,896,272.63
PREVIOUS YEAR		203,839,878.20	2,108,816.81	-	205,948,695.01	93,202,364.85	11,850,057.53	105,052,422.38	100,896,272.63	110,637,513.35
B. CAPITAL WORK IN PROGRESS										



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 9 - Investments from Earmarked/Endowment Funds

(Amount Rs.)

	Current Year	Previous Year
1. In Government Securities	0.00	0.00
2. Other approved Securities	0.00	0.00
3. Shares	0.00	0.00
4. Debentures and Bonds	0.00	0.00
5. Subsidiaries and Joint Ventures	0.00	0.00
6. Others (to be Specified)	0.00	0.00
Total	0.00	0.00

Schedule 10 - Investments - Others

(Amount Rs.)

	Current Year	Previous Year
1. In Government Securities	0.00	0.00
2. Other approved Securities	0.00	0.00
3. Shares	0.00	0.00
4. Debentures and Bonds	0.00	0.00
5. Subsidiaries and Joint Ventures	0.00	0.00
6. Others (to be Specified)	0.00	0.00
Total	0.00	0.00



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 11 - Current Assets, Loans, Advances Etc

(Amount Rs.)

	Current Year		Previous Year	
A) Current Assets				
1. Inventories :				
a) Stores and Spares		-		-
b) Loose Tools		-		-
c) Stock-in-Trade				
Finished Goods		-		-
Work-in-Progress		-		-
Raw Material		-		-
2. Sundry Debtors :				
a) Debts outstanding for a period exceeding six months		-		-
b) others		-		-
3. Cash Balances in Hand (including Cheques / Drafts and Imprest)		3,681.00		5,304.00
4. Bank Balances :				
a) With Scheduled Banks : (Union Bank of India)				
On Current Accounts		-		-
On Deposit Accounts (Short Term Deposites) (Annex-11)		65,500,000.00		-
Accrued Interest (Accrued Interest) (Annexure 11)		4,358,718.00		-
On Savings Accounts	102,786,894.27	172,645,612.27	89,877,934.52	89,877,934.52
b) With non-Scheduled Banks :				
On Current Accounts		-		-
On Deposit Accounts		-		-
On Savings Accounts		-		-
5. Post Office - Savings Accounts		-		-
Total (A)		172,649,293.27		89,883,238.52



(Amount Rs.)

	Current Year		Previous Year	
B) Loans, Advances and Other Assets :-				
1. Loans:				
a) Staff Loan (Annex-1)		2,438,867.00		2,832,599.00
b) Other entities engaged in activities/objectives similar to that		-		-
c) Others		-		-
2. Advances and other amounts recoverable in cash or in kind or for value to be received:				
a) On Capital Account		-		-
b) Prepayments				
Advance Franking Machine	6,691.00		8,214.00	
Advance : Sardar Patel Institute of Economic and Social Research, Ahmadabad	-		250,000.00	
Advance : DAVP	41,554.00		42,822.00	
Advance : Acharya Vinaba Bhawe	150,000.00		-	
Advance : IIT-Delhi	-	198,245.00	57,500.00	358,536.00
c) Others				
SAIL NMPP	19,736.55		19,736.55	
Sundry Debtor : DST (IITF)	270,000.00		1,462,500.00	
Security Deposit Lease Accommodation	9,500.00		9,500.00	
Security Deposit MTNL	43,937.00		52,666.00	
Security Deposit Tata Teleservices Ltd	16,000.00		16,000.00	
Security Deposit :Rent Ms. Ititka Singal	-		50,000.00	
Security Deposit : Mrs. Prem Lata Vyas	-		105,000.00	
Security Deposit : DST (IITF)	74,520.00		74,520.00	
GSLIS	-	433,693.55	212.00	1,790,134.55
Total (i)		3,070,805.55		4,981,269.55
3. Income Accrued:				
a) On Investments from Earmarked/ Endowment Funds		-		-
b) On Investment – Others		-		-
c) On Loans and Advances		-		-
d) Others (includes income due unrealized)		-		-
4. Claim Receivable				
TDS :CPF (FDR) UBI,SDA	321,591.00		321,591.00	
TDS (FDR) Sarita Vihar, New Delhi	19,726.00		19,726.00	
Income Tax for the F.Y 2004-2005	5,000,000.00	5,341,317.00	5,000,000.00	5,341,317.00
Total (ii)		5,341,317.00		5,341,317.00
Total (i) +(ii) = (B)		8,412,122.55		10,322,586.55
Total (A) + (B)		181,061,415.82		100,205,825.07



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Income & Expenditure as at 31.03.2012

Schedule 12 - Income From Sales / Services

(Amount Rs.)

	Current Year	Previous Year
1. Income from Sales		
a) Sale of finished Goods	0.00	0.00
b) Sale of Row Material	0.00	0.00
c) Sale of Scraps	0.00	0.00
2. Income from Services		
a) Labour and Processing Charges	0.00	0.00
b) Professional / Consultancy Services	0.00	0.00
c) Agency Commissions and Brokerages	0.00	0.00
d) Maintenance Services (Equipment/Property)	0.00	0.00
e) Others (Specify)	0.00	0.00
Total	0.00	0.00

Schedule 13 - Grants / Subsidies (TIFAC Regular)

(Amount Rs.)

	Current Year	Previous Year
1. From Central Government		
A) TIFAC Grant		
a) Grants in Aid (Plan)	139,710,000.00	170,699,700.00
b) Grant in Aid (Non-Plan)	600,000.00	700,000.00
c) Grant in Aid (Plan) Capital Assets	45,000,000.00	-
d) Grant in Aid (Vision 2020)	-	-
e) Grant in Aid (Vision 2035)	-	-
2. State Governmetn(s)	-	-
3. Governmetn Agencies	-	-
4. Institutions Organisatins	-	-
5. International Organisations	-	-
6. Other (Specify)	-	-
Total	185,310,000.00	171,399,700.00



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) Schedules Forming Part of Income & Expenditure as at 31.03.2012

Schedule 14 - Fees / Subscriptions

(Amount Rs.)

	Current Year	Previous Year
1. Entrance Fees	0.00	0.00
2. Annual Fees / Subscriptions	0.00	0.00
3. Seminar / Program Fees	0.00	0.00
4. Consultancy Fee	0.00	0.00
5. Others (Specify)	0.00	0.00
RTIA Questions	1,049.00	250.00
Tender for Car Hiring	2,500.00	0.00
Tender for Housekeeping at TIFAC	0.00	6,000.00
Total	3,549.00	6,250.00

Schedule 15 - Income From Investments (Income on Invest. From Earmarked/Endowment Funds transferred to Funds)

(Amount Rs.)

Particulars	Investment from Earmarked Funds		Investment from Earmarked Funds	
	Current Year		Previous Year	
1. Interest				
a) On Govt. Securities	0.00	0.00	0.00	0.00
b) Other Bonds/Debentures	0.00	0.00	0.00	0.00
2. Dividends				
a) On shares	0.00	0.00	0.00	0.00
b) On Mutual Fund Securities	0.00	0.00	0.00	0.00
3. Rents				
4. Others (Specify)	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00



**Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Income & Expenditure as at 31.03.2011**

Schedule 16 - Income from Royalty, Publication Etc.

(Amount Rs.)

	Current Year	Previous Year
Income from Publications	159,140.00	196,383.00
Total	159,140.00	196,383.00

Schedule 17 - Interest Earned (Regular)

(Amount Rs.)

	Current Year	Previous Year
1. On Term Deposits		
a) With Scheduled Banks	4,358,718.00	1,088,928.00
b) With Non-Scheduled Banks	-	-
c) With Institutions	-	-
d) Others	-	-
2. On Savings Accounts		
a) With Scheduled Banks	3,775,695.00	3,509,942.00
b) With Non-Scheduled Banks	-	-
c) Post Office Savings Accounts	-	-
d) Others (Project Interest)	-	-
3. On Loans :		
a) Employees / Staff (LTA, Scooter & Car)	13,803.00	10,838.00
b) Others		
House Building Advance	153,192.00	-
4. Interest on Debtors and Other Receivables	-	-
Total	8,301,408.00	4,609,708.00

Note : Tax deducted at source to be indicated



Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) Schedules Forming Part of Income & Expenditure as at 31.03.2012

Schedule 18 - Other Income

(Amount Rs.)

	Current Year	Previous Year
1. Profit on sale / disposal of Assets		
Owned assets		0.00
Assets acquired out of grants, or received free of cost		0.00
2. Export Incentives realized		0.00
3. Fees for Miscellaneous Services		0.00
4. Miscellaneous Income		
Other Receipts (Computers)	-	2,100.00
Bank Charges	5,176.44	-
Other Receipts	392,633.00	22,549.00
Leave Salary & Pension Contribution	-	49,438.00
Total	397,809.44	74,087.00

Schedule 19 - Increase / (Decrease) in stock of Finished Goods & Work in Progress

(Amount Rs.)

	Current Year	Previous Year
a) Closing Stock		
Finished Goods	0.00	0.00
Work-in-Progress	0.00	0.00
b) Less : Opening Stock		
Finished Goods	0.00	0.00
Work-in-Progress	0.00	0.00
Total	0.00	0.00



**Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Income & Expenditure as at 31.03.2012**

Schedule 20 - Refund from Projects, (TIFAC Regular Account)

(Amount Rs.)

	Current Year	Previous Year
Home Grown Technology (Annex-2)	4,605,000.00	13,665,000.00
Advanced Composites Programme (Annex-2)	20,945,700.00	17,970,464.00
Sugar Technology Mission (Annex-2)	8,300,000.00	9,236,046.00
TePP Project (Annex-2)	71,529.00	251,699.00
Fly Ash Utilisation Programme (Annex-2)	50,000.00	100,000.00
Refund from Projects (Vision 2020) (Annex 2)	11,479,148.00	9,761,435.24
Total	45,451,377.00	50,984,644.24

Schedule 21 -

(Amount Rs.)

	Current Year	Previous Year
Establishment Expenditure (TIFAC Regular) (Annex 3)	44,872,887.00	42,799,931.00
Administrative Expenses (TIFAC Regular) (Annex 4)	41,602,046.19	28,240,694.00
Establishment & Administrative Expenditure (Vision 2020)(Annex-6)	10,369,857.00	8,871,337.00
Total	96,844,790.19	79,911,962.00

Schedule 22 - Establishment on Grant, Syubsidies Etc.

(Amount Rs.)

	Current Year	Previous Year
Grants given to Institutions/Organisations		
Project Expenditure (TIFAC Regular) (Annex - 5)	69,169,740.50	175,972,101.00
Project Expenditure (Vision 2020)(Annex-6A)	36,667,277.00	47,384,008.00
Project Expenditure (Vision 2035) (Annex-7)	3,423,169.00	342,626.00
Total	109,260,186.50	223,698,735.00



**Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Income & Expenditure as at 31.03.2012**

Schedule 23 - Interest

(Amount Rs.)

	Current Year	Previous Year
a) On Fixed Loans (Including Bank Charges)	0.00	0.00
b) On Other Loans (Including Bank Charges)	0.00	0.00
c) Others (Specify)	0.00	0.00
Total	000.00	0.00



**Technology Information Forecasting And Assessment Council, (TIFAC)
Patent Facilitating Centre
Schedules Forming Part of Income & Expenditure for the year ended 31.03.2012**

Schedule 24 - Grants / Subsidies (Patent Facilitating Centre) (Irrevocable Grants & Subsidies Received)

(Amount Rs.)

	Current Year	Previous Year
1. From Central Government		
2. Patent Facilitating Centre Grants		
a) Grants in Aid (Plan)	15,000,000.00	10,000,000.00
b) Grant in Aid (Non-Plan)	0.00	0.00
3. State Governmetn(s)	0.00	0.00
4. Governmetn Agencies	0.00	0.00
5. Institutions Organisatins	0.00	0.00
6. International Organisations	0.00	0.00
7. Other (Specify)	0.00	0.00
Total	15,000,000.00	10,000,000.00

Schedule 25 - Interest Earned (Patent Facilitating Centre)

(Amount Rs.)

	Current Year	Previous Year
1. On Term Deposits		
a) With Scheduled Banks	0.00	0.00
b) With Non-Scheduled Banks	0.00	0.00
c) With Institutions	0.00	0.00
d) Others (Interest : Scooter LTA & Car Adv.)	308.00	2713.00
Total	308.00	2713.00
Note : Tax Deducted at Source to be indicated		



**Technology Information Forecasting And Assessment Council, (TIFAC)
Patent Facilitating Centre
Schedules Forming Part of Income & Expenditure for the year ended 31.03.2010**

Schedule 26

(Amount Rs.)

	Current Year	Previous Year
Other Income (Annex-8)	57,774.00	30,100.00
Total	57,774.00	30,100.00

Schedule 27

(Amount Rs.)

	Current Year	Previous Year
Establishment & Administrative Expenditure (Annex-9)	7,889,006.00	85,088,52.00
Total	7,889,006.00	85,088,52.00

Schedule 28

(Amount Rs.)

	Current Year	Previous Year
Project Expenditure (Annex-10)	2,147,799.00	2,280,154.00
Total	2,147,799.00	2,280,154.00



**Technology Information Forecasting And Assessment Council, (TIFAC)
Scholarship For Women Scientists
Schedules Forming Part of Income & Expenditure for the year ended 31.03.2012**

Schedule 29 - Grants / Subsidies (Scholarship for Women Scientists) (Irrevocable Grants & Subsidies Received)

(Amount Rs.)

	Current Year	Previous Year
From Central Government		
Scholarship for Women Scientists Grants		
Grants in Aid (Plan)	0.00	15,451,000.00
Grant in Aid (Non-Plan)	0.00	0.00
State Governmetn(s)	0.00	0.00
Governmetn Agencies	0.00	0.00
Institutions Organisatins	0.00	0.00
International Organisations	0.00	0.00
Other (Specify)	0.00	0.00
Total	0.00	15,451,000.00

Schedule 30 - Interest Earned (Scholarship for Women Scientists)

(Amount Rs.)

	Current Year	Previous Year
Other Income	0.00	0.00
Total	0.00	0.00



Technology Information Forecasting And Assessment Council, (TIFAC)
Scholarship For Women Scientists
Schedules Forming Part of Income & Expenditure for the year ended 31.03.2011

Schedule 31

(Amount Rs.)

	Current Year	Previous Year
Expenditure on Scholarship for Women Scientist	1,545,837.00	14,289,707.00
Total	1,545,837.00	14,289,707.00



Technology Information, Forecasting & Assessment Council
Schedules Forming Part of Accounts for the period ended 31.03.2012

Schedule - 32

SIGNIFICANT ACCOUNTING POLICIES

1. The council has adopted the Hybrid System of accounting i.e. combination of Cash Basis and Accrual Basis accounting.
2. Fixed assets are stated at cost less accumulated depreciation. Cost comprises the purchase price and any attributable cost of bringing the asset to its working condition for its intended use.
3. Depreciation on fixed assets is computed on the written down value (WDV) method at the rates and in the manner prescribed under the Provisions of Income Tax Act.
4. Prior period expenditure, extra-ordinary items and changes in accounting policies having material impact on the financial statements of the council are required to be disclosed.
5. (a) Amounts released under various projects are accounted for as expenditure for the year in which the same are released, irrespective of the fact that the amounts so released may not have been fully utilized towards the projects during the year.
(b) Amounts earmarked for disbursement by SIDBI are accounted for as expenditure for the year in which the same are earmarked, irrespective of the fact that the amounts so earmarked may not have been fully released to SIDBI during the year. Any funds so earmarked but not released are carried over to the Corpus Fund as at the end of the financial year.
6. Unspent amount of grant received during the year has been transferred to Corpus/Capital Fund.
7. The repayment of grant/assistance to TIFAC by the beneficiaries as per the conditions stated in the agreement is accounted for on receipt (cash) basis.
8. All disbursements (irrespective of its utilization) for projects are treated as expenditure during the Financial Year and assets if any created/purchased by the beneficiaries, out of the said disbursements to the project, are not accounted for as assets in the books of accounts.
9. Stale Cheques issued by TIFAC amounting to Rs. 22,06,790.06 have been outstanding under the head Current Liabilities as on 31st March 2012 and the last year balance for the same is Rs.20,57,373.06.
10. Contingent liabilities in respect of on-going projects/studies etc. are neither provided for nor determined.
11. Total expenditure is not bifurcated into plan and non-plan expenditure in the financial statements.

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Technology Information, Forecasting & Assessment Council
Schedules Forming Part of Accounts for the period ended 31.03.2012

SCHEDULE 33 - CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

1. CONTINGENT LIABILITIES

1.1 Claims against the Entity not acknowledge as debts **Rs. NIL** (Previous year **Rs. NIL**)

1.2 In respect of

- Bank Guarantees given by/on behalf of the Entity **Rs. NIL** (Previous year **Rs. NIL**)
- Letters of Credit opened by Bank on behalf of the Entity **Rs. NIL** (Previous year **Rs. NIL**)
- Bills discounted with banks **Rs. NIL** (Previous year **Rs. NIL**)

1.3 Disputed demands in respect of:

- Income tax **Rs. NIL** (Previous year **Rs. NIL**)
- Sales Tax **Rs. NIL** (Previous year **Rs. NIL**)
- Municipal Taxes **Rs. NIL** (Previous year **Rs. NIL**)
- In respect of claims from parties for non-execution of orders, but contested by the Entity **Rs. NIL** (Previous year **Rs. NIL**)

2. CAPITAL COMMITMENTS

- Estimated value of contracts remaining to be executed on capital account and not provided for (net of advances) **Rs. NIL** (Previous year **Rs. NIL**)

3. LEASE OBLIGATIONS

- Future obligations for rentals under finance lease arrangements for plant and machinery amount to **Rs. NIL** (Previous year **Rs. NIL**)

4. CURRENT ASSETS, LOANS AND ADVANCES

- In the opinion of the Management, the current assets, loans and advances have a value on realization in the ordinary course of business, at least equal to the amount at which they are stated in the Balance Sheet.

5. TAXATION

- In view of there being no taxable income under Income tax Act, 1961 no provision for Income Tax has been considered necessary.



Technology Information, Forecasting & Assessment Council
Schedules Forming Part of Accounts for the period ended 31.03.2012

SCHEDULE 33 – CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS Contd.

6. FOREIGN CURRENCY TRANSACTIONS	(Amount Rs.)	
	Current Year	Previous Year
6.1. Value of Imports Calculated on C.I.F. Basis:		
- Purchase of finished Goods	Nil	Nil
- Raw Materials & Components (Including in transit)	Nil	Nil
- Capital Goods	Nil	Nil
- Stores, Spares and Consumables	Nil	Nil
6.2. Expenditure in foreign currency:		
a) Travel	Rs. 3,68,238/-	Rs. 5,24,261/-
b) Remittances and Interest payment to Financial Institutions/ Banks in Foreign Currency	Nil	Nil
c) Other expenditure:		
- Commission on Sale	Nil	Nil
- Legal and Professional Expenses	Nil	Nil
- Miscellaneous Expenses	Nil	Nil
6.3. Earnings:		
Value of Exports on FO basis	Nil	Nil
6.4. Remuneration to auditors:		
- Auditors Fee	46,967.00	41,914.00
- Taxation matters	Nil	Nil
- For Management services	Nil	Nil
- For certificate	Nil	Nil
Others	Nil	Nil



1. The details of Liabilities outstanding for a period more than 5 years which is shown under Current Liabilities (Schedule 7).

S. No.	Particulars - Current Liabilities (Schedule 7)	Amount (Rs.)
1.	Salary Payable (Prof. Ganpathy)	1,800.00
2.	Project (ICOSER)	1,32,02,152.00
3.	Indian-Mayanmar S & T Friendship Library in Yangoon	9,59,659.00
4.	MSEB-Ash Utilisation/ Management	6,00,094.00
5.	FAM Large Scale Stowing of HWP Pond Ash into the Underground Mines of SCCL (M) Manugure	82,94,830.00
6.	Earth Quake Serving Nature's Fury	1,65,157.00
7.	MPSEB use of Fly Ash in Agriculture Development Thermal Power Plants, Sarni	3,56,825.00
8.	TIFAC-World Bank Project	13,39,747.93
	Total	2,49,20,264.93

8. Stock of Publications and Studies, which are published and printed by the Council and distributed at a cost are not accounted for as Stock in hand at the end of the year.
9. There is no query/note by Parliament/Department of Science and Technology outstanding in respect of previous audited accounts of TIFAC.
10. Liability towards gratuity payable on death/retirement of employees is not provided for.
11. Provision for accumulated leave encashment benefit to employees is not being made since it shall be accounted for on cash basis.
12. A sum of Rs. 9,44,950/- has been accumulated towards post retirement medical benefits of TIFAC employees, pending framing of the necessary scheme and taking out of group insurance policy to cover the liability.
13. Grant from DST is received for TIFAC activities and no separate grant is received for Vision activities so all the receipts and expenditure incurred for the purpose of Vision activities have been merged with TIFAC regular Income and Expenditure.
14. A sum of Rs.1,05,97,824/- has been paid and booked as expense during the current year while these expenses relates to previous financial years for which no provision had been made in those previous years.
15. Previous year's figures have been regrouped/rearranged wherever found necessary, to make them comparable with current year figures.
16. Schedules 1 to 33 are annexed to and form an integral part of the Balance Sheet as at 31.03.2012 and the Income and Expenditure Account for the year ended on that date.

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Staff Advances

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Staff Advances		
Sh. Bipin Kumar	500.00	3,500.00
Anil Kumar Rai	-	6,000.00
Sh.Surender Kumar	4,000.00	5,000.00
Ms.Uma Daral	3,000.00	-
Sh.Aneesh S	6,000.00	1,000.00
Sh. Bishram Bhakta	-	7,000.00
Sh.Ravinder Kumar (Manager)	4,000.00	10,000.00
Sh.Sanjay Sundriyal	7,000.00	-
Sh.Deep Prakash	-	2,500.00
Sh.Pankaj Sundriyal	9,000.00	5,000.00
Ms.Asha Kumari	-	10,000.00
Ms.Padma Manral	3,000.00	-
Ms.Kunwar Singh	5,000.00	-
Sh.Suresh Babu	5,500.00	-
Sh.Ranbir Singh	7,000.00	-
Sh.Dilip Kumar	3,000.00	-
Dr.S.K.Goel	6,000.00	-
Sh.Ravinder Kumar Sundriyal	6,500.00	-
B) HBA Advance		
Sh.A.K.Ahuja	-	310,000.00
Ms. Sangeeta Baksi	645,000.00	445,400.00
Dr.Debabrata Majumdar	650,000.00	710,000.00
Sh.P.R.Basak	357,000.00	429,000.00
C) Car Advance		
Sh.M. Thamaraiselvan	-	82,500.00
Sh.Suresh Kumar K	41,400.00	63,000.00



	Current Year	Previous Year
Dr.Gautam Goswami	66,000.00	84,000.00
Sh.Deep Prakash	5,000.00	65,000.00
Dr.S.K.Goel	46,800.00	90,000.00
Sh.T.Chandrasekhar	147,600.00	158,400.00
Ms.Sangeeta Baksi	112,000.00	136,000.00
Total (i)	2,140,300.00	2,623,300.00
D) Leave Travel Concession		
Advance : LTC Sh.T.Chandrasekhar	-	10,000.00
Dr.P.K.Anil Kumar	43,000.00	-
Ms.Sangeeta Nagar	7,000.00	-
Sh.Mahipal Singh Rawat	34,900.00	-
E) Tour Advance		
Sh.Sajid Mubashir	81,042.00	81,042.00
Dr.Debabrata Majumdar	-	13,500.00
Sh.T.Chandrasekhar	45,000.00	49,590.00
Sh.Sanjay Sundriyal	-	2,667.00
F) Scooter Advance		
Sh.T.Adarsh Mayya	13,000.00	25,000.00
Sh.Aneesh S	16,500.00	22,500.00
Sh.Sanjay Sundriyal	-	5,000.00
G) Computer Advance		
Sh.Yahswant Dev Panwar	58,125.00	-
Total (ii)	298,567.00	209,299.00
Total (i) + (ii)	2,438,867.00	2,832,599.00



REFUND FROM PROJECTS (TIFAC REGULAR ACCOUNT)

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
(A) Home Grown Technology :		
Establishment of Detonation Spray Coating Job Shop for coating of various components.	-	400,000.00
Pilot Plant for Production of Silicon Iron Casting	55,000.00	140,000.00
Manufacturing Process for Ceramic Crucibles used for carbon & Sulfer Analysis	-	150,000.00
A Noval method for the Preparation of Low molecular weight heparin	-	420,000.00
Technology Development & Commercialization of Haemoconcentrators for open Heart Surgical Applications	225,000.00	450,000.00
Flexible Machining Centre	-	300,000.00
Manufacturing Plant for Heat Pipe Based Heat Sinks	620,000.00	1,400,000.00
Development of Wett Type Synthetic Friction Material for 2/3 Wheeler Chutch Application	140,000.00	60,000.00
Compeonentization of Human Blood towards optimization of Its utilization & Exploitation Bio Medic	-	2,500,000.00
Isolation and Characterazation of Probiotics & Formulation of Symbiotic Preparation	-	2,000,000.00
Clinical Decision Support System	-	2,880,000.00
Manufacture of Nutan Himveer Bukhari	-	600,000.00
Commercialisation of Pelletisation Technology for Biomass & Combustible Waste	250,000.00	250,000.00
Compeonentization of Human Blood & Its Derivatives for Biomedical Applications	1,250,000.00	-
Manufacture of Red Mud/Fly Ash Polymer Door Shutters	240,000.00	265,000.00
Pilot Scale Manufacture of Bio-Reactors	1,200,000.00	600,000.00
Extraction of Flacouring compounds from Hops using Lequid CO2 under High Pressure	625,000.00	1,250,000.00
Sub Total (A)	4,605,000.00	13,665,000.00



(Amount Rs.)

PARTICULARS	Current Year	Previous Year
(B) Advanced Composites Programme		
Composite Interiors for Drivers Cabin in Diesel Locomotive	1,050,000.00	700,000.00
Development of Energy Efficient Azial Flow FRP Fans	4,765,769.00	-
Development of Composite Modular Acoustic Enclosure	-	400,000.00
Development of Composite Sky Bus Coaches	-	150,000.00
Development of Composite House Boats	2,592,000.00	864,000.00
High Speed Planing Type Composite Boats	1,804,800.00	1,804,800.00
Development of Composite Filament Wound Pressure Vessel	-	776,000.00
Development of Composite Optical Fiber Cable	825,000.00	-
Development of Composite Components for High End Passenger Buses	1,361,520.00	1,361,520.00
Development of Filament wound composite Road Tanker	1,248,000.00	2,496,000.00
Composites Interiors for Railways Passenger Coaches	2,424,000.00	2,448,000.00
Development of Filament Wound Pipes & Pipe Fitting for oil & Gas Sector	1,536,000.00	3,072,000.00
FRP Bracket Assembly for Railways Electric Traction	1,977,216.00	1,318,144.00
Detoxification and Recovery of Residual Hydrocarbon From Jatropha Seed Cake	71,395.00	-
Development of Filament Wound Venturi Scrubber along with the Accessories	1,290,000.00	2,580,000.00
Sub Total (B)	20,945,700.00	17,970,464.00
(C) Sugar Technology Mission		
Ethyl Lactate Project	8,300,000.00	8,300,000.00
Automotion of Condensing & Cooling System at our Sakthi Nagar Unit	-	936,046.00
Sub Total (C)	8,300,000.00	9,236,046.00
(D) Tepp Project		
Development of Low Cost Wide Field Degital Camara for Fundus Photography	-	20,579.00
All Purpose Cleaning Machine	-	49,500.00
Improved Escalator	-	320.00



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Opto - Electronic Diameter Controller	-	6,300.00
In Vivo Dielectric Measuring Instrument in Frequency Range of 100 MHZ to 5 GHZ	71,529.00	-
Outreach Centre (TUC)	-	-
Temper Proff Seal for Disposable Bottels & Jars	-	175,000.00
Sub Total (D)	71,529.00	251,699.00
(E) Fly Ash Utilization Programme		
Bulk Production of Fly Ash Bricks	50,000.00	100,000.00
Sub Total (E)	50,000.00	100,000.00
(F) REFUND FROM PROJECT TECHNOLOGY VISION 2020		
Processing & Export of Loin & Steak of Yellow Fin Tuna	333,096.00	126,192.24
Technology Gap Study and Possible Remedial Measures for Sports Good Cluster of Jalandher.	-	2,010.00
Study for Food Processing Cluster of Malda	-	162,576.00
Module of Training of Post Harvest Management of Fruits & Vegitable	-	73,418.00
Enhancement of Farm Income of Farmers of Estern UP from value Added Rice (Kalanamak) Cultivation	-	40,000.00
Standardization of Bacopa Monnieri Extract for its Cogniting	2,760,000.00	1,380,000.00
Bio Transformation of Meso Cyclopents 14 Diacetate to 4-Rhydrozycyclopent -ENE-1-(S) Acetate	1,848,000.00	924,000.00
Development of Enzymatic Process for Producing Elevioside from Stevia Leaves & Eycopena Tomatoo	1,920,000.00	-
In the area of Industrial Biotechnology	365,509.00	-
Use of Straight Vegetable Oils in IC Engines	52,543.00	-
Manufacture of Micro Encapsulated Omega 3 Powder	-	1,939,000.00
Establishment of integrated clean milk production network at village level for manuf.value add product	-	914,239.00
Enzymatic Conversion of Reemic Molecules to Obtain stercopecific Active Pheamaculical	4,200,000.00	4,200,000.00
Sub Total (F)	11,479,148.00	9,761,435.24
Total (A) + (B) + (C) + (D)+ (E) + (F)	45,451,377.00	50,984,644.24



Annexure -3

ESTABLISHMENT EXPENDITURE (TIFAC REGULAR)

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
a) Salaries	30,107,108.00	32,342,121.00
Salary - Consolidated	3,881,743.00	3,714,310.00
Ad-hoc Bonus	139,882.00	137,473.00
b) TIFAC Contribution to New Pension Scheme	199,793.00	-
c) TIFAC Contribution to Provident Fund	3,450,780.00	2,795,852.00
d) Others (Specify)		
Hospitalisation Expenses	1,280,354.00	275,795.00
Honorarium	10,300.00	56,000.00
Medical Expenses	1,063,986.00	1,667,314.00
Leave Travel Concession	863,396.00	861,127.00
Gratuity	1,568,082.00	-
Leave Encashment	1,503,525.00	310,769.00
Children Education Allowance	-	243,590.00
Honorarium (Incentive Scheme for Hindi Language)	-	79,100.00
Tuition Fee	803,938.00	316,480.00
Total	44,872,887.00	42,799,931.00



ADMINISTRATIVE EXPENSES (TIFAC REGULAR)

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Repair and Maintenance	895,215.00	956,556.00
Rent, Rates and Taxes	236,326.00	747,860.00
Car hire Charges	1,703,987.00	1,524,039.00
Postage, Telephone and Communication Charges	2,374,454.99	2,359,568.00
Printing, Stationary & Printing of Publications	701,385.00	1,314,549.00
Travelling and Conveyance Expenses	277,922.00	268,990.00
Subscription Expenses	257,074.20	233,225.00
Auditors Remuneration	58,548.00	47,871.00
Advertisement and Publicity	764,752.00	631,024.00
Others (Specify)		
Bank Charges	-	9,090.00
Misc. Office Expenses	1,342,135.00	1,046,047.00
Membership Fee	80,804.00	60,122.00
Maintenance of Vishwakarma Bhavan	9,520,256.00	-
Legal Charges	1,076,205.00	629,375.00
WAITRO Membership	-	20,000.00
Rajabhasha Committee Meeting	228,213.00	2,000.00
Court Fee	200,450.00	261,410.00
India-IIASA Membership Fee	21,191,571.00	17,567,693.00
Interest : TDS	-	9,430.00
Housekeeping of TIFAC Building	692,748.00	551,845.00
Total	41,602,046.19	28,240,694.00



PROJECT EXPENSES (TIFAC REGULAR ACCOUNT)

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
(a) Follow-Up Action/Special Initiatives		
Commissioning of Technology Status, Gap Analysis Study & the Possible Remedial Measures for the Rubber	162,892.00	253,608.00
Pesticide Encyclopedia	2,461,105.00	2,615,978.00
Study on Indian Chemical Industry Technology Imperatives & Business Opportunities covering Knowledge	1,522,140.00	2,992,218.00
IIASA - TIFAC joint Workshop (TIFAC)	525,788.00	1,246,048.00
IIPS-IIASA-TIFAC Joint Seminar on Demography : International Perspective & Challenges for India	-	477,190.00
Initiating Technology Road Map Exercise for Indian Aluminium Sector	-	400,000.00
Integrated Water Resources Management Strategy for Water Scarce Bundelkhand region in India	217,673.00	-
TIFAC-IIASA-NEERI workshop on Economic Development and Atmospheric Pollution	215,000.00	-
TIFAC-IIASA Study on Indian Perspectives on Global Energy Scenarios till 2050	500,000.00	721,661.00
Demonstration of Four Arun 160 Solar Thermal Concentrators of 165 M2 Each Supplying Steam for drying of Sod	1,175,000.00	1,762,500.00
TIFAC - IIASA Study : Analyzing Forest Carbon Accounts for Sustainable Policy Opt. Special Ref. Livelihood	1,600,000.00	800,000.00
TIFAC-IIASA workshop on Adapting Rural Livelihood to Climate Change	215,000.00	-
TIFAC - IIASA workshop on Regional Air Pollution and Greenhouse Gas Mitigation	-	430,745.00
IIASA - TIFAC Support for Indian YSSP Participation for 2011 at IIASA. Lazenburg	254,860.00	-
Sub-Total (a)	8,849,458.00	11,699,948.00
(b) HOME GROWN TECHNOLOGIES		
Project related expenses	350,215.00	156,627.00
Sub-Total (b)	350,215.00	156,627.00



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
(c) TePP PROJECTS		
Design and Development of Indigenous Drug on Diabetes - II	-	64,505.00
Powdered Biomass Fired Burner	-	70,000.00
Scientific Experimentation of Homoeo Plant Nutrients & PlantProtectors.	-	19,755.00
Novel Internal Combustion Engine	-	177,109.00
New Process of Palleting Poultry Feed in Mini Plant	-	192,500.00
Whole stail Paddy Thresher	-	75,704.00
Resq-eye (Viction Location system)	15,000.00	103,681.00
Complete Fluorescent Lamp	-	12,200.00
Design & Development of Rubber Type Tube Protection Device	-	29,442.00
Sub-Total (c)	15,000.00	744,896.00
(d) Technology Refinment Marketing Programme (TREMAP)		
TREMAP Expenditure	958,408.00	273,623.00
TREMAP TCFA at VIT-TBI, Vellore	1,000,000.00	425,075.00
TREMAP TCFA at APTDC, Hyderabad	-	398,000.00
TREMAP TCFA at MSRSAS, Bangalore	999,796.00	700,000.00
Extendabel Pedal Crank Assembly for Doubling of Torque at Same Force	60,000.00	-
Intelligent Informer an Automated Massaging Service for Industiral System Monitoring	75,000.00	-
Auto wash Gear Roller Wall Mount Wet Grinder	372,500.00	-
TREMAP : National Awards to Commercializable Patents	4,000,000.00	-
TREMAP : Surgical Limb Positioner	172,500.00	-
TREMAP at IT-BHU, Varanasi	600,000.00	798,000.00
TREMAP at TCFA at IIT-Kharagpur	-	710,000.00
TREMAP : Low Energy Dental / Medical Aspirator	140,000.00	80,000.00
TREMAP : Automatic Cashew Decorticatign Machine	50,000.00	165,000.00
TREMAP : Non Electric Water Level Indicator	-	180,000.00
TREMAP : TCFA at Techno Park - Technology Business Incubator, Trivandrum	-	400,000.00



(Amount Rs.)

PARTICULARS	Current Year	Previous Year
TREMAP : Study at TCFA at CTE Udaipur, Rajasthan	679,325.00	400,000.00
TREMAP : TCFA at KIIT - BI, Bhubaneswar	-	400,000.00
TREMAP : Sound Wave Airway Sensor	-	105,000.00
TREMAP : Drop Catcher	-	200,000.00
TREMAP : On Passive Hybrid Harmonic Filter	-	168,000.00
TREMAP : Multi Crop Seed Cum Fertilizer Drill	-	200,000.00
TREMAP : Nimble Carpet Shearign Machine	-	210,000.00
Novel Fluorescent Reagent for Detecting Fingerprints	14,000.00	-
Side view mirror adjustment and protection system	110,000.00	-
Sub-Total (d)	9,231,529.00	5,812,698.00
(e) Revolving Fund (SIDBI)		
Funds Released to Revolving Fund (SIDBI)	-	100,000,000.00
Earmarked fund to be released to SIDBI	45,000,000.00	50,000,000.00
Sub-Total (e)	45,000,000.00	150,000,000.00
(f) Project Related Expenditure	5,723,538.50	7,557,932.00
Sub-Total (f)	5,723,538.50	7,557,932.00
Total (a) to (f)	69,169,740.50	175,972,101.00



EXPENDITURE OF VISION 2020

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Establishment & Administrative Expenditure		
Misc Office Expenses	29,221.00	79,593.00
Periodical & Magazine Charges	1,798.00	9,575.00
Hospitalisation Expenses	162,624.00	-
Printing Charges	-	9,070.00
Repair and Maintenance	19,362.00	33,090.00
Telephone / Internet Charges	2,509.00	150,668.00
Car Hire Charges/ Conveyance	-	165,819.00
Ad-hoc Bonus	27,632.00	27,632.00
Medical Reimbursement	246,492.00	368,417.00
Salary	9,501,001.00	7,472,128.00
Leave Travel Concession	202,193.00	4,640.00
Honorarium	15,500.00	291,500.00
Advertisement Expenses	-	12,572.00
Internship	-	5,000.00
Children Education Allowance	-	129,753.00
Encashment of Leave	-	67,626.00
Tuition Fee	125,526.00	-
Leave Encashment	28,124.00	7,979.00
Legal Charges	7,875.00	7,875.00
TIFAC Membership	-	28,400.00
Stationery	-	-
Total	10,369,857.00	8,871,337.00



PROJECT EXPENDITURE OF VISION 2020

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
(a) Agriculture Sector		
Promotion of Medicinal and Aromatic Plants in Paliganj Area, Patna	210,000.00	211,720.00
Demonstration of Agriculture Diversification through Aromatic Plant Cultivatio at Deoria	-	470,077.00
Agricultural Deversification for Enhancing Productivity of Acidic upland of Eastern India	-	18,000.00
Enhancing Water Productivity in Deep Water Rice Area	75,000.00	121,418.00
Demonstration of system Approach in selected low Productivity Regions of Deoria, District	-	53,813.00
Support t Training, Employment and Income Generation Programme for Farmer and Rural Women Processing & Value Addition of Agriculture Produce	19,609.00	-
Agriculture, Quality Mode Production in Rice wheat Cropping System Through Farmers, BHU, Varanasi	320,103.00	654,000.00
On Farm Demonstration, Popularizaion, Commerciatization & Processing of Mentha Cultivation in Barabanki District of U.P	-	708,740.00
Enhancement of Farm Income of Farmers of Eastern Uttar Pradesh from Added Scented Rice (Kalanamak)	-	2,142,327.00
Improved seed Production and Multiplication at Paliganj, Patna	511,582.00	397,247.00
On Farm Demonstration, Commercial Cultivation of Trichoderma as bio pesticide & growth Promoter	634,121.00	1,443,912.00
Transfer of IPM Technology Package to Farmers fields through Training & Demonstration against insect pests, Wild Fungus & Root Knot Nematocle Diseases Infecting tomato	-	9,158.00
Enhancing Income of Small And	-	242,000.00
Value Additon of Low Value Marine Pelagic Fishes	-	502,250.00
Sub-Total (a)	1,770,415.00	6,974,662.00



(b) Targeted Programme in Other Important Area		
Efficient Utilization of Jatropha seed cake by Detoxification & Recovery of Residual Hydrocarbon	1,741,000.00	2,400,000.00
Setting up an Aseptic Pulp processing cum packaging plant at malda	63,813.00	91,688.00
Fashion Design Technology Gap analysis study of readymade garments cluster in Tirupar, Tamilnadu	-	165,000.00
Tehchnology Status gap Analys Study & the possible remedial measures for the auto components manfaucture unit	-	250,000.00
Technology Gap Analysis Study in readymade garmetn industries cluster in Delh/NCR Region	-	275,000.00
Technology Gap Analysis Study in Production/Manf. Processes as well as environment aspects of Readymade Garments	-	450,000.00
Technology Gap Analysis Study for the plastics cluster in Delhi	-	400,000.00
Technology Gap Analysis Study in Textile Cluster, Panipat	105,000.00	475,000.00
Technology Gap Analysis study for the Mini Gas Cylinder Cluster in Meerut	430,308.00	175,000.00
Technology Gap Analysis Study for the sewing machine cluster in Ludhiana	105,000.00	500,000.00
Technology Gap Analysis Study for the voltage stabilizer cluster in Meerut	105,000.00	175,000.00
Technology Gap Analysis Study of Plastic Cluster in Mumbai	-	475,000.00
Technology Gap Analysis study for the Bicycle parts cluster in Ludhiana	-	500,000.00
Technology Gap Analysis study for the Electrnics Cluster in Mohali	-	175,000.00
Development fo Novel Processing	2,500,000.00	-
R&D Centre for Howrah	6,329,075.00	-
Development of Enzymatic Process for producing Slevioside from Stevia Leaves & Lycopena from Tometoo	1,400,000.00	-
Car : Use of Straight Vegetable Oils	836,000.00	-
Process Development in semisolid Forming & Squeeze Casting of Aluminium Alloy Components for Automobile	-	9,220,000.00
3 Dimensional Automated Vision Inspection Statin (3D Vision)		



(Amount Rs.)

PARTICULARS	Current Year	Previous Year
- Initiation of Seed Phase Project	-	2,000,000.00
Ultracapacitor for electric and Hybred Electric Vehicles	-	1,500,000.00
Development of Biotransformation Process for syntesis of Chirally Pure Componds	2,755,000.00	2,700,000.00
Court Case Document Tracking Information system using RFID	-	1,400,000.00
Centre for Biofuels	10,000,000.00	-
E-Court Room Digital Recording & Retrieval System (E-DRRS)	-	3,500,000.00
Study on Biomass Derived Bioproducts Assessment of Technology Trends, Gaps & opportunities for India	-	214,000.00
Workshop on advance technologies for Baruipar surgical instruments cluster for meeting market requirements.	24,000.00	-
Process Development for Production of L-arginine by Fermentation	1,060,000.00	900,000.00
Sub-Total (b)	27,454,196.00	27,940,688.00
(c) Upgradation of Engineering College		
TIFAC-CORE in Digital Image Processing	-	3,706,000.00
Designing Developing & Maintaining Mission REACH Website and Enabling Web Based Services	-	1,651,070.00
TIFAC-CORE in the area of Diabetic Retin	2,767,000.00	-
TIFAC-CORE in E-Outreach	-	1,649,000.00
Sub-Total (c)	2,767,000.00	7,006,070.00
(d) Textile Machinery		
To Assess S&T Gaps in Textile and Assessment of Education institutional Capacity Building	-	204,000.00
Sub-Total (d)	-	204,000.00
(e) Project Related Expenditure	4,675,666.00	5,258,588.00
Sub-Total (e)	4,675,666.00	5,258,588.00
TOTAL (a) to (e)	36,667,277.00	47,384,008.00



Annexure - 7

TECHNOLOGY VISION 2035

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Expenditure :		
Brainstroming Meeting Vision 2035	1,626,371.00	247,620.00
Project Related Expenditure	1,796,798.00	95,006.00
Total	3,423,169.00	342,626.00

Annexure - 8

PATENT FACILITATING CENTRE

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Other Income		
Other Receipts	21,774.00	100.00
Patent Search Charges	-	18,000.00
CD ROM Ekaswa A & B	36,000.00	12,000.00
Total	57,774.00	30,100.00



PATENT FACILITATING CENTRE

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Establishment & Administrative Expenditure		
Salary	3,295,074.00	2,914,302.00
Salary Consolidated	938,454.00	808,619.00
Medical Reimbursement	10,317.00	86,258.00
Advertisement Expenses	76,685.00	-
Honorarium	22,000.00	21,000.00
Children Education Allowance	-	43,492.00
Leave Travel Consession	-	20,319.00
Printing & Publications	-	6,300.00
Printing Charges	-	20,640.00
Miscellaneous Office Expenses	59,867.00	102,455.00
Conveyance	6,377.00	18,347.00
Telephone & Telex	17,880.00	59,677.00
Ad-hoc Bonus	13,816.00	17,270.00
Tution Fee	-	6,000.00
Leave Encashment	-	5,167.00
Office Equipment	-	169,344.00
Filing of Patent	3,304,885.00	3,857,030.00
Car Hire Charges, Annual Subscription, Periodicals & Magazines Stationery, Meeting Expenses, Traveling Expenses, Membership Etc	143,651.00	344,088.00
Repair & Maintenance	-	8,544.00
Total	7,889,006.00	8,508,852.00



Annexure -10

PATENT FACILITATING CENTRE

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Project Expenditure		
Project related Expenditure (including patent workshop expenses)	2,147,799.00	2,280,154.00
Total	2,147,799.00	2,280,154.00

Annexure -11

SHORT TERM DEPOSITS WITH BANKS

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Short Term Deposits		
TIFAC	65,500,000.00	-
Accrued Interest	4,358,718.00	-
Total	69,858,718.00	-

Annexure -12

EXPENSES PAYABLE

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Salary Payable	3,165,370.00	4,292,294.00
M/s. Sansanwal Travels	129,123.00	151,482.00
M/s. MTNL	54,966.00	68,123.00
M/s Bhagwati International	-	-
M/s R.R.Associates	16,781.00	-
M/s Chandiwala Gupta & Associates	-	30,333.00
M/s Anil Bhatla & Company	46,967.00	-
M/s Pink House Keeping	65,475.00	54,232.00
M/s Iceberg Foods Ltd, Delhi	17,414.00	-
M/s Yash Tour & Travels	-	25,685.00
M/s Water Point	-	36,673.00
M/s Omni Traders	-	19,713.00
M/s JMD Tourist Transport Co.	-	-
M/s Yatrika Travesl	29,018.00	183,079.00
SubTotal (A)	3,525,114.00	4,861,614.00
Income Tax Payable	201,512.00	183,079.00
Sub Total (B)	201,512.00	183,079.00
Total (A) + (B)	3,726,626.00	5,044,693.00



Annexure - 13

PROJECT ICOSER

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	13,202,152.00	19,107,292.00
B) Income	-	-
Sub total	-	-
Refund from Project	-	-
Sub total	-	-
Total A+B	13,202,152.00	19,107,292.00
C) Expenditure:		
i) Capital Expenditure: Fixed Assets	-	-
ii) Revenue Expenditure	-	5,905,140.00
Total (i) + (ii) = (C)	-	5,905,140.00
Balance carried forward to next year (A+B-C)	13,202,152.00	13,202,152.00

Annexure - 14

**GRANT INDIAN-MYANMAR
S&T FRIENDSHIP LIBRARY IN YANGON**

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	959,659.00	959,659.00
B) Income	-	-
Sub total	-	-
Total A+B	959,659.00	959,659.00
C) Expenditure :		
i) Capital Expenditure: Fixed Assets	-	-
ii) Revenue Expenditure	-	-
Total (i) + (ii) = (C)	-	-
Balance carried forward to next year (A+B-C)	959,659.00	959,659.00



Annexure - 15

MSEB – ASH Utilization / Management

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	600,094.00	600,094.00
B) Income :		
Grant in Aid	-	-
Interest Earned	-	-
Other Income	-	-
Sub total	-	-
Total A+B	600,094.00	600,094.00
C) Expenditure :		
i) Capital Expenditure : Fixed Assets	-	-
ii) Revenue Expenditure :	-	-
iii) Project Expenditure	-	-
MSEB Fly Ash in Agriculture	-	-
MSEB Fly Ash In Brick Manufacture	-	-
Total (i+ ii+ iii) = C	-	-
Balance carried forward to next year (A+B-C)	600,094.00	600,094.00

Annexure - 16

FAM Large Scale Stowing of HWP Pond Ash into the underground Mines of SCCL(Manuguru)

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	8,294,830.00	8,294,830.00
B) Income :		
Grant in Aid	-	-
Interest Earned	-	-
Other Income	-	-
Sub total	-	-
Total A+B	8,294,830.00	8,294,830.00
C) Expenditure :		
i) Capital Expenditure : Fixed Assets	-	-
ii) Revenue Expenditure :	-	-
iii) Project Expenditure	-	-
Total (i+ ii+ iii) = C	-	-
Balance carried forward to next year (A+B-C)	8,294,830.00	8,294,830.00



Annexure - 17

EARTHQUAKE SERVING NATURE'S FURY

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	165,157.00	142,557.00
B) Income :		
Grant in Aid	-	72,600.00
Interest Earned	-	-
Other Income	-	-
Sub total	-	72,600.00
Total A+B	165,157.00	215,157.00
C) Expenditure :		
i) Capital Expenditure : Fixed Assets	-	-
ii) Revenue Expenditure :	-	-
iii) Project Expenditure :	-	-
Production of Film on Earth Quake	-	50,000.00
Total (i+ ii+ iii) = C	-	50,000.00
Balance carried forward to next year (A+B-C)	165,157.00	165,157.00

Annexure - 18

DRDO - PFC

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	78,575.00	(323,411.00)
B) Income :		
Grant in Aid	6,507,009.00	19,918,429.00
Interest Earned	-	-
Other Income	-	-
Sub total	6,507,009.00	19,918,429.00
Total A+B	6,585,584.00	19,595,018.00
C) Expenditure :		
i) Capital Expenditure : Fixed Assets	-	-
ii) Revenue Expenditure :	-	-
iii) Project Expenditure :	6,189,839.00	19,516,443.00
Total (i+ ii+ iii) = C	6,189,839.00	19,516,443.00
Balance carried forward to next year (A+B-C)	395,745.00	78,575.00



EARNEST MONEY FROM SUGAR FACTORIES

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
Earnest Money: Sakthi Gugars Ltd	100,000.00	100,000.00
Earnest Money : Pratappur Sugar Industry Ltd	100,000.00	100,000.00
Earnest Money : RBN Sugar Mills	100,000.00	100,000.00
Earnest Money : L.H.Sugar	100,000.00	100,000.00
Earnest Money : Riga Sugar	100,000.00	100,000.00
Earnest Money : Jind Coop-Sugar	100,000.00	100,000.00
Earnest Money : Vishnu Sugar	100,000.00	100,000.00
Earnest Money : DSM Sugar	100,000.00	100,000.00
Earnest Money : Valsad Sugar	100,000.00	100,000.00
Earnest Money : Budhewal Co	100,000.00	100,000.00
Earnest Money : Palwal Sugar Ltd	100,000.00	100,000.00
Earnest Money : Godawari Sugar Mill	100,000.00	100,000.00
Earnest Money : Padamashri Dr.Vithalrao Vikho Patil SSK Ltd	100,000.00	100,000.00
Earnest Money : Mawana Sugar	100,000.00	100,000.00
Earnest Money:EID Parry, Pugalur	100,000.00	100,000.00
Earnest Money : Vishwas Rau Naik SSK Ltd	100,000.00	100,000.00
Earnest Money : M/s Terna SSK Ltd	100,000.00	100,000.00
Earnest Money : Shakumbani Sugar Ltd	100,000.00	100,000.00
Earnest Money : Shri Talabu Taluka SKM	100,000.00	100,000.00
Earnest Money : Bileshwar Khurd Udyog Khedut Sahakari Mandal Ltd	100,000.00	100,000.00
Earnest Money : Sanjavani SSK Ltd	100,000.00	100,000.00
Earnest Money : Rahuri S.S.K Ltd	100,000.00	100,000.00
Earnest Money : Ashok SSK Ltd	100,000.00	100,000.00
Earnest Money : Simbhaoli Sugar	300,000.00	300,000.00
Earnes Money : Jagadamba SSK	100,000.00	100,000.00
Earnest Money : Rana Sugar Ltd	100,000.00	100,000.00
Earnest Money : Dharani Sugar & Chemical Ltd	100,000.00	100,000.00
Earnest Money : Triveni Engg. Industries Ltd	200,000.00	200,000.00
Earnest Money : Uttam Sugar Ltd	100,000.00	100,000.00
Earnest Money : Chamundeswari Sugar Mills	200,000.00	200,000.00
Earnest Money : Mansurpur Sugar Mills	100,000.00	100,000.00
Earnest Money : Bharat Sugar Ltd	100,000.00	100,000.00
Total	3,600,000.00	3,600,000.00



Annexure - 20

MPSEB – Use of Fly Ash in Agriculture Development Thermal Power Plant, Sarni

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	356,825.00	356,825.00
B) Income :		
Grant in Aid	-	-
Interest Earned	-	-
Other Income	-	-
Sub total	-	-
Total A+B	356,825.00	356,825.00
C) Expenditure :		
i) Capital Expenditure : Fixed Assets	-	-
ii) Revenue Expenditure :	-	-
iii) Project Expenditure	-	-
Total (i+ ii+ iii) = C	-	-
Balance carried forward to next year (A+B-C)	356,825.00	356,825.00

Annexure - 21

TIFAC-World Bank Project

(Amount Rs.)

PARTICULARS	Current Year	Previous Year
A) Balance Brought Forward	1,339,747.93	1,339,747.93
B) Income :		
Grant in Aid	-	-
Interest Earned	-	-
Other Income	-	-
Sub total	-	-
Total A+B	1,339,747.93	1,339,747.93
C) Expenditure :		
i) Capital Expenditure : Fixed Assets	-	-
ii) Revenue Expenditure :	-	-
iii) Project Expenditure	-	-
Total (i+ ii+ iii) = C	-	-
Balance carried forward to next year (A+B-C)	1,339,747.93	1,339,747.93



**Technology Information Forecasting & Assessment Council
Receipts & Payments for the Period the Year Ended 31.03.2012**

Receipts	Current Year	Previous Year
1 Opening Balances		
Cash in hand	5,304.00	3,524.00
Bank balances		
In Current Accounts		
In Deposit Accounts	-	86,705,099.28
Savings Accounts	89,877,934.52	30,267,745.00
Advance for Franking Machine	8,214.00	9,422.00
2 Grants Received		
From Government of India - Plan (TIFAC)	184,710,000.00	170,699,700.00
From Government of India - Non Plan (TIFAC)	600,000.00	700,000.00
Scholarship for Womet Scientist	-	15,451,000.00
3 Interest Received		
On Bank Deposits (TIFAC)	4,358,718.00	1,088,928.00
On Bank Savings (TIFAC)	3,775,695.00	3,509,942.00
Loans Advances etc. (Staff advances)	13,803.00	10,838.00
Loan Advance (HBA)	153,192.00	-
4 Other Income (Specify)		
Refund from HGT Project	4,605,000.00	13,665,000.00
Refund from Advance Composite Programme	20,945,700.00	17,970,464.00
Refund from Vision 2020	11,479,148.00	9,761,435.24
Other Income (Annexure 18)	397,809.44	74,087.00
Refund from Sugar Technology Mission	8,300,000.00	9,236,046.00
Refund from TePP Project	71,529.00	251,699.00
Refund from Fly Ash Utilization Programme	50,000.00	100,000.00



Receipts	Current Year	Previous Year
5 Receipts fro Patent Facilitating Centre		
Grant in Aid	15,000,000.00	10,000,000.00
Patent Search Charges	-	18,000.00
Ekaswa A&B CD RoM	36,000.00	12,000.00
Interst Scooter Advance	308.00	2,713.00
Other Receipts	21,774.00	100.00
6 Other Receipts (Give Details)		
Nominal Charges for Dissemination of TIFAC Reports	159,140.00	196,383.00
Tender for Car Hiring Accounts	2,500.00	-
RTIA Questions	1,049.00	250.00
Staff Advance	393,732.00	
Tender for Housekeeping at TIFAC		6,000.00
Stale Cheque Received	149,417.00	376,088.00
DRDO - PFC	6,507,009.00	19,918,429.00
Advance : DAVP	1,268.00	
Total (i)	351,624,243.96	390,034,892.52
Earnest Money : M/s Sansanwal Travels	50,000.00	-
Earnest Money : M/s Pink House Keeping	-	15,000.00
Sundry Creditor : M/s Daikin Airconditioning India Pvt Ltd	-	154,645.00
Security Deposite : M/s Pink House Keeping	-	45,206.00
Sundry Debtor : DST (IITF)	1,192,500.00	-
Advance : Sardar Patel Institute of Economic and Social Research, Ahmadabad	250,000.00	-
Training Programme on IPR and WTO Issues for Scientists/ Technologists Working in Government Sector.	-	177,750.00
Advance : IIT-Delhi	57,500.00	-
Earnest Money : Yatrika Travels	50,000.00	-
Earmarked for Release to SIDBI (Revolving Fund) Capital Fund	45,000,000.00	50,000,000.00
Furniture	33,917.00	-



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

Receipts	Current Year	Previous Year
Office Equipment	3,127.00	-
Security Deposite : Ms.Ititka Singal	50,000.00	-
Security Deposite : Mrs. Prem Lata Vyas	105,000.00	-
GSLIS	212.00	-
Capital Fund	-	1,412,844.81
Medical Scheme	259,950.00	400,178.00
Sundry Debtor - DST	-	2,636,440.00
Security Deposite : MTNL	8,729.00	14,834.00
Advance to BISR (Haldwani)	-	76,173.00
Construction of Reception Office (DST)	-	3,259,953.00
CPF	-	322,323.00
Sundry Debtor : DBT	-	15,620.00
Advance :Director, IIPS, Mumbai	-	500,000.00
Sundry Debtor : Central Institute of Road Transportation	-	10,936.00
Advance : Hotel Janpath	-	599.00
Asia India Workshop	-	66,974.00
Advance : M/s Daikin Airconditioning India Pvt Ltd	-	200,382.00
Sundry Debtor : MTNL	-	5,357.00
Short Term Deposit : (Suspence Account)	-	1,398,597.00
Security Deposite : S.R.Enterprises	-	2,700.00
Sundry Debtor : Geo Spatial Application	-	208,450.00
M/s Sonu Printing Press	60,784.00	-
Total (ii)	47,121,719.00	60,924,961.81
Total (i) + (ii) = (A)	398,745,962.96	450,959,854.33



Technology Information Forecasting & Assessment Council Receipts & Payments for the Period the Year Ended 31.03.2012

Payment		Current Year	Previous Year
1 Expenses			
a Establishment Expenses (Schedule 21)	44,872,887.00		
Add : Opening Expenses Payable	4,292,294.00		
Less : Expenses Payable	2,381,723.00	46,783,458.00	41,275,696.00
b Administrative Expenses (Schedule 21)	41,420,385.19		
Add : Opening Expenses Payable	569,320.00		
Add : Loss of sale of Fixed Assets	-		
Less : Payables	337,068.00	41,652,637.19	27,997,749.00
Less : Loss on Sale of Fixed Assets (Previous year figure does not include obsolescence Expenses in it.)			
c Expenditure on Grants, Subsidies etc. (As per Schedule 22)		69,169,740.50	175,972,101.00
2 Payments made against funds for various projects			
Grant Utilisation - Patent Facilitating Centre	9,868,351.00		
Add : Opening Expenses Payable	-		
Less : Expenses Payable	241,659.00	9,626,692.00	11,113,977.00
Grant Utilisation - Vision 2020	47,037,134.00		
Add : Opening Expenses Payable	-		
Less : Expenses Payable	741,809.00	46,295,325.00	56,939,127.00
Grant Utilisation - Scholarship for Women Scientist		1,336,683.00	14,289,707.00
Grant Utilisation - Technology Vision 2035		3,423,169.00	342,626.00
Addition in Fixed Assets			
Office Equipment		639,498.00	576,405.81
Furniture		-	14,300.00
Library Book		-	46,320.00
Computer & Peripherals		102,956.00	704,099.00
Fire Alarm System at TIFAC Building		-	-
Fire Extinguisher		-	45,675.00
Rufund of Surples Money / Loans			
Advance paid to staff		-	352,865.00
3 Other Payments (Specify)			
DRDO - PFC		6,567,447.00	19,516,443.00
MSEB-Ash Utilization / Management			-
CPF		26,780.00	-
Sundry Creditor : M/s Daikin Airconditioning India Pvt. Ltd		154,645.00	-
Training Programme on IPR and WTO issues for Scientists/ Technologists working in Government Sector.		30,298.00	-
Project ICOSER		-	5,905,140.00
Total (i)		225,809,328.69	355,092,230.81



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

Payment		Current Year	Previous Year
Earnest Money : M/s Omni Tech Systems		-	10,000.00
Earnest Money : M/s Bhagwati International		-	30,000.00
GSLIS		-	345.00
Security Deposite : M/s Bhagwati International		-	18,451.00
Advance : Sardar Patel Institute of Economic and Social Research, Ahmadabad		-	250,000.00
Sundry Debtor : DST (IITF)		-	1,462,500.00
TDS (FDR) Sarita Vihar, New Delhi		-	19,726.00
Security Deposite :Rent Ms. Ititka Singal		-	10,000.00
Fly Ash Sponsorship for National Seminar		-	285,268.00
Security Deosit : DST (IITF)		-	74,520.00
International Congress Seminar Expenses		-	2,725,412.00
IIASA TIFAC Joint Study		-	3,519.00
TDS : CPF (FDR) UBI, SDA		-	321,591.00
Interior Work of TIFAC Building		130,650.00	722,017.00
Advance : DAVP		-	42,822.00
Advance : Acharya Vinaba Bhawe		150,000.00	-
Closing Balance			
Cash in Hand		3,681.00	5,304.00
Cash at Bank		102,786,894.27	89,877,934.52
Short Term Deposite		69,858,718.00	-
Franking Machine		6,691.00	8,214.00
Total (ii)		172,936,634.27	95,867,623.52
Total (i) + (ii) = (B)		398,745,962.96	450,959,854.33

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Auditor's Report

The Trustees,
TIFAC Contributory Provident Fund Trust,
New Delhi.

We have audited the attached Statement of Affairs of TIFAC Contributory Provident Fund Trust as at 31st March 2012 with the books of accounts, maintained at New Delhi.

These financial statements are the responsibility of the management of the TIFAC Contributory Provident Fund Trust. Our responsibility is to express an opinion on these financial statements based on our audit.

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 misstatement. 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 the management, as well as evaluating the overall presentations of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

On the basis of examination of the books of accounts and subject to our Audit objections as per **Annexure AR-2**, we report that:-

1. The Statement of Affairs dealt with by this report are in agreement with the books of accounts of the Trust.
2. In our opinion and to the best of our information and according to explanation given to us, the said accounts give the information required and give a true and fair view, in the case of Statement of Affairs, the state of the affairs of the Trust as at 31st March 2012

For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

Sd/-
Ch. Chandra Sekhar Patro
(Partner)
M. No. – 091529

Date: 10-09-2012
Place: New Delhi



CONTRIBUTORY PROVIDENT FUND (TIFAC) STATUTORY AUDIT FOR F/Y 2011-2012

AUDIT OBJECTIONS- AR 2

- 1) As per Contributory Provident Fund Rules of TIFAC, the Investible Fund of the Trust shall be invested as per the investment pattern laid in Government of India, Ministry of Finance (Department of Economic Affairs) Notification no. F.12(1) – PD/86 dated 17.03.1986, whereas the trust had invested 100% of the investible funds in fixed deposits with a Scheduled Bank.
- 2) Interest/Bank Charges amounting to Rs.1, 49,529/- relating to previous years has been charged to revenue during the current financial year. As a result the income of the Trust for the current financial year is reduced by Rs.1, 49,529/-.

CONTRIBUTORY PROVIDENT FUND (TIFAC) REPLIES TO AUDIT QUERIES “ANNEXURE AR 2”

- 1) The Trust invested the accumulations of Contributory Provident Fund in one of the instruments suggested vide Ministry of Finance notification quoted above.
- 1) The interest charged was for the transaction out of Flexi account maintained by TIFAC. However, when Bank did not agree for interest free swapping out of Flexi account, the transactions were stopped since 2010-11.

Sd/-
(Chairman)

Sd/-
(Trustee)



Contributory Provident Fund- TIFAC Trial Balance as on 31st March, 2012

(Amount Rs.)

S.NO.	PARTICULARS	DEBIT AMOUNT	CREDIT AMOUNT
1	EMPLOYEES SUBSCRIPTION A/C		16,617,514.93
2	EMPLOYER'S CONTRIBUTION A/C		17,340,028.00
3	INTEREST A/C		19,740,304.70
4	CPF ADV: SHRI ANIL KUMAR RAI	86,750.00	
5	CPF ADV: SHRI ARGHYA SARDAR	63,150.00	
6	CPF ADV: Ms. MERCY JAMES	34,600.00	
7	CPF ADV: MS. MALA SARPAL	23,450.00	
8	CPF ADV: MS. GEETA TOMER	98,000.00	
9	CPF ADV: SHRI RAVINDER KUMAR	33,780.00	
10	CPF ADV:SH. SURESH SOMANCHI	110,000.00	
11	CPF ADV. SH. SURENDER PRASAD	10,800.00	
12	CPF ADV: SMT. KAVITA TYAGI	66,400.00	
13	CPF ADV: SHRI S.K. MUNESHWAR	45,400.00	
14	CPF ADV: DEEPAK KUMAR	31,000.00	
15	CPF ADV: SH. SURESH BABU M	5,000.00	
16	CPF ADV.: UMA DARAL	29,100.00	
17	CPF ADV. SH. DEEP PRAKASH	2,000.00	
18	CPF ADV. RACHNA BHATT	6,600.00	
19	CPF ADV. SH. SUSHIL KUMAR JHA	16,200.00	
20	CPF ADV. P.R. BASAK	40,000.00	
21	CPF ADV. MR. MUKESH MATHUR	63,200.00	
22	CPF. ADV. MR. SURINDER KUMAR	32,800.00	
23	CPF ADV. SH. PANKAJ SUNDRIYAL	2,720.00	
24	FLEXI DEPOSIT-UBI	422,472.00	
25	SHORT TERM DEPOSIT (UBI)	46,444,260.00	
26	SPECIAL DEPOSIT (RBI) A/C	520,330.00	
27	TIFAC TDS A/C	323,835.00	
28	CASH AT BANK	5,186,000.63	
	Total	53,697,847.63	53,697,847.63

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Contributory Provident Fund- TIFAC Statement of Affairs as on 31st March, 2012

Previous Year as 31.03.2011	Particulars	Current Year 31.03.2012	Previous Year As on 31.03.2011	Particulars as	Current Year As on 31.03.2012
	Interest Accrued		3,111,987.63	Balance with UBI Deposits	5,186,000.83
14,204,606.70	Last Balance	16,093,643.70	520,330.00	Special deposite with RBI	520,330.00
2,018,152.00	Add: Received/ Accrued during the year	3,887,785.00	41,491,164.00	Short Term deposit with UBI	46,444,260.00
16,222,758.70		19,981,428.70	395,117.00	Flexi Deposit- UBI	422,472.00
129,115.00	Less: Paid during the year	91,595.00	321,591.00	TIFAC TDS A/c	323,835.00
-	Less: Bank Charges (Intrest)	149,529.00			
16,093,643.70		19,740,304.70		Loan/ Advances to staff members	
	Employees Contribution		91,475.00	Shri Anil Kumar Rai	86,750.00
12,658,016.70	Last Balance	16,492,102.93	120,750.00	Shri Arghya Sardar	63,150.00
8,074,516.23	Add: Received during the year	5,817,837.00	83,450.00	Ms. Mala Sarpal	23,450.00
20,732,532.93		22,309,939.93	91,000.00	Sh. Deepak Kumar	31,000.00
4,240,430.00	Less: Paid during the year	5,692,425.00	45,300.00	Ms. Uma Daral	29,100.00
16,492,102.93		16,617,514.93	194,000.00	Ms. Geeta Tomer	98,000.00
	TIFAC Contribution		27,600.00	Sh. Sundender Prasad	10,800.00
11,707,901.00	Last Balance	14,756,379.00	100,000.00	Smt. Kavita Tyagi	66,400.00
3,651,165.00	Add: Received during the year	4,473,906.00	95,800.00	Sh. S.K. Muneshwar	45,400.00
15,359,066.00		19,230,285.00	65,000.00	Sh. Suresh Babu M	5,000.00
602,687.00	Less: Paid during the year	1,890,257.00	35,600.00	Sh. Deep Prakash	2,000.00
14,756,379.00		17,340,028.00	23,400.00	Ms. Rachna Bhatt	6,600.00
			41,400.00	Sh. Sushil Kumar Jha	16,200.00
			80,000.00	Mr. P.R. Basak	40,000.00
			131,600.00	Mr. Mukesh Mathur	63,200.00
			66,400.00	Sh. Surinder Kumar	32,800.00
			5,360.00	Sh. Pankaj Sundriyal	2,720.00
			-	Sh. Ravinder Kumar	33,780.00
			-	Ms. Mercy James	34,600.00
			-	Sh. Suresh Somanchi	110,000.00
			1,630.00	Sh. Mahipal Singh Rawat	-
			12,000.00	Sh. Aneesh S.	-
			15,800.00	Ms. Renu Bali	-
			24,000.00	Sh. Awadh Kishore	-
			842.00	Dr. Gutam Goswami	-
			149,529.00	Bank Charges	-
47,342,125.63	Total	53,697,847.63	47,342,125.63	Total	53,697,847.83

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Scientist-in-charge
TIFAC

Date : 10.09.2012
Place : New Delhi



Contributory Provident Fund- TIFAC Statement of Affairs as on 31st March, 2012

Pervious Year as 31.03.2010	PARTICULARS	Current Year As n 31.03.2011
3,111,987.63	Balance with UBI Deposit	5,186,000.63
520,330.00	Special deposit with RBI	520,330.00
41,491,164.00	Short Term deposit with (UBI)	46,444,260.00
395,117.00	Flexi Deposit -UBI	422,472.00
321,591.00	TIFAC TDS A/C	323,835.00
	Loan/ Advances to staff members	
91,475.00	Shri Anil Kumar Rai	86,750.00
120,750.00	Shri Arghya Sardar	63,150.00
83,450.00	Ms. Mala Sarpal	23,450.00
-	Ms. Mercy James	34,600.00
1,630.00	Sh. Mahipal Singh Rawat	-
842.00	Dr. Gautam Goswami	-
24,000.00	Sh. Awadh Kishore	-
194,000.00	Ms. Geeta Tomer	98,000.00
27,600.00	Sh. Surender Prasad	10,800.00
100,000.00	Ms. Kavita Tyagi	66,400.00
95,800.00	Sh. S.K. Muneshwar	45,400.00
-	Sh.Suresh Somanchi	110,000.00
-	Sh. Ravinder Kumar	33,780.00
91,000.00	Sh. Deepak Kumar	31,000.00
65,000.00	Sh. Suresh Kumar M	5,000.00
12,000.00	Sh. Aneesh S.	-
15,800.00	Ms. Renu Bali	-
45,300.00	Ms. Uma Daral	29,100.00
35,600.00	Sh. Deep Prakash	2,000.00
23,400.00	Ms. Rachna Bhatt	6,600.00
41,400.00	Sh. Sushil Kumar Jha	16,200.00
80,000.00	Mr. P.R. Basak	40,000.00
131,600.00	Mr. Mukesh Mathur	63,200.00
66,400.00	Mr. Surinder Kumar	32,800.00
5,360.00	Mr. Pankaj Sundriyal	2,720.00
149,529.00	Bank Charges	-
47,342,125.63	Total	53,697,847.63

For Anil Bhatia & Company
Chartered Accountants

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Date : 10.09.2012
Place : New Delhi



Auditor's Report

The Members,
National Mission on Bamboo Applications,
New Delhi.

We have audited the attached Balance Sheet of **NATIONAL MISSION ON BAMBOO APPLICATIONS** under Technology Information, Forecasting & Assessment Council (TIFAC), New Delhi as at 31st March, 2012 and the statement of Income & Expenditure Account for the year ended on that date annexed thereto.

These financial statements are the responsibility of the management of the National Mission on Bamboo Applications - TIFAC. Our responsibility is to express an opinion on these financial statements based on our audit.

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 misstatement. 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 the management, as well as evaluating the overall presentations of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

Subject to our Audit observations as per Annexure AR-3 and comments given on significant accounting policies, contingent liabilities and notes to accounts as per schedules 24 & 25, we report that:-

- 1) 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;
- 2) In our opinion proper books of account as required by law have been kept by National Mission on Bamboo Applications-TIFAC, so far as appears from our examination of those books;
- 3) The Balance Sheet and statement of Income and Expenditure Account dealt with by this report are in agreement with the books of accounts;
- 4) In our opinion and to the best of our information and according to the explanations given to us, the said accounts read with the schedules and notes thereto give the information required and give a true and fair view:-
 - i) In case of Balance Sheet, of the state of affairs of the National Mission on Bamboo Application as at 31st March, 2012; and
 - ii) In case of Income & Expenditure Account, of the excess of income over expenditure for the accounting year ended on that date.

For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

Ch. Chandra Sekhar Patro
(Partner)
MRN: 091529

Date: 10.09.2012
Place: New Delhi



**NATIONAL MISSION ON BAMBOO APPLICATIONS
TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL (TIFAC)
STATUTORY AUDIT FOR F/Y 2011-2012**

AUDIT OBSERVATIONS- AR 3

1. NMBA has given financial assistance in the form of Technology Development Assistance (TDA) to various Companies, Partnership firms and other concerns for technology advancement and related objects. As per the TDA sanction document and agreement entered between NMBA and the beneficiaries, the TDA amount will be repaid by the beneficiaries in installments at specified intervals and according to the terms of the agreement. We have observed that there are some cases where the TDA has not been repaid by the beneficiaries. The detailed break-up of the overdue amount are as under:-

Overdue statement as on 31st March 2012

Overdue upto six months	Overdue from more than six months upto 3 years	Overdue more than 3 years
Rs. 3,01,56,562.00	Rs. 3,03,57,287.00	Rs. 4,72,61,604.00

It may also be noted that the above information has been extracted from the memoranda records only as these are not reflected in the accounts owing to the accounting policy being followed of treating the amounts disbursed as expenditure and amounts refunded as incomes. The total outstanding amount of such repayments that have accumulated over the years have not been reflected in the financial statement of accounts.

2. As per Income Tax Act, 1961 tax is to be deducted either at the time of credit of such sum to the account of the payee, or at the time of payment thereof in cash or by issue of cheque or by any other mode, whichever is earlier. It was observed that TDS has been deducted on payment basis only i.e. at the time when payment has been made to parties.
3. TIFAC owns six floors in Viswakarma Bhawan, a building constructed on the IIT land. For the cleanliness of the building, TIFAC has given a contract for housekeeping of the six floors to M/s Pink Housekeeping. Out of the six floors one floor is occupied by NMBA which is being treated as a separate accounting entity. It is observed that out of the expenditure incurred on housekeeping which has been borne entirely by TIFAC no allocation has been made to NMBA for the purposes of arriving at the appropriate utilization of funds in view of their distinct and separate funding as well as separate accounting entity. To this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the case of NMBA.
4. Similarly the expenses on account of electricity, security services, water and horticulture which has been reimbursed by TIFAC to IIT has not been allocated to NMBA and, therefore, to this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the case of NMBA.
5. NMBA has granted TDA to various companies incorporated under the Companies Act. But we have observed that the particular of the security which has been provided to NMBA against the TDA given to various such companies has not been registered with Registrar of Companies in some of the cases. In the absence of registration of charge, the security furnished by the company would have no value.
6. Audited financial statements/utilization statements duly certified by Chartered Accountants in respect of grant utilized/released during the year has not yet been received in some cases from the implementing agencies.
7. Insurance Policy and Insurance Premium payment receipt related to hypothecated assets have not been received by NMBA from the beneficiaries in some of the cases observed by us.



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

8. A Sum of Rs.4,62,676/- has been paid and booked as expense during the current year while these expenses relates to previous financial years for which no provision had been made in those previous years. Hence the surplus for the current financial year has been reduced to the extent of Rs. 4,62,676/- on account of expenditure pertaining to the previous years.
9. Sum of Rs. 13,000/- has been paid in financial year 2011-12 to M/s Matrix Instruments Private Limited as AMC charges for UPS for the period 16th August 2011 to 15th August 2012. But the expense has not been bifurcated between current year expense and prepaid expense.
10. On the analysis of the schedules forming part of the Balance Sheet of NMBA and as per the information provided to us the following amounts are outstanding under the head Current Assets, Loans & Advances (schedule 11) since long time which have not been settled so far:-

S. No.	Particulars	Amount	(Rs.)
1.	Tour Advance – Sh. Sudhir Pande		8000.00
	Total		8000.00

11. In addition to the medical expenses paid towards the medical treatment of the employees and their family members on the lines of the CGHS scheme, a reimbursement is also being made on the basis of other medical bills submitted by the employees, subject to limits (with a maximum of Rs. 15000/-) fixed for each employee as per the Pay plus Grade Pay of the employee. This expenditure which is not in line with the CGHS scheme would be covered under proviso (v) of sub-section 2(viii) of section 17 of Income tax Act, 1961 and, therefore, any expenditure so incurred beyond the limit of Rs. 15000/- prescribed under the said provisions would be taxable as a perquisite on which tax is required to be deducted at source. It is observed that NMBA have not complied with the aforesaid provisions of Income Tax Act.
12. During audit we have observed that two employees on the payroll of TIFAC are working in NMBA getting Basic Salary, HRA, Other allowances etc. from TIFAC and medical expenses, tuition fee reimbursement etc. from NMBA. These payments were booked as expenditure respectively by TIFAC & NMBA to the extent paid by them. The total cost of the above employees should be borne by NMBA instead of partly by TIFAC & partly by NMBA in order to reflect actual utilization of funds by the respective accounting entity.
13. NMBA purchased bamboo flooring/products amounting to Rs. 26,66,246/- during the year and sold some of the stock to SERB amounting to Rs. 14,52,920/-. However, no account has been maintained/taken of the stock in hand as at the end of the financial year on 31.03.2012. Instead, it has booked both the purchases and sale of bamboo stock under the ledger head **Warehouse for storage of bamboo-NCMSL** (*Group- Development of Technology-Grant, Direct Expenses*) and treated the balance as expenditure along with the expenses incurred for rental charges and survey charges for the warehouse which have also been debited to that account as per the details given below. The same procedure had been followed by NMBA during the last year as well, due to which no account was taken of the closing stock of Bamboo flooring/products held at the godown as on 31.03.2011. This methodology of recording needs to be re-examined in the interests of maintaining adequate accounting control.
14. Advance to Arunachal Plywood Industries Limited and House Building Advance amounting to Rs. 1,60,520/-, and Rs. 5,50,000/- respectively has been outstanding since last year under Schedule 11 - Loans & Advance and recovery from the respective accounts are still pending.
15. On sample checking of the following cases of TDA, we have observed as follows:



A) Technology Assessment – Loan (Direct Expenses)

to

M/s Bangloi Bamboo Mat Manufacturing Unit

{Financial Support: Rs. 12.34 lacs - 1st installment of Rs. 6 lacs has been released on 27th May 2011}

Proposal was received from M/s Bangloi Constructions to set-up a bamboo processing facility for Bamboo Mat at an installed capacity of 36000 under the name M/s Bangloi Mat Manufacturing Unit, Nagaland (proposed partnership firm)

- a) Bangloi Constructions is an existing proprietorship firm. The Balance Sheet of the said firm has been received for 2 financial years 2007-08 & 2008-09.

- *latest balance sheet for the financial year 2009-10 has not been received before considering the proposal*

- b) Copy of SSI Registration has not been obtained. only acknowledgement for applying for SSI registration is available in the file, having remark as follows

“The issue of acknowledgement does not bestow any legal right. The enterprise is required to seek requisite clearance from the department.”

- c) One of the conditions in the TDA agreement is that the firm shall maintain separate accounts of the contributions made by NMBA and the FIRM for the PROJECT and shall furnish to NMBA half yearly statement of accounts on the expenditure incurred on the “Project”, duly certified by the Accounts Authority of the “Firm” and yearly expenditure statement duly audited by the External Auditor of the firm.

- *No such statement of accounts has been received by NMBA from the said firm.*

B) M/s SVM Bamboo Ply Private Limited

{Financial Support: Rs. 70 lacs has been released till 15th Oct. 2007}

Proposal was submitted by M/s Ply Boo Industries (firm promoted by Smt. Mami Kumari Nayak & Shri M. K. Mahapatra) now known as M/s SVM Bamboo Ply Private Limited for expansion of its existing facilities for Bamboo Mat composites corrugated sheet at Mohuda

As per the noting sheet: M/s Ply Boo Industries has been converted into SVM Bamboo Ply Private Limited and the assets of the Ply Boo Industries have been taken over by SVM after such conversion.

Mr. Joe Madinath in 1980 has leased the assets of an NGO named as Gram Vikas to M/s Ply Boo Industries and on conversion of M/s Ply Boo Industries to SVM Bamboo Ply Private Limited the said leased assets has been transferred to SVM.

- a) Lease deed between Mr. Joe Madinath of Gram Vikas (NGO) & Smt. Mami Kumari Nayak of Ply Boo Industries dated 12th September 2002 has been found, but when Ply Boo Industries has been converted into SVM a new lease deed which was required to be entered into with SVM was not available in records.

As per lease deed between Mr. Joe Madinath of Gram Vikas (NGO) & Smt. Mami Kumari Nayak of Ply Boo Industries:



Pt. 2(b) the second party(Smt. Nayak) also agree not to sub-lease, rent, mortgage or encumber the industry in any manner nor to make any alterations, renovations thereon, without prior intimation to and written concurrence from the first party (Mr. Joe)

- *From the records seen by us no such intimation and written concurrence from the first party i.e. Mr. Joe has been obtained*

b) NMBA's contribution in the proposed expansion scheme will be 56% of the total expansion scheme (including the cost of existing equipments)

125 lacs *56%=70lacs

- *cost of existing equipments has also been considered while considering the scheme of **expansion***

c) As per the sanction of the project, before releasing of TDA, the Company would ensure approval of the required working capital from the Bank

- *this condition has not been fulfilled*

d) As per sanction document, 1st installment to be released after signing of TDA agreement & after the company provides hypothecation of equivalent amount.

- *Date of TDA agreement: 04.09.2006*

- *1st installment release on 08.09.2006*

- *Date of hypothecation : 14.01.2007*

The 1st installment was released before hypothecation of respective assets in favour of NMBA as result of which the above condition was not fulfilled

e) *No insurance policy or insurance premium receipt has been received by NMBA in relation to hypothecated assets in favour of NMBA*

f) *Status as on 13th June 2012 Rs.7,67,100/- has been received and Rs. 51,95,868/ is an outstanding amount. NMBA has issued notice to SVM u/s 138.*

C) M/s Konkan Speciality Poly Products Private Limited

{Financial Support: Rs. 413 lacs whole amount released}

Proposal for setting up a project for manufacture of Bamboo fibre based Thermoplastics at Mangalore

a) Total project cost includes purchase of imported goods and indigenous goods. After that 5% was added for currency fluctuation on both imported as well as indigenous goods, but currency fluctuation is possible only in the case of imported goods and not in the case of indigenous goods and, hence, accordingly 5% addition on indigenous goods is not correct.

b) Hypothecation deed has been created in favour of NMBA by Kokan Speciality for Rs. 413 lacs

As per hypothecation deed Company shall insure the Plant & Machinery in the joint name of Company & NMBA as provided in the agreement against any loss or damage by theft, fire, lightning, earthquake, explosion etc.



Company shall deliver to NMBA the relevant policies of insurance duly assigned to NMBA

- *Insurance policy is available for the period 06.08.2009 to 05.08.2010 and not for rest of the period*
- c) *Audited financial statement has not been received after 31st March 2008 i.e. for year ended on 31st March 2009, 2010, 2011 & 2012*
- d) *Quarterly/yearly progress report has not been received by NMBA*

D) M/s Maisang Products Private Limited

{Financial Support: Rs. 250 lacs released till 19.07.2007}

Funding of Total project cost of Rs. 578 lacs

- i) Rs. 188 lacs by way of Promoter's Contribution
- ii) Rs. 250 lacs from TIFAC
- iii) Rs. 140 lacs from EXIM Bank

Rs. 578 lacs

Third party certificate has been submitted by Maisang at various point of time certifying the promoter's contribution of proportionate amount of total project cost. As per various certificates related to promoter's contribution and audited financial statements submitted by Maisang, the contribution has been standing from 2006 till the date of our audit as **share application money pending for allotment** and the paid up capital of Maisang since incorporation till date is standing as Rs. 100,000/- **which is not the true sign of promoter contribution.**



**NATIONAL MISSION ON BAMBOO APPLICATIONS
TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL
REPLIES TO AUDIT OBSERVATIONS “ANNEXURE AR 3”**

1. The TDA given to various Implementing Agencies, Company/ firms are being vigorously monitored and pursued. Legal action as per provision of TDA repayment agreements has been initiated in most of the cases. Repayment of TDA in instalments is being received from different companies/firms during the year.
2. NMBA has booked expenses when payments are due or company has raised bills and TDS has been deducted on such payment basis & deposited within 7th day of following month.
3. NMBA is a Technology Mission with finite life. All six floors in Vishwakarma Bhawan are allotted and under control of TIFAC. Cleanliness of the building is the responsibility of TIFAC. Housekeeping contract is called for the maintenance of the building by TIFAC. Similarly Electricity, Security Services, Water and horticulture are also the responsibility of TIFAC. As NMBA is part of TIFAC, there is no need for allocation of expenditure even though their accounting is separately maintained. Funds to both i.e. NMBA as well as TIFAC are provided by DST.
4. This point has been covered above under point 3. However, it is reiterated that TIFAC is the parent organization with legal status. NMBA is one of the missions under TIFAC with finite life. Mission's life is co-terminus with the plan. For the purpose of operative convenience the accounts of NMBA were segregated from TIFAC in 2005. Prior to 2005, the activities of the bamboo application technologies and projects were being booked in TIFAC's accounts.
5. In TDA sanction cases, the security in repayable mode of TDA is by way of hypothecation of equipment and its registration with concerned ROC in case of Companies. In cases of partnership firms/proprietary concern, deed of hypothecation is executed by the agencies and submitted to NMBA. There are few cases in which hypothecation is not registered with concerned ROC because of ignorance of the company directors, delay in on-line filing of hypothecation resulting in a long process through Company Law Board.
6. Audited financial statement/utilization certificate duly certified by Chartered Accountant for the previous release made by NMBA is usually received from the implementing agencies only with the request for subsequent installment.
7. Companies/firms supported with TDA are being regularly followed up for getting the NMBA funded assets insured and submit a copy of the insurance policy (to NMBA).
8. The sum of Rs 4,62,676/- are all previous period expenses of which payment is made when bills are raised and they are invariably related to administrative / sundry expenses. The point is noted for future compliance as far as possible.
9. The point is noted for compliance in future.
10. In connection with outstanding long term advance, it is stated that the same shall be settled in the current financial year.
11. The Medical reimbursement is extended to NMBA staff on the basis of CGHS scheme of Central Government. NMBA staff is receiving what other Central government institutions are getting. The point is noted for compliance in future.
12. In connection with services of Sh. Shambhu Kumar and Ms. Suja S. George were taken by NMBA from TIFAC on loan basis to meet the urgent requirement of account related work at the time of mission initiation. The term and



conditions were not defined. It has, however, ensured that no duplicate/double payments are made to them under medical, tuition fee and other reimbursement. Complete payment of Salary, HRA and all allowance as above can be done only when Sh. Shambhu kumar and Ms. Suja S George are taken on deputation by NMBA. However since no posts have been sanctioned for NMBA by MOF, so the two TIFAC pool staff cannot be taken on deputation. Several DST staff members with similar service condition are continuing in TIFAC since last more than 20 years.

13. NMBA is a research and technology related organization for development of bamboo products, processes and technologies. To promote the products like bamboo flooring, blinds, boards, sticks etc a space has been hired to stock some of these items. This is also to ensure that the products are made available in Delhi at short notice i.e. when the demand arises. In connection with stock at NCMSL most part of bamboo flooring and blinds were purchased for interior works of SERB office. This Expenditure is Outstanding in NMBA a/c, as the reimbursement has not been received from DST. This is in continuation of our product promotion scheme. NMBA has signed MOU with NCMSL for providing storage for bamboo product & provided Insurance, Fire & others risks. The closing stock figure arrived is Rs.406595/- as at 31st March, 2012.
14. The advance given to the two agencies have already been recovered during the current year. Balance adjustment will be done during the current year.
15. The points are noted for compliance in future.



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
BALANCE SHEET AS ON 31.03.2012**

(Amount Rs.)

CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	Current Year	Previous Year
Corpus / Capital Fund	Schedule 1	468,832,832.72	372,794,887.29
Reserves and Surplus	Schedule 2	-	-
Earmarked / Endowment Funds	Schedule 3	-	-
Secured Loans and Borrowings	Schedule 4	-	-
Unsecured Loans and Borrowings	Schedule 5	-	-
Deferred Credit Liabilities	Schedule 6	-	-
Current Liabilities and Provisions	Schedule 7	1,507,444.00	1,986,920.00
TOTAL		470,340,276.72	374,781,807.29
ASSETS			
Fixed Assets (Net)	Schedule 8	3,079,722.85	3,205,033.00
Investments-From Earmarked / Endowment Funds	Schedule 9	-	-
Investments-Others	Schedule 10	-	-
Current Assets, Loans, Advances etc.	Schedule 11	467,260,553.87	371,576,774.29
Miscellaneous Expenditure (to the extent not written off or adjusted)	-	-	-
TOTAL		470,340,276.72	374,781,807.29
Significant Accounting Policies	Schedule 24		
Contingent Liabilities and Notes on Accounts	Schedule 25		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN: 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(NMBA)

Sd/-
Registrar
(NMBA)

Sd/-
Mission Director
(NMBA)

Date : 10.09.2012
Place : New Delhi



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Income & Expenditure Account for the year Ended as on 31.03.2012

(Amount Rs.)

Income	Schedule / Annexure	Current Year	Previous Year
Income From Sales / Services	Schedule 12	-	-
Grants/Subsidies	Schedule 13	250,000,000.00	220,100,000.00
Fees / Subscriptions	Schedule 14	-	-
Income from Investment	Schedule 15	-	-
Income from Royalty, Publication Etc.	Schedule 16	29,335.00	19,175.00
Interest Earned	Schedule 17	15,507,233.00	11,736,376.00
Other Income (Including Partner Cont.)	Schedule 18	108,083,779.50	239,671,833.00
Refund from Projects & Others	Schedule 18 A	29,752,442.00	28,379,658.00
Increase/Decrease in Stock of Finished Goods & Work in Progress	Schedule 19	-	-
TOTAL (A)		403,372,789.50	499,907,042.00
EXPENDITURE			
Establishment Expenses	Schedule 20	8,996,995.00	7,354,794.00
Other Administrative Expenses etc.	Schedule 21	18,346,409.55	20,911,410.00
Expenditure on Grant ,Subsidies Etc.(Project Expenditures)	Schedule 22	279,415,643.37	343,096,336.00
Interest	Schedule 23	-	-
Depreciation on (Net Total at the Year end)	Schedule 8	575,796.15	459,844.00
TOTAL (B)		307,334,844.07	371,822,384.00
Balance being excess of Income over Expenditure (A-B)		96,037,945.43	128,084,658.00
Balance being excess of Expenditure over Income (A-B)		-	-
Balance being Surplus transferred to Corpus/Capital Fund		96,037,945.43	128,084,658.00
Balance being Deficit transferred to Corpus/Capital Fund		-	-
Significant Accounting Policies	Schedule 24		
Contingent Liabilities and Notes on Accounts	Schedule 25		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN: 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(NMBA)

Sd/-
Registrar
(NMBA)

Sd/-
Mission Director
(NMBA)

Date : 10.09.2012
Place : New Delhi



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 1 - Corpus / Capital Fund

(Amount Rs.)

	Current Year	Previous Year
Opening Balance	372,794,887.29	244,710,229.29
Excess of Income Over Expenditure	96,037,945.43	128,084,658.00
TOTAL	468,832,832.72	372,794,887.29
Excess of Expenditure over Income	-	-
TOTAL	-	-
Closing Balance	468,832,832.72	372,794,887.29

Schedule 2 - Reserve and Surplus :

(Amount Rs.)

	Current Year	Previous Year
1. Capital Reserve :		
As per last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
2. Revaluation Reserves :		
As per last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
3. Special Reserve :		
As per last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
4. General Reserve :		
As per last Account	0.00	0.00
Addition during the year	0.00	0.00
Less : Deductions during the year	0.00	0.00
Total	0.00	0.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 3 - Earmarked/Endowment Funds

(Amount Rs.)

	Current Year	Previous Year
a) Opening Balance of the Funds	0.00	0.00
b) Additions to the funds		
i) Donations / Grants	0.00	0.00
ii) Income from Investments made on account of Funds	0.00	0.00
iii) Other Additions (Specify)	0.00	0.00
Total (a+b)	0.00	0.00
c) Utilization / Expenditure towards objectives of funds		
i) Capital Expenditure		
Fixed Assets	0.00	0.00
Other	0.00	0.00
ii) Revenue Expenditure		
Salary, Wages and allowance etc	0.00	0.00
Rent	0.00	0.00
Other Administrative Expenses	0.00	0.00
Total (c)	0.00	0.00
Net Balance as at the year end (a+b-c)	0.00	0.00

Note : 1) Disclosures shall be made under relevant heads based on conditions attached to the Grants.

2) Plan Funds received from Central / State Governments are to be shown as separate Funds and not to be mixed up with any other funds



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 4 - Secured Loans and Borrowings

(Amount Rs.)

	Current Year	Previous Year
1. Central Government	0.00	0.00
2. State Government (Specify)	0.00	0.00
3. Financial Institutions		
a) Term Loans	0.00	0.00
b) Interest accrued and dues	0.00	0.00
4. Banks :		
a) Term Loans		
- Interest accrued and due	0.00	0.00
- Other Loans (Specify)	0.00	0.00
- Interest accrued and due	0.00	0.00
5. Other Institutions and Agencies	0.00	0.00
6. Debentures and Bonds	0.00	0.00
7. Others (Specify)	0.00	0.00
Total	0.00	0.00

Note : Amounts due within one year



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 5 - Unsecured Loans and Borrowings

(Amount Rs.)

	Current Year	Previous Year
1. Central Government	0.00	0.00
2. State Government (Specify)	0.00	0.00
3. Financial Institutions	0.00	0.00
4. Banks :		
- Term Loans	0.00	0.00
- Other Loans (Specify)	0.00	0.00
5. Other Institutions and Agencies	0.00	0.00
6. Debentures and Bonds	0.00	0.00
7. Fixed Deposites	0.00	0.00
8. Others (Specify)	0.00	0.00
Total	0.00	0.00

Note : Amounts due within one year

Schedule 6 - Deferred Credit Liabilities

(Amount Rs.)

	Current Year	Previous Year
a) Acceptances secured by Hypothication of Capital Equipment and other assets	0.00	0.00
b) Others	0.00	0.00
Total	0.00	0.00

Note : Amounts due within one year



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 7 - Current Liabilities and Provisions

(Amount Rs.)

	Current Year	Previous Year
A. CURRENT LIABILITIES		
1. Acceptances	-	-
2. Sundry Creditors:		
a) For Goods	-	-
b) Others		
3. Advance Received	-	-
4. Interest accrued but not due on:		
a) Secured Loans/borrowings	-	-
b) Unsecured Loans /borrowings	-	-
5. Statutory Liabilities:		
a) Over dues	-	-
b) Others	-	-
6. Other current Liabilities		
Salary Payable	666,730.00	555,556.00
Audit Fee Payable	37,079.00	33,090.00
Administrative Expenses Payable	192,578.00	788,274.00
Ms. Majnu Arya	1,057.00	-
Security Retention Money		
Earnest Money Deposit : Anil Enterprises, Dewas	100,000.00	100,000.00
Earnest Money Deposit : Garnet Tools , Dewas	100,000.00	100,000.00
Earnest Money Deposit : OVN Bio Energy P.Ltd. ,Gurgaon	100,000.00	100,000.00
Earnest Money Deposit : Sree Engineers, Hyderabad	100,000.00	100,000.00
Earnest Money Deposit : Deva Bamboo & Allied Ind., Imphal	5,000.00	5,000.00
Earnest Money Deposit : Dhanjal Mechanical Works P. Ltd.	100,000.00	100,000.00
Earnest Money Deposit : Prince Carbon & Charcoal Ind.	5,000.00	5,000.00
Earnest Money Deposit : R.D. industries Corp., Kolkatta	100,000.00	100,000.00
TOTAL (A)	1,507,444.00	1,986,920.00
B. PROVISIONS		
1. For Taxation	-	-
2. Gratuity	-	-
3. Superannuation /Pension	-	-
4. Accumulated Leave Salary / Encashment	-	-
5. Trade Warranties/Claims	-	-
6. Others (Specify)	-	-
TOTAL (B)	-	-
TOTAL (A+B)	1,507,444.00	1,986,920.00



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 8-Fixed Assets

Amount – Rs)

	GROSS BLOCK					DEPRECIATION				NET BLOCK	
	Rate of Depreciation	Cost / valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost / valuation at the year end	Dept. Up to 31.03.10	On Opening Balance	On Additions during the year	Total upto the year end	As at the current year end	As at the previous year end
A. FIXED ASSETS											
1. LAND											
a) Freehold		-	-	-	-	-	-	-	-	-	-
b) Leasehold		-	-	-	-	-	-	-	-	-	-
2. BUILDING											
a) On Freehold Land		-	-	-	-	-	-	-	-	-	-
b) On Leasehold Land		-	-	-	-	-	-	-	-	-	-
c) Ownership Flats/Premises		-	-	-	-	-	-	-	-	-	-
d) Superstructures on Land not belonging to the entity		-	-	-	-	-	-	-	-	-	-
e) Interior Works	10%	3,319,566.00	-	-	3,319,566.00	735,821.00	258,374.50	-	994,195.50	2,325,370.50	2,583,745.00
3. Plant Machinery & Equipment	15%	-	-	-	-	-	-	-	-	-	-
4. Vehicles		-	-	-	-	-	-	-	-	-	-
5. Furniture & Fixtures	10%	103,527.00	15,750.00	-	119,277.00	39,995.00	6,353.20	788.00	47,136.20	72,140.80	63,532.00
6. Office Equipment	15%	372,586.00	227,183.00	-	599,769.00	138,212.00	35,156.10	23,780.00	197,148.10	402,620.90	234,374.00
7. Computer/ Peripherals	60%	1,397,150.00	207,553.00	-	1,604,703.00	1,227,910.00	101,544.00	94,334.00	1,423,788.00	180,915.00	169,240.00
8. Electric Installations		-	-	-	-	-	-	-	-	-	-
9. Library Books	100%	78,438.00	-	-	78,438.00	40,385.00	38,053.00	-	78,438.00	-	38,053.00
10. Tubewell & W. Supply		-	-	-	-	-	-	-	-	-	-
11. Fire Alarm Systems	15%	147,649.00	-	-	147,649.00	31,560.00	17,413.35	-	48,973.35	98,675.65	116,089.00
12. Other Fixed Assets		-	-	-	-	-	-	-	-	-	-
TOTAL OF CURRENT YEAR (A)		5,418,916.00	450,486.00	-	5,869,402.00	2,213,883.00	456,894.15	118,902.00	2,789,679.15	3,079,722.85	3,205,033.00
PREVIOUS YEAR		5,267,102.00	151,814.00	-	5,418,916.00	1,754,039.00	374,600.00	85,244.00	2,213,883.00	3,205,033.00	3,513,063.00
B. CAPITAL WORK IN PROGRESS		-	-	-	-	-	-	-	-	-	-
TOTAL (A+B)		5,418,916.00	450,486.00	-	5,869,402.00	2,213,883.00	456,894.15	118,902.00	2,789,679.15	3,079,722.85	3,205,033.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 9 - Investments from Earmarked/Endowment Funds

(Amount Rs.)

	Current Year	Previous Year
1. In Government Securities	0.00	0.00
2. Other approved Securities	0.00	0.00
3. Shares	0.00	0.00
4. Debentures and Bonds	0.00	0.00
5. Subsidiaries and Joint Ventures	0.00	0.00
6. Others (to be Specified)	0.00	0.00
Total	0.00	0.00

Schedule 10 - Investments - Others

(Amount Rs.)

	Current Year	Previous Year
1. In Government Securities	0.00	0.00
2. Other approved Securities	0.00	0.00
3. Shares	0.00	0.00
4. Debentures and Bonds	0.00	0.00
5. Subsidiaries and Joint Ventures	0.00	0.00
6. Others (to be Specified)	0.00	0.00
Total	0.00	0.00



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 11 - Current Assets, Loans, Advances Etc.

(Amount Rs.)

	Current Year	Previous Year
A. CURRENT ASSETS		
1. Inventories:		
a) Stores and Spares	-	-
b) Loose Tools	-	-
c) Stock-in-trade		
Finished Goods	-	-
Work-in-progress	-	-
Raw Materials	-	-
2. Sundry Debtors:		
a) Debts Outstanding for a period exceeding six months	-	-
b) Others		
3. Cash balances in hand		
(including cheques /drafts and Imprest)	-	-
4. Bank Balances:		
a) With Scheduled Banks:		
On Current Accounts	-	-
On Deposit Accounts (Short term deposits)	-	-
On Savings Accounts	449,178,271.87	370,509,996.29
b) With non-Scheduled Banks:		
On Current Accounts	-	-
On Deposit Accounts	-	-
On Savings Accounts	-	-
5. Post Office-Savings Accounts	-	-
TOTAL (A)	449,178,271.87	370,509,996.29



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

(Amount Rs.)

	Current Year	Previous Year
B. LOANS, ADVANCES AND OTHER ASSETS		
1. Loans	-	-
a) Staff		
HBA Advance:		
HBA Advance: Sh. Shambhu Kumar	550,000.00	550,000.00
Tour Advance:		
Tour Advance : Sh. Sudhir Pande	8,000.00	8,000.00
Tour Advance : Sh. Deepak Chauhan	15,000.00	5,000.00
Tour Advance : Sh. Sanjiv Nair	52,579.00	-
Tour Advance : Sh. Aseem Narain	105,131.00	-
Tour Advance : Sh. Rohit Sharma	75,062.00	-
Petty Cash Advance:		
Petty Cash Advance Sh. Baljit Singh Bansal	7,000.00	5,000.00
b) Other Entities engaged in activities/objectives similar to that of the entity	-	-
c) Others (Specify)	-	-
2. Advance and other amounts recoverable in cash or in kind or for value to be received.		
a) On capital Account	-	-
b) Prepayments for Projects	-	-
c) Others	-	-
Security Deposit :Tata Indicom	200.00	200.00
Advance to Arunachal Plywood Industries Ltd.	160,520.00	160,520.00
Salary Receivable	-	48,936.00
Sundry Advance : Marboh Bamboo Prod. Pvt. Ltd. for marketing of Stick products by Shri Vinayak Industries	-	73,500.00
SERB- Advance for Interior Works at Vasant kunj	16,893,168.00	-
4. Income Accrued		
a) On Investments from Earmarked/ Endowment Funds	-	-
b) On Investment – Others	-	-
c) On Loans and Advances	-	-
d) Others (includes income due unrealized)	-	-
5. Claims Receivable		
TDS (A.Y.- 2010-11)	215,622.00	215,622.00
TOTAL (B)	18,082,282.00	1,066,778.00
TOTAL (A+B)	467,260,553.87	371,576,774.29



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012

Schedule 12 - Income from Sales / Services

(Amount Rs.)

	Current Year	Previous Year
1. Income from Sales		
a) Sale of finished Goods	0.00	0.00
b) Sale of Row Material	0.00	0.00
c) Sale of Scraps	0.00	0.00
2. Income from Services		
a) Labour and Processing Charges	0.00	0.00
b) Professional / Consultancy Services	0.00	0.00
c) Agency Commissions and Brokerages	0.00	0.00
d) Maintenance Services (Equipment/Property)	0.00	0.00
e) Others (Specify)	0.00	0.00
Total	0.00	0.00

Schedule 13 - Grants / Subsidies (TIFAC)

(Amount Rs.)

	Current Year	Previous Year
1. From Central Government		
A) NMBA Grant		
Grants in Aid (Plan)	250,000,000.00	220,100,000.00
Grant in Aid (Non-Plan)	0.00	0.00
2. State Government(s)	0.00	0.00
3. Government Agencies	0.00	0.00
4. Institutions Welfare Bodies	0.00	0.00
5. International Organisations	0.00	0.00
6. Other (Specify)	0.00	0.00
Total	250,000,000.00	220,100,000.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012**

Schedule 14 - Fees / Subscriptions

(Amount Rs.)

	Current Year	Previous Year
1. Entrance Fees	0.00	0.00
2. Annual Fees / Subscriptions	0.00	0.00
3. Seminar / Program Fees	0.00	0.00
4. Consultancy Fees	0.00	0.00
5. Others (Specify)	0.00	0.00
Total	0.00	0.00

Schedule 15 - Income from Investments

(Income on Invest. From Earmarked/Endowment Funds transferred to Funds)

(Amount Rs.)

	Current Year	Previous Year
1. Interest		
a) On Govt. Securities	-	-
b) Other Bonds/Debentures	-	-
2. Dividends:		
a) On Shares	-	-
b) On Mutual Fund Securities	-	-
3. Rents	-	-
4. Others (Specify)	-	-
TOTAL	-	-
TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS	-	-



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 16 - Income from Royalty, Publication Etc.

(Amount Rs.)

	Current Year	Previous Year
1. Income from Royalty	-	-
2. Income from Publications	29,335.00	19,175.00
3. Others (Specify)	-	-
TOTAL	29,335.00	19,175.00

Schedule 17 - Interest Earned (Regular)

(Amount Rs.)

	Current Year	Previous Year
1. On Term Deposits:		
a) With Scheduled Banks	531,487.00	-
b) With Non-Scheduled Banks	-	-
c) With Institutions	-	-
d) Others	-	-
2. On Savings Accounts:		
a) With Scheduled Banks	14,975,746.00	11,736,376.00
b) With Non-Scheduled Banks	-	-
c) Post Office Savings Accounts	-	-
d) Others	-	-
3. On Loans:		
a) Employees/Staff	-	-
b) Others (Long term advances)	-	-
4. Interest on Debtors and Other Receivables	-	-
TOTAL	15,507,233.00	11,736,376.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012**

Schedule 18 - Other Income

(Amount Rs.)

	Current Year	Previous Year
1. Profit on Sale/ disposal of Assets		
a) Owned assets	-	-
b) Assets acquired out grants, of received free of cost	-	-
2. Export Incentives realized	-	-
3. Fees for Miscellaneous Services	-	-
4. Miscellaneous Income		
Other Receipt (RTI)	50.00	-
Misc. receipt from bamboo material stores	246,041.50	1,781,240.00
Project Grant Unspent Balance Refund		
DFI: Tura (Unspent balance for Est. of bamboo shoot unit)	-	15,000.00
GBPAU: Pant Nagar (Unspent balance for project of Multi Locational)	-	8,570.00
Project Contribution/subsides for demonstration of Structure		
Prefab Partner Cont. from CRPF, Shivpuri (32)	6,518,216.00	-
Prefab Partner Cont. from CRPF, Ranchi (10)	3,990,303.00	-
Partner Contributions of prefab structure from Gargi College,Delhi	-	789,788.00
Partner Contribution of prefab Strt. from Govt. of Degree College Mandi	5,091,840.00	7,270,000.00
Partner Contribution of prefab Structure from Govt. of Manipur Education	-	70,440,000.00
Partner Contribution of prefab Structure from Ledi Sriram College, Delhi	-	522,930.00
Partner Contribution from Kamala Nehru College, New Delhi	712,800.00	-
Partner Contribution from Kendriya Vidalya Sangathan , New Delhi	4,692,600.00	-
Partner Contribution from Rajsthan Council of Elementry Education	4,560,000.00	-
Partner Contribution from Shivaji College ,New Delhi	3,503,360.00	-
Partner Contribution from J&K Police ,Sri Nagar	31,081,025.00	-
Partner Contribution from ITBP, Shiv Ganga, Tmilnadu	1,803,092.00	-
Partner contribution from DC, Jhiri , Mandi	424,800.00	-
Partner contribution from Maitereyi College,New Delhi	-	839,558.00
Partner Contribution from Atma Ram Sanatan Dharam College, New Delhi	-	2,061,439.00
Partner Contribution from CRPF, Hyderabad (23)	4,968,886.00	-
Partner Contribution from CRPF, Vidya Nagar, Rajsthan	809,682.00	-
Partner Contribution from CRPF, Nagpur, Raipur (41)	7,926,084.00	-
Partner Contribution from CEO,Serve Siksha Abhiyan, Nandurbar	31,755,000.00	-
Partner Contribution from ILF&S and TBM, Tripura	-	10,848,136.00
Partner Cont. from 110 B/Stc. from CRPF- Chhatishgardh	-	19,200,852.00
Partner Cont. from Distt. Officer Education, Dakshin Bastar ,Chhatishgardh	-	108,126,720.00
Partner Contribution from Shaheed Bhagat Singh College,	-	4,767,600.00
Partner Cont. from from SAS,Project Coordinator- Bijapur & others	-	13,000,000.00
TOTAL	108,083,779.50	239,671,833.00

**Schedule 18 A - Refunds from Projects & Others**

(Amount Rs.)

	Current Year	Previous Year
Refund: AAI Vally Carbon Pvt. Ltd., Dhali Gaon	20,000.00	-
Refund: ABCPL, Est. of Bamboo Durosam / Igloo Unit, Kolkata	2,750,000.00	2,750,000.00
Refund: Basera Building Centre, Bhopal	159,000.00	79,500.00
Refund: Banik Agro Forest Products P. Ltd., Agartala	-	1,215,000.00
Refund: Barak Bamboo Cane & Craft P. Ltd, Bamboo Cane Unit, Silchar	100,000.00	60,000.00
Refund: Brahmputra Enterprises , Guwahati	10,000.00	-
Refund: Craftique Bamboo , Nagon	-	20,000.00
Refund: Ceeke Bamboo & Wood Products P.Ltd., Aizwal	37,000.00	-
Refund: Deva, Imphal Sliver & Furniture unit at Imphal (NEDFI)	639,146.00	-
Refund: Dimru Food Industries, Tura	-	10,000.00
Refund: Devine Bamboo Mat Mfg. Pvt. Ltd. ,	200,000.00	100,000.00
Refund: DMWPL, Secondary bamboo Industries, Kolkata	900,000.00	200,000.00
Refund: Erore Way Pvt. Ltd., Nagpur	18,625.00	38,750.00
Refund: Excel Bamboo Enterprises, Kohima	178,800.00	178,800.00
Refund: GT, Dewas mach. Instrument for better Qty.	680,000.00	680,000.00
Refund: Grace RTP Bamboo P. Ltd., Mizoram	2,900,000.00	-
Refund: Genetic Green Gold Pvt. Ltd.,	10,000.00	-
Refund: Gopal Bharoi Tea Company, Guwahati	280,000.00	-
Refund: HPC, Kolkatta for Tissue Culture Laboratory	750,000.00	750,000.00
Refund: HPC, Nagon Paper Mills Ltd. for Bamboo Dust Gassifire	-	3,500,000.00
Refund: Kerla State Bamboo Corp. Ltd., Angamaliya	-	-
Refund: Konkan Specialities for thermo plastic unit at Mangalore	6,450,000.00	4,200,000.00
Refund: Kosons Forest Products Pvt. Ltd., Guwahati	-	-
Refund: Luit Valley Food processing P.Ltd.,Jorhat (add)	560,000.00	458,400.00
Refund: Luit Valley Food processing P.Ltd.,Jorhat (NEDFI)	244,601.00	650,000.00
Refund: Manipur Craft & Bamboo Works	50,000.00	-
Refund: Massing Product P. Ltd., Bamboo Board Unit at Guwahati	325,000.00	150,000.00
Refund: Marboh Bamboo Product P. Ltd.,Bamboo Board unit at Meghalaya	102,500.00	-
Refund: Mizoram Joss Stick Industries,	135,000.00	5,000.00
Refund: M. L. Commodities, Mumbai	187,000.00	93,500.00



Schedule 18 A - Refunds from Projects & Others

(Amount Rs.)

	Current Year	Previous Year
Refund: Malsom Bamboo Pvt. Ltd., Mizoram	-	200,000.00
Refund: M. L. Incense Pvt. Ltd. , Mumbai	200,000.00	-
Refund: Manjuridge	5,000.00	-
Refund: Nano Steel Pvt. Pvt. Ltd.,	1,015,067.00	-
Refund: North East Pure Beverages P.Ltd.,Dimapur	710,000.00	710,000.00
Refund: Native Konac Bamboo Products Pvt.Ltd.,	275,000.00	-
Refund: New Zone Bio Products Pvt. Ltd.,	692,109.00	-
Refund: NFPL, Nagaland 1800TPA Bamboo Shoot project	350,000.00	122,944.00
Refund: Patkai Bamboo P. Ltd., Est. of Bamboo Board unit at Chongkham	600,000.00	-
Refund: Prince Charcoal & Carbon Ind. Najibabad	145,000.00	634,000.00
Refund: P.S. Green Gold Bamboo Industries, Tripura	20,000.00	64,855.00
Refund: Rahino Bamboo Industries, Est. of Bamboo Unit at Guwahati	412,494.00	3,177,109.00
Refund: Rity Foods Processing P.Ltd.,Guwahati	120,000.00	15,000.00
Refund: Swaranga Agrotech P. Ltd.: Est. of Bamboo Board Unit-Tinsukia	60,000.00	-
Refund: Suta Bamboo Ind. Namsai	10,000.00	40,000.00
Refund: Sree Govind Industries, Est. of Bamboo mat unit, Sindudurg	75,000.00	-
Refund: Srvari Metal Works Pvt. Ltd., Hosure	3,696,000.00	4,620,000.00
Refund: Sri Dharamsthala Siri Gramudhyoge Samiti, Karnataka	1,100,000.00	1,100,000.00
Refund: St. Xavier's for Gassifire Unit at Bisram Ganj	100,000.00	-
Refund: SVM Bamboo Ply & Mat Unit at Behra	196,000.00	25,000.00
Refund: Shailesh Nursery Farm, Est. of plantation Farm unit-Kolhapur	-	336,000.00
Refund: SPF Bongaigaon-sliver making unit	-	-
Refund: TBI, Est. of Bamboo Mat Unit at Tezu	-	100,000.00
Refund: Vedha Mechanized profess unit at Nagpur	50,000.00	300,000.00
Refund: Vighnraj Bamboo Products P. Ltd., Guwahati	163,300.00	171,700.00
Refund: WMIPL, Ludhiana for Adv. Machine Mfg. Unit	1,300,000.00	1,200,000.00
Refund: Zocraft Bamboo P. Ltd., Aizwal	60,000.00	5,000.00
Refund: Zonun Mat Ply P.Ltd., Est. of Stick making unit at Mizoram	710,800.00	210,000.00
Refund: ZBI Bamboo Processing Flattened bamboo Unit at Lohit	-	209,100.00
TOTAL	29,752,442.00	28,379,658.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012**

Schedule 19 - Increase / (Decrease) in Stock of Finished Goods & Work in Progress

(Amount Rs.)

	Current Year	Previous Year
a) Closing Stock		
- Finished Goods	0.00	0.00
- Work-in-Progress	0.00	0.00
b) Less : Opening Stock		
- Finished Goods	0.00	0.00
- Work-in-Progress	0.00	0.00
Net Increase/(Decrease) [a-b]	0.00	0.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012**

Schedule 20 - Establishment Expenses

(Amount Rs.)

	Current Year	Previous Year
1. Salaries	7,632,500.00	6,338,266.00
2. Allowances and Bonus	22,360.00	17,270.00
3. Employer Contribution to Provident Fund	473,942.00	223,724.00
4. Salary Arrear - 6th Pay Commission	-	148,917.00
5. Expenses on Employees' Retirement and Terminal Benefits	-	-
6. Others (Specify)		
Consultancy Charges	-	15,000.00
Honorarium	10,000.00	1,500.00
Medical Reimbursement	696,873.00	431,942.00
Leave Travel Concession	82,400.00	-
Leave Salary	-	33,600.00
Tuition Fee	60,955.00	67,000.00
Pension Contribution	-	61,410.00
Periodical & Magazine Expenses	17,965.00	16,165.00
TOTAL	8,996,995.00	7,354,794.00



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012

Schedule 21 - Administrative Expenses Etc

(Amount Rs.)

	Current Year	Previous Year
a) Repairs and Maintenance	335,466.00	285,866.00
b) Rent, Rates and Taxes	-	-
c) Car Hire Charges	3,500,327.00	3,021,965.00
d) Postage & Courier Charges	88,528.00	66,182.00
e) Printing and Stationary	947,873.00	1,003,804.00
f) Traveling Expenses (Domestics)	2,010,273.00	2,152,423.00
g) Expenses on Seminar/Workshops /Others Exp.(D)	6,205,608.00	10,281,818.00
h) Meeting Expenses	398,965.00	702,127.00
i) Expenses on Fees	-	-
j) Auditors Remuneration	40,388.00	33,090.00
k) Advertisement and Publicity	240,000.00	538,775.00
l) Conveyance Charges	203,460.00	131,568.00
m) Telephone and Communication Charges	170,755.00	157,322.00
n) Internet Charges	456,347.00	406,281.00
o) Subscriptions for Magazines	-	-
p) Maintenance of Vishwakarma Bhavan	-	-
q) Loss on sale of Fixed Assets	-	-
r) Legal & Professional Charges	193,520.00	52,500.00
s) Travel Abroad	2,575,360.00	1,537,282.00
t) International Conference /Workshop	398,845.00	-
u) Others (Specify)		
MISC. Office Expenses	572,315.00	484,420.00
Patent Charges	-	48,900.00
Bank Charges	8,379.55	7,087.00
TOTAL	18,346,409.55	20,911,410.00



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Income & Expenditure for the year
Ended 31.03.2012**

Schedule 22 - Expenditure on Grants, Subsidies Etc.

(Amount Rs.)

	Current Year	Previous Year
a) Grants given to Institutions/Organizations		
Project Expenditure Grant (Annexure-A)	23,576,855.37	120,151,269.00
Project Expenditure on Partners Contributions (Annexure-B)	162,045,079.00	128,181,198.00
Project Expenditure Loan (Annexure-C)	93,793,709.00	94,763,869.00
b) Subsidies given to Institutions/Organizations	-	-
TOTAL	279,415,643.37	343,096,336.00

Schedule 23 - Interest

(Amount Rs.)

	Current Year	Previous Year
a) On Fixed Loans (Including Bank Charges)	0.00	0.00
b) On Other Loans (Including Bank Charges)	0.00	0.00
c) Others (Specify)	0.00	0.00
Total	0.00	0.00



National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Account for the year ended 31.03.2012

Schedule - 24

SIGNIFICANT ACCOUNTING POLICIES

1. The Mission has adopted the Hybrid System of accounting i.e. combination of Cash Basis and Accrual Basis accounting.
2. Fixed assets are stated at cost less accumulated depreciation. Cost comprises the purchase price and any attributable cost of bringing the asset to its working condition for its intended use.
3. Depreciation on fixed assets is computed on the written down value (WDV) method at the rates and in the manner prescribed under the provisions of Income Tax Act.
4. Prior period expenditure, extra-ordinary items and changes in accounting policies having material impact on the financial statements of the Mission are required to be disclosed.
5. Amounts released under various projects are accounted as expenditure for the year in which the same are released, irrespective of the fact that the amounts so released may not have been fully utilized towards the projects during the year.
6. Unspent amount of grant received during the year has been transferred to Corpus/Capital Fund.
7. The repayment of grant/assistance to NMBA by the beneficiaries, as per the conditions stated in the agreement is accounted on receipt basis.
8. All disbursements (irrespective of its utilization) for projects are treated as expenditure during the Financial Year and assets if any created/purchased by the beneficiaries, out of the said disbursements to the project, are not accounted for as assets in the books of accounts.
9. Contingent liabilities in respect of on-going projects/studies etc. are neither provided nor determined.
10. Total expenditure is not bifurcated into plan and non-plan expenditure in the financial statements.

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN: 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Date : 10.09.2012
Place : New Delhi

Sd/-
Accounts Officer
(NMBA)

Sd/-
Registrar
(NMBA)

Sd/-
Mission Director
(NMBA)



**National Mission on Bamboo Applications
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Account for the year ended 31.03.2012**

Schedule 25- Contingent Liabilities and Notes on Accounts (Illustrative)

1. **CONTINGENT LIABILITIES**

- 1.1. Claims against the Entity not acknowledged as debts – Rs. ___NIL___ (Previous year Rs. ___NIL___)
- 1.2. In respect of
- Bank guarantees given by/on behalf of the Entity – Rs. ___NIL___ (Previous year Rs. ___NIL___)
 - Letters of Credit opened by Bank on behalf of the Entity – Rs. ___NIL___ (Previous year Rs. ___NIL___)
 - Bills discounted with banks Rs. ___NIL___ (Previous year Rs. ___NIL___)
- 1.3. Disputed demands in respect of :
- Income-tax Rs. ___NIL___ (Previous year Rs. ___NIL___)
- Sales-tax Rs. ___NIL___ (Previous year Rs. ___NIL___)
- Municipal Taxes Rs. ___NIL___ (Previous year Rs. ___NIL___)
- 1.4. In respect of claims from parties for non-execution of orders, but contested by the Entity – Rs. ___NIL___ (Previous year Rs. ___NIL___)

2. **CAPITAL COMMITMENTS**

Estimated value of contracts remaining to be executed on capital account and not provided for (net of advances) Rs. ___NIL___ (Previous year Rs. ___NIL___)

3. **LEASE OBLIGATIONS**

Future obligations for rentals under finance lease arrangements for plant and machinery amount to Rs. ___NIL___ (Previous year Rs. NIL)

4. **CURRENT ASSETS, LOANS AND ADVANCES**

In the opinion of the Management, the current assets, loans and advances have a value on realization in the ordinary course of business, equal at least to the aggregate amount shown in the Balance Sheet.

5. **TAXATION**

In view of there being no taxable income under Income-tax Act 1961, no provision for Income Tax has been considered necessary.



(Amount-Rs.)

6. FOREIGN CURRENCY TRANSACTIONS	Current Year	Previous Year
6.1 Value of Imports Calculated on C.I.F. Basis:		
Purchase of finished Goods	Nil	Nil
Raw Materials & Components (Including in transit)	Nil	Nil
Capital Goods	Nil	Nil
6.2 Expenditure in foreign currency:		
a) Travel	Rs. 6,58,075/-	—
b) Remittances and Interest Payment to Financial Institutions/ Banks in Foreign Currency	Nil	Nil
c) Other expenditure:		
- Commission on Sale	Nil	Nil
- Legal and Professional Expenses	Nil	Nil
- Miscellaneous Expenses	Nil	Nil
6.3 Earning:		
Value of Exports on FOB basis	Nil	Nil
6.4 Remuneration to Auditors:		
- Auditors Fee	37,079.00	33,090.00
- Taxation matters	Nil	Nil
- For management services	Nil	Nil
- For certificate	Nil	Nil
- Others	Nil	Nil
7. Stocks of Publications and studies which are published and printed by the NMBA and distributed at a cost are not accounted for as stock in hand at the end of the year.		
8. Sale of bamboo material out of opening physical stock brought forward from last year amounting to Rs. 2,46,041.50 by NMBA has been accounted in Schedule 18 - Other Income instead of Schedule 12 -Income from sales.		
9. Liability towards gratuity payable on death/retirement of employees is not provided for.		
10. Provision for accumulated leave encashment benefit to employees is not being made since it shall be accounted for on cash basis.		
11. Some portion of Grant-in-aid for the year 2011-12 has been diverted and utilized for other projects though funding have been received subsequently from the implementing agency.		
12. Previous year's figures have been regrouped/rearranged wherever found necessary, to make them comparable with current year figures.		
13. Schedules 1 to 25 are annexed to and form an integral part of the Balance Sheet as at 31.03.2012 and the Income and Expenditure Account for the year ended on that date.		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN: 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(NMBA)

Sd/-
Registrar
(NMBA)

Sd/-
Mission Director
(NMBA)

Date : 10.09.2012
Place : New Delhi



NATIONAL MISSION ON BAMBOO APPLICATIONS
Project Expenditure Grand in Aid (Project)
1st April, 2011 to 31st March, 2012

(Amount Rs.)

Particulars	Current Year	Previous Year
Est. of Kiline Mfg. and Production unit by Bodoland bamboo Development Board at Udalguri .	80,000.00	-
ILD:Est. of bamboo farm demonstration & training with plantation cost of 10 hector with Institute of Leader Ship Dept., Jaipur	1,515,657.00	-
Ggfppl: Product Promotion Grant for bamboo shoot at The Bamboo Store, Delhi & others.	380,000.00	661,090.00
Kanak: Marketing of Bamboo Products with Kanak Export India LLC , Fort wayn USA	2,353,330.37	-
Inomy :Development of NMBA Website on the Basis of already developed content structure & design Interface by Inomy Media.	316,453.00	297,000.00
Training Centre : Est. Of Bamboo Training Centre by CBTPD, at Muktanagar, Raipur	-	1,601,745.00
Training Centre : Establishment by UBFDB at CBTPD, Paniyali, Kotdwar	1,001,175.00	2,657,373.00
TBS,ND:- Marketing of Bamboo Products at Delhi	675,000.00	697,800.00
Prefab Puf structure for State council of Science & Tech. & enviornment for cold storage of vegetables at three location in Meghalya	800,000.00	-
Minhaz : Folk tales on bamboo from across India as 1000 books and hard copy for NMBA demonstration .	175,000.00	-
setting of three cold storage puf through Haryan Horticulture department in the area at Sirsa , Karnal and Panchkula (ABC)	800,000.00	-
S.Infotech: Development of E- larning cources on bamboo through easy authorising with CD .	150,000.00	-
Product promoting scheme of Bamboo composite and wood substitute.	574,650.00	-
Testing Charges for bamboo products	101,477.00	455,115.00
Teri: Vitro regeneration of Economically B. ,Spice;s D. Giganteus, Bambusa etc.	-	718,840.00
Prefab Structure at NEHU ,Shilong project	-	1,693,993.00
SRF,LKO : Film & Multimedia Presentation of NMBA	2,651,420.00	2,705,106.00
DS: Training Centre/ programme on stick,mat weaving through Development of Society at Temlong Disst.	527,000.00	-
Inomy: Marketing Support Portal for Indian Bamboo Products., New Delhi	-	357,500.00



(Amount Rs.)

	Current Year	Previous Year
NBDA: Establishment of Micro Processing unit in Bamboo Cluster Village.	-	1,400,000.00
Demonstration of bamboo products as flooring, tiles for NMBA store at NCMSL, New Delhi.	1,925,062.00	3,040,814.00
EGW: Skill Up gradation & Development training of Women bamboo artisans at Meghalya .	300,000.00	485,000.00
Training Centre: Society for Disability Rehabilitation Studies, New Delhi for Madhubani, Teghra, Khatunna in Bihar.	-	150,000.00
Training Centre for Kudal through Konkan Bamboo & Cane Development Centre at Kudal .	-	2,242,717.00
Training Centre for Ahmedabad through TAPI bamboo development centre, Ahmedabad	352,205.00	2,340,548.00
AEPL: Development of proposed on CNG/Electric City Taxi using bamboo Composite & Plastics.	-	407,138.00
Bhaskar F: Market Skill Development & Training Program at Balia in Bihar through Bhaskar Foundation.	-	33,900.00
EF: Setting of New bamboo Store through Eklavya Foundation at Ahmedabad.	800,000.00	700,000.00
IWST: Development of cellulose Nano Whiskers from bamboo as import of machine at Bangalore	-	566,374.00
JU: R&D project on bamboo technology with NBC & CPWD through Jadavpur University, Kolkatta.	1,409,200.00	1,659,200.00
Rhizome: Est. of new bamboo store through Rhizome, Ahmedabad.	-	87,706.00
SDCPL: Study on bamboo furniture product in India "EOI for studies & Research activities" trough STADD Devpt. Consulting P. Ltd., N. Delhi	993,425.00	-
TERI: Testing of different spices of bamboo for estimating total tar and particular matter in raw Gas under controlled parameters in gasification unit through TERI, New Delhi .	200,000.00	-
VDP: Relocation of IITF bamboo cubicles structure & stills to bamboo shop tribes through V Design Purple, Chandigardh	-	166,500.00
WKI: Devpt. of Bamboo base hydroponics unit through World Kids Inc., Mumbai	493,000.00	-
WKINC: Setting of new bamboo store through World Kids Inc., at Alibag, Mumbai	952,977.00	200,000.00
CFTRI: Study on exploring properties of bamboo shoot as edible conducting for mkt. of processing fro candies, chutneys, pickle, soup.	126,366.00	190,000.00
CBRI: Study on fire performance on bamboo mat board and BMB composites Mfg.	-	992,700.00
IIT: Study for Development of MDI, Bamboo Composites Laminates as bamboo products	191,000.00	706,200.00



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

(Amount Rs.)

	Current Year	Previous Year
Kamalnagi: Technology strategies for craft communication to development into entrepreneur model.	-	50,000.00
Plantation for Scientific Primary Process Industries with Marino Ind., Hapur-35 HA	-	426,067.00
Prefab : 10 Igloo Structure for DC Leh, Cloud Draught Relief area at Leah result	-	17,682,835.00
Prefab : 24 Igloo Structure for Disaster Leh, as Draught Relief area in Jammu & Kashmir	-	18,663,649.00
Prefab Igloo Shelter for ITBP one coy at Ladhak & Arunachal Pradesh	-	1,851,401.00
Prefab Igloo Shelter for ITBP & BSF one coy site at Sikkim	1,162,335.00	643,256.00
Prefab Igloo Shelter for BPO , Sikkim at high Valley area	-	1,851,401.00
Prefab Structure as 100 no. Structure for DC Leh, Draught Relief area in J & K by SMWPL..	1,399,500.00	37,458,482.00
Prefab Structure (11 no. Structure) for DC Leh, & Ladhak are effected as cloud brust Relief in J & K by APIL.	-	6,274,461.00
Prefab Structure for Swami Agnivesh, Gurgaon as 5 no. Structure through APIL.	847,803.00	443,775.00
Prefab Structure for Bodoland Tutorial Development Corp., Kokrajhar	125,000.00	125,000.00
Prefab poly houses supply through Thousand Petal as 1000 no. house for Department of Agriculture, H.P.	-	4,000,000.00
S&B: Study on costing of bamboo flooring for the project of Massiang Products Pvt. Ltd., through Soma & Banarje Co.	-	90,806.00
SWC: Training in bamboo stick, mat making for women at Sonbhadra Distt. , U.P.	85,884.00	210,000.00
SC: Training in bamboo stick, mat making for rural women at Angul Distt. , Orissa	-	210,000.00
TPPL: Technology transfer fee for Hydraulics Hot press for bamboo mat & ridges -Timpack	-	100,000.00
UAC: consultancy on conducting stewardship council certificate of bamboo forest in Maharastra Distt.	111,936.00	2,380,777.00
WGIPL: Structural testing of bamboo building components made bamboo	-	475,000.00
TOTAL	23,576,855.37	120,151,269.00



Annexure - B

NATIONAL MISSION ON BAMBOO APPLICATIONS
Project Expenditure against Partner Contribution
1st April, 2011 to 31st March, 2012

(Amount Rs.)

Particulars	Current Year	Previous Year
Procurement of material for Prefab Shelter-500 at Dantewada (Chhattisgarh Unit) (369)	-	8,745,750.00
Prefab Structure at University of Delhi Project	-	438,496.00
Prefab Structure for Indian Army HQ-56 (ECHS) project in 6 Location	-	678,849.00
Prefab Structure for Nagaland Govt./State disaster emergency operation project	-	298,109.00
Prefab structure for ILFS-TBM as two unit in Jogenderpur and Majlisipur , Tripura	-	1,840,709.00
Prefab Engineering bamboo Structure for SSA- Rajasthan Govt. Project.	-	2,100,490.00
Prefab structure for CEO, Medicinal Plant Board, Raipur .	-	316,800.00
Prefab structure for Acharya Narendra Dev College , New Delhi	-	68,180.00
Prefab Structure for Aatama Ram Satan Dharam College , New Delhi	-	2,917,519.00
Prefab structure for Lady Sriram College ,Delhi	-	799,940.00
Prefab Stct. 10 no. for Disaster Relife on earth quake in Sikkim Distt.	6,820,000.00	-
Prefab Stct. 1 no. for DFO/ DC , Mandi at Jhiri Unit as Café cum souvenir	424,800.00	-
Prefab structure 10 no. for ITBP,Shivganga Tamilnadu (Smw)	1,883,322.00	-
Prefab structure for Kamla Nehru College , Delhi(SF)	570,960.00	-
Prefab structure for Kendriya Vidyalaya ,Delhi(SF)	6,256,800.00	-
Prefab structure for Maharaja Agrasen College , New Delhi	95,135.00	300,000.00
Prefab structure for Maiterryi College , New Delhi	839,549.00	-
Prefab structure for Shivaji College , New Delhi	3,503,360.00	-
Prefab Structur for IIT , Mandi Class Room , Café cum souvenir	5,091,540.00	-
Prefab structure for CRPF, Jaipur , as 1 no. Structure (Apil)	436,484.00	-
Prefab structure 12 no. at Mirtur Bheramgarth, Bijapur- Distt. Collector (MI)	2,707,662.00	-
Prefab structure 12 no. for Distt. Projects Co-ordinated. at Batwara block, Bijapur (MI)	2,707,627.00	-



Annual Report- वार्षिक रिपोर्ट 2011-2012

(Amount Rs.)

	Current Year	Previous Year
Prefab structure 12 no. for Distt. Projects Co-ordinated. at Behramgardh Block, Bijapur (SPE)	7,113,600.00	-
Prefab structure 12 no. for Distt. Projects Co-ordinated. at Cherpall Block, Bijapur (Abc)	6,757,900.00	-
Prefab structure 12 no. for Distt. Projects Co-ordinated. at Gangalooore Block, Bijapur (Abc)	2,707,627.00	-
Prefab structure 54 no. for Serve Siksha Abhiyan , Nandurbar (Smw)	22,202,127.00	-
Prefab structure 12 no. for Distt. Projects Co-ordinated. at karkele Block, Bijapur (SPE)	3,556,800.00	-
Prefab structure for CRPF, Sembhoom,Sindri , as 8 no. structure	6,518,216.00	-
Prefab structure for CRPF, Ranchi as 10 structure	11,434,316.00	-
Prefab structure 12 no. for Distt. Projects Co-ordinated. at Narayanpur (UBTPL)	2,710,706.00	-
Prefab structure 12 no. for Distt. Projects Co-ordinated. at Somanpalli Block, Bijapur (SPE)	3,556,800.00	-
Prefab structure for ITDC, unit of Ashok Group, Pondichery.	-	237,138.00
Prefab structure 15 for CRPF,Hyderabad 1st' phase (Smw)	4,949,235.00	-
Prefab Structure through IL&FS for CFC bamboo based handicraft at Katlamara in Tripura	-	1,508,321.00
Prefab Structure through IL&FS for CFC bamboo & sheetal pati based handicraft at Baikhora-Tripura	-	1,099,861.00
Prefab Structure through IL&FS for CFC bamboo Abse Furniture at Kalibazar in Tripura	-	1,465,872.00
Prefab Structure through IL&FS for CFC bamboo Industrial Mat Board at Mendi, Dhalai in Tripura	-	2,079,966.00
Prefab Structure through IL&FS for CFC bamboo Basket try Handicraft at Bagabasa in Tripura	-	1,325,369.00
Prefab Structure through IL&FS for CFC bamboo Basket try Handicraft at Nalchar in Tripura	-	1,536,423.00
Prefab Structure through IL&FS for CFC bamboo base Furniture at Sarat Choudhary in Tripura	-	1,508,322.00
Prefab Structure through IL&FS for CFC bamboo base handicraft at Udaipur in Tripura	-	1,030,219.00



(Amount Rs.)

	Current Year	Previous Year
Prefab Structure through IL&FS for CFC bamboo Stick & Agarbatti unit at Kaladhepa in Tripura	-	2,848,566.00
Prefab Structure through IL&FS for CFC bamboo base hand rolled batti -Naba shantiganj in Tripura	-	780,534.00
Prefab Structure through IL&FS for CFC bamboo base hand rolled Incense at Ambassa in Tripura	-	1,475,979.00
Prefab Structure through IL&FS for CFC bamboo base utility handicrafts at Charilam, in W/ Tripura	-	2,389,918.00
Prefab Structure through IL&FS for CFC bamboo base hand rolled Incense, South Ghanimara-Tripura	-	780,534.00
Prefab Shelter (110 no.) for CRPF unit- Sukma, Jagdalpur , Chhatishgardh as 62 no. structure (Apil,Smw)	11,851,778.00	8,711,186.00
Prefab Structure Shelter as 12 no. for Distt. Project coordinators at Penekonda against 180 pota at Chhatishgardh (MI)	4,405,938.00	2,707,662.00
Prefab Structure Shelter (6 no. for 1 coy) for CRPF , under J & K Police	-	6,295,000.00
Prefab structure as 1174 no. kitchen cum store through SSA, Govt. of Manipur	3,541,587.00	18,541,081.00
Prefab Structure for CRPF , J&K Police as supply of one coy as 4 location in Srinagar by APIL.	5,105,516.00	3,147,000.00
Prefab Structure for CRPF , J&K Police as supply of two coy location in Srinagar by GI Natural.	16,564,000.00	6,295,000.00
Prefab Structure for Rajiv Gandhi Siksha Mission , as Pakera & Rokela unit Dantewar as 96 x 2 each structure supply by SMW and Mascot .	13,325,756.00	25,959,292.00
Prefab structure supply to Gargi College ,Delhi University	-	789,683.00
Prefab structure supply to Govt. of Degree College , Mandi , Himachal Pradesh	-	8,481,137.00
Prefab structure supply to Shaheed Bhagat Singh College , Delhi	-	5,974,631.00
Prefab Structure for District Project Coordinators , at Keshkutul, Distt. Bijapur (against 180 pota) as 12 structure supply by Mascot	4,405,938.00	2,707,662.00
TOTAL	162,045,079.00	128,181,198.00



NATIONAL MISSION ON BAMBOO APPLICATIONS
Project Expenditure (Project Loan)
1st April, 2011 to 31st March, 2012

(Amount Rs.)

Particulars	Current Year	Previous Year
AR Bmboo Tech.PL: Est. of bamboo stick round square, skewear, charcoal unit at Dimripal, Odisha	1,888,400.00	
BE: Establishment of bamboo stick unit by Brahamputra Ent.	688,842.00	
CRI: Mfg. Unit of Stick making at Nagaon by Craftique Bamboo Industries	-	119,700.00
BFPPL: Est. of Bamboo Bamboo Mat & Corgorated Sheet Hydraulic press at Dikrong	1,100,000.00	5,000,000.00
BTAPPL: Establishment of Stick joint in structure frame & trusses with bamboo bars unit at Siang Disst., A.P.	8,000,000.00	-
HMPL: Est. of Bamboo shoot unit at Aligaon ,Delhi by Holyland Mkt.P.Ltd.	2,500,000.00	-
Kamdhenu Food: Estt. of Bamboo Shoot unit at Guwahati	1,140,000.00	-
MCBW: Est. of Stick Making Unit at Keinour-Manipur	-	209,918.00
PCCI,N: Est. of Bamboo Charcoal & Briqueting machine of 150TPA at Najibabad	-	440,000.00
AAIAVCPL: Est. of Activated Carbon Unit at Bongaigaon	-	666,960.00
BKLCBI: Est. of Bamboo Charcoal unit by BKL Cane & Bamboo Ind., Kimin, Papum Pare,	-	1,409,000.00
Bangloi Bamboo Mat Unit: Est. of Bamboo Mat unit at Dimapur	600,000.00	-
NSPL: Est. of Bamboo Ply Industries unit at Kamrup ,Assam as additional TDA	-	5,800,000.00
Manipur Craft : Estb. Of bamboo Sticks and Charcoal unit at Keoni by Manipur Craft .	254,682.00	-
GBMPL: Est. of Bamboo Square Stick Unit at Chirang, Assam	960,000.00	-
AAFPG: Establishment of Stick Making Unit at Papum Para, Arunachal.	-	894,000.00
AUPL: Establishment of 1.20 MW Power Gassifire Bamboo Unit at Mendori Village, Bhopal	-	25,403,000.00
DBMMPL: Establishment of Bamboo Mat Board Unit at Kolhapur	2,500,000.00	2,833,224.00
DLSIPL: Establishment of Bamboo Timber Unit at Nagpur .	-	16,500,000.00
MMJEPL: Capacity Expansion of their existing Mfg. Unit of APIL at Namsai	13,125,000.00	-



(Amount Rs.)

	Current Year	Previous Year
MLC: Working capital against Supply of Agarbatti sticks materials as 9 tons.	202,500.00	-
MLC: Establishment of Agarbatti Making Unit at Mahas, Raigardh	2,500,000.00	
New Tech: Est. of Bamboo timbers unit at bairabi, Kolasib , Mizoram	48,000,000.00	-
NBPPL: Establishment of Stick and Mat Waving Unit at Balsore, Orissa	-	212,500.00
NGTPL: Establishment of Stick and Mat Waving Unit at Balasore, Orissa.	-	1,000,000.00
NKBPPL: Establishment of Bamboo Furniture & Prefab Structure Unit at Kudal	-	1,896,967.00
NEPBPL: Establishment of Bamboo Shoot Processing Unit at Dimapur	-	710,000.00
Manjuridges : est. of bamboo Stick marketing unit at Dispur	260,000.00	-
SPBSI: Establishment of Stick and Mat waving Unit at Balasore, Orissa.	-	640,000.00
VMOTC: Establishment of Bamboo Toothpick Unit at Panchkula , Chandigaradh	-	1,490,000.00
CRB: Est. of Round bamboo sticks unit at Ramhlun , Aizwal by CR Bambtech.	-	700,000.00
GINFCPL: est. of NFTC Bamboo Jute Composite unit at kolkatta	3,780,000.00	8,720,000.00
GBTCPPL: Est. of 200 KW Gassifire unit at Golaghat ,Guwahati	-	940,000.00
Manjuridge: Est. of bamboo square stick making unit at Dispur, Guwahati	-	260,000.00
MLIPL: Est. of stick & Raw Agabati unit at Dibrugardh by ML Incence Pvt. Ltd.	2,500,000.00	2,002,100.00
NFPL: Additional working capital for purchases of 35000 cane for revival /tune for bamboo shoot unit	-	859,000.00
NZHU,BCPP: Est. of Bamboo charcoal unit at Wokha, Nagaland by Nzhu Bamboo charcoal production., Wokha, Nagaland	-	530,000.00
SBU: Est. of Agarbati Masala and Charcoal unit by Shree Balaji Udyog at North Tripura	494,285.00	540,000.00
SLGTPL: Est. of stick and Mat making unit at Balasore, Orissa	-	4,000,000.00
SMWPL: Est. of Mfg. unit for Bamboo Ply Board at Raipur , Chhatishgardh	-	10,000,000.00
Way fare tour: Est. of new eco frindly tourisum Resort at Munsyari	3,300,000.00	-
WGIPL: Cost effective model for providing bamboo based rural housing by Wonder Glass Initiative Pvt. Ltd., Nagpur	-	987,500.00
TOTAL	93,793,709.00	94,763,869.00



**National Mission on Bamboo Application
Technology Information Forecasting & Assessment Council (TIFAC)
Receipts & Payments Account for the year ended 31.3.2012**

RECEIPTS	Current Year	Previous year
I) OPENING BALANCES		
a) Cash in hand	-	156,094.00
b) Bank Balances		
i) In current accounts	-	-
ii) In Deposit accounts	-	-
iii) Savings accounts	370,509,996.29	243,033,671.29
II) GRANTS RECEIVED		
a) From Government of India- Plan	250,000,000.00	220,100,000.00
b) From Government-Non Plan	-	-
c) From State Government	-	-
III) INCOME FROM INVESTMENTS		
a) Earmarked/Endow. Funds	-	-
b) Own fund	-	-
IV) INTEREST RECEIVED		
a) On Bank Deposits	15,507,233.00	11,736,376.00
b) Loans & Advances etc.	-	-
V) OTHER INCOME (SPECIFY)		
Sale of Publications	29,335.00	19,175.00
Misc. receipt from bamboo material	246,041.50	1,781,240.00
Other Receipt (RTI)	50.00	-
VI) AMOUNT BORROWED	-	-
VII) OTHER RECEIPTS		
Project Grant Unspent Balance Refund (Schedule 18)	-	23,570.00
Project Contribution/subsides for demonstration of Structure (Schedule 18)	107,837,688.00	237,867,023.00
Project Refund (Schedule 18A)	29,752,442.00	28,379,658.00
Salary Receivable	48,936.00	-
Ms. Manju Arya	1,057.00	-
Sundry advance: Marboh Bamboo Prd. P.Ltd.	73,500.00	-
TOTAL	774,006,278.79	743,096,807.29



**National Mission on Bamboo Application
Technology Information Forecasting & Assessment Council (TIFAC)
Receipts & Payments Account for the year ended 31.3.2012**

PAYMENT		Current Year	Previous year
I) EXPENSES			
a) Establishment Expenses (Schedule 20)	8,996,995.00		
Add: Opening Expenses Payable	555,556.00		
Less: Closing Expenses Payable	666,730.00	8,885,821.00	7,990,894.00
b) Administrative Expenses (Schedule 21)	18,346,409.55		
Add: Opening Exp. Payable	821,364.00		
Add : Loss on sale of Fixed Assets	-		
Less: Closing Expenses Payable	229,657.00		
Less: Profit on sale of Fixed Assets	-		
(Previous year figure does not include obsolescence expenses in it.)		18,938,116.55	20,512,811.00
II) PAYMENT MADE AGAINST FUNDS FOR VARIOUS PROJECTS			
Expenditure on Grants, Subsidies etc. (Schedule 22)		279,415,643.37	343,096,336.00
III) INVESTMENT & DEPOSIT MADE			
a) Out of Earmarked/Endow Funds		-	-
b) Out of Own Funds (Investment-other)		-	-
IV) EXPENDITURE ON FIXED ASSETS & CAPITAL WORK-IN-PROGRESS			
a) Purchases of Fixed Assets		450,486.00	151,814.00
b) Expenditure on Capital Work-in-Progress		-	-
V) REFUND OF SURPLUS MONEY/LOANS			
a) to the Government of India		-	-
b) to the State Government		-	-
c) to others providers of funds		-	-



Annual Report- वार्षिक रिपोर्ट
2011 - 2012

PAYMENT		Current Year	Previous year
VI) FINANCE CHARGES (INTEREST)		-	-
VII) OTHER PAYMENTS(SPECIFY)			
House Building Advance: Sh. Shambhu Kumar		-	550,000.00
Tour Advance: Sh. Deepak Chauhan		10,000.00	2,000.00
Tour Advance: Sh. Aseem Narain		105,131.00	-
Tour Advance: Sh. Sanjiv Nair		52,579.00	-
Tour Advance: Sh. Rohit Sharma		75,062.00	-
Petty Advance for office: Sh. Baljit Singh		2,000.00	-
Sundry Advance : Store at jaipur for bamboo shuttering board storage – APIL, Kolkatta		-	160,520.00
Salary Receivable		-	48,936.00
Sundry advance: Marboh Bamboo Prd. P.Ltd. Marketing of stick products by Sri Vinayak Industries.		-	73,500.00
Sundry Advance for SERB as Interior Works at Vasant Kunj		16,893,168.00	-
VIII) CLOSING BALANCES			
a) Cash in Hand		-	-
b) Bank Balances			
i) In Current accounts		-	-
ii) In Deposit accounts		-	-
iii) In Saving accounts		449,178,271.87	370,509,996.29
TOTAL		774,006,278.79	743,096,807.29

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN: 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(NMBA)

Sd/-
Registrar
(NMBA)

Sd/-
Mission Director
(NMBA)

Date : 10.09.2012
Place : New Delhi



Auditor's Report

AUDITORS' REPORT

The Members,
Mission for Geo Spatial Applications,
New Delhi.

We have audited the attached Balance Sheet of MISSION FOR GEO SPATIAL APPLICATIONS under Technology Information Forecasting & Assessment Council (TIFAC), New Delhi as at 31st March, 2012 and the Statement of Income & Expenditure Accounts for the year ended on that date annexed thereto.

These financial statements are the responsibility of the management of the Mission for Geo Spatial Applications - TIFAC. Our responsibility is to express an opinion on these financial statements based on our audit.

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 misstatement. 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 the management, as well as evaluating the overall presentations of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

Subject to our Audit objections as per Annexure AR – 4 and comments given on significant accounting policies, contingent liabilities and notes on accounts as per schedules 24 & 25, we report that:-

1. 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;
2. In our opinion proper books of account as required by law have been kept by Mission for Geo Spatial Applications – TIFAC, so far as appears from our examination of those books;
3. The Balance Sheet and Statement Income and Expenditure Account dealt with by this report are in agreement with the books of account;
4. In our opinion and to the best of our information and according to the explanations given to us, the said accounts read with the schedules and notes thereto give the information required and give a true and fair view:-
 - a. In case of Balance Sheet, of the state of affairs of the Mission for Geo Spatial Applications as at 31st March, 2012; and
 - b. In case of Income & Expenditure Account, of the excess of income over expenditure for the year ended on that date.

For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

Ch. Chandra Sekhar Patro
(Partner)
MRN: 091529

Date: 10.09.2012
Place: New Delhi



MISSION FOR GEO SPATIAL APPLICATIONS

TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL (TIFAC) STATUTORY AUDIT FOR F/Y 2011-2012

AUDIT OBJECTIONS- AR 4

1. As per Income Tax Act, 1961 tax is to be deducted either at the time of credit of such sum to the account of the payee, or at the time of payment thereof in cash or by issue of cheque or by any other mode, whichever is earlier. But in MGA TDS has been deducted on payment basis i.e. at the time when payment has been made to parties.
2. MGA has made payment of Rs. 1,57,184/- to M/s 3D Computing as AMC Charges on 27.05.2011 & Rs. 3,30,900/- to M/s RSI Softech India Private Limited as Consultancy Fee on 31.03.2012 during the FY 2011-12, but no TDS has been deducted on the same as required under the provisions of sections 194C & 194J of Income Tax Act respectively.
3. MGA has paid Rs. 20,999/- as AMC charges for printers to 3D Computing on 14.07.2011 and booked the expenses under Repair & Maintenance head instead of Annual Maintenance Charges head. No TDS has been deducted on the same as required under section 194C of Income Tax Act.
4. TIFAC owns six floors in Viswakarma Bhawan, a building constructed on the IIT land. For the cleanliness of the building, TIFAC has given a contract for housekeeping of the six floors to M/s Pink Housekeeping. Out of the six floors one floor is occupied by MGA which is being treated as a separate accounting entity. It is observed that out of the expenditure incurred on housekeeping which has been borne entirely by TIFAC no allocation has been made to MGA for the purposes of arriving at the appropriate utilization of funds in view of their distinct and separate funding as well as being a separate accounting entity. To this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the case of MGA.
5. Similarly the expenses on account of electricity, security services, water and horticulture which has been reimbursed by TIFAC to IIT has not been allocated to MGA and, therefore, to this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the case of MGA.
6. A Sum of Rs.1,65,122/- has been paid and booked as expense during the current year while these expenses relate to previous financial years for which no provision had been made in those previous years. Hence the surplus for the current financial year has been reduced to the extent of Rs. 1,65,122/- on account of expenditure pertaining to the previous years.
7. A Sum of Rs.11,26,687/- has been paid and booked as expense during the current year while these expenses relates partly to previous financial years as well. Provision for the expenses relating to previous financial years had not been made in those previous years. Hence the surplus for the current financial year has been reduced to the extent relating to previous financial years.
8. Sum of Rs. 1,57,184/- and Rs. 1,57,184/- has been paid on 27.05.2011 & 05.01.2012 respectively to M/s 3D Computing as AMC charges for HP CLJ Plotter – 4020 for a period of 3 years. But these expenses have not been bifurcated pertaining to the current year and the future years and hence include prepaid expenses to that extent.
9. In addition to the medical expenses paid towards the medical treatment of the employees and their family members on the lines of the CGHS scheme, a reimbursement is also being made on the basis of other medical bills submitted by the employees, subject to limits (with a minimum of Rs. 20000/-) fixed for each employee as per the Pay plus



Grade Pay of the employee. This expenditure which is not in line with the CGHS scheme would be covered under proviso (v) of sub-section 2(viii) of section 17 of Income tax Act, 1961 and, therefore, any expenditure so incurred beyond the limit of Rs. 15000/- prescribed under the said provisions would be taxable as a perquisite on which tax is required to be deducted at source. It is observed that MGA have not complied with the aforesaid provisions of Income Tax Act.

10. MGA has paid Rs. 96,935/- towards Repair & Maintenance of Car no. DL 3CA J1466 during the year, but it is observed that no Car was owned by MGA as per the records furnished to us.
11. Tour Advance to Mr. Kuldeep Kumar, Mr. Shakil Alam , Ms. Geetanjali R.C., Sh. Rajendra Jena, Prassana Kr. Nayak, and Mr. Rahul Kr. Mishra amounting to Rs. 11,007/-, Rs. 35,000/-, Rs. 1,006/-, Rs. 1,006/-, Rs.11,007/- and Rs.32,746/- respectively has been outstanding and unadjusted since last year under Schedule 4 - Loans & Advance.
12. Audited financial statements/utilization statements duly certified by Chartered Accountants in respect of grant utilized/released during the year has not yet been received in some cases from the implementing agencies.



MISSION FOR GEO SPATIAL APPLICATIONS

TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL REPLIES TO AUDIT QUERIES “ANNEXURE AR 4”

1. MGA has booked expenses when payments are due. The Firm/Company has raised bills and TDS has been deducted on such payment basis & deposited within 7th day of the following month.
2. The point (2 & 3) has been noted for future compliance was missed due to oversight. Tax has been deducted at source from the concerned firm/company during the FY 2012-13.
3. In respect of point (4 & 5), MGA are Technology Mission with finite life. Since the six floors are allotted to TIFAC, hence cleanliness of the building is the responsibility of TIFAC. Similarly Housekeeping, Electricity, Security Services, Water and horticulture are the responsibility of TIFAC and as MGA is part of TIFAC, there is no need for allocation of expenditure even though their accounting is separately maintained. Funds to both i.e. MGA as well as TIFAC are provided by DST.
4. The point no. 6 has been noted for future compliance.
5. An amount of Rs.11,26,687/- was deducted from the employees salary and along with it employer contribution was sent to the parent department. But the same was returned back due to some discrepancy in the parent department between accounts and administration department. So far as amount of Rs. 922048/- is concerned, it is related to leave salary contribution & pension contribution. The amount is payable only when the employee leaves the organization. In the instant matter, Sh. Sanjiv Nair & Sh. B.K. Manthan were relieved on the last day of the financial year 2011-12. Hence this amount was calculated & intimated to their parent department in the previous year.
6. In connection with AMC charges, the point has been noted for future compliances.
7. The Medical reimbursement is extended to MGA staff on the basis of CGHS scheme of Central Government. The point has been noted for future compliance.
8. In r/o expense Rs.96,935/- under Repair & Maintenance of Car no. DL3CA J 1466 - The car has been provided by DST to MGA, Mission Director. Only car and driver were allotted by DST, the maintenance of the car has to be taken care of by MGA.
9. The point no. 11 has been noted for final settlement during the current year.
10. In respect of point no. 12, audited financial statement/ u/c certified by CA for the previous release made usually received from the Implementing Agency only with the request of next installment.



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Balance Sheet as on 31.03.2012

(Amount Rs.)

CORPUS/CAPITAL FUND AND LIABILITIES	Schedule	Current Year	Previous Year
Corpus / Capital Fund	Schedule 1	32,544,121.16	40,308,757.16
Reserves and Surplus	Schedule 2	-	-
Earmarked / Endowment Funds	Schedule 3	-	-
Secured Loans and Borrowings	Schedule 4	-	-
Unsecured Loans and Borrowings	Schedule 5	-	-
Deferred Credit Liabilities	Schedule 6	-	-
Current Liabilities and Provisions	Schedule 7	2,200,990.00	3,456,564.00
TOTAL		34,745,111.16	43,765,321.16
ASSETS			
Fixed Assets (Net)	Schedule 8	10,511,524.00	9,256,414.00
Investments-From Earmarked / Endowment Funds	Schedule 9	-	-
Investments-Others	Schedule 10	-	-
Current Assets, Loans, Advances etc.	Schedule 11	24,233,587.16	34,508,907.16
Miscellaneous Expenditure (to the extent not written off or adjusted)	-	-	-
TOTAL		34,745,111.16	43,765,321.16
Significant Accounting Policies	Schedule 24		
Contingent Liabilities & Notes on Accounts	Schedule 25		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN : 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(MGA)

Sd/-
Registrar
(MGA)

Sd/-
Mission Director

Date : 10.09.2012
Place : New Delhi



Mission for Geo Spatial Applications
Technology Information Forecasting & Assessment Council, (TIFAC)
Income & Expenditure Account as on 31.03.2012

(Amount Rs.)

Income	Schedule /	Current Year	Previous Year
Income From Sales / Services	Schedule 12	-	276,412.00
Grants/Subsidies	Schedule 13	196,386,219.00	169,862,581.00
Fees / Subscriptions	Schedule 14	-	-
Income from Investment	Schedule 15	-	-
Income from Royalty, Publication Etc.	Schedule 16	-	-
Interest Earned	Schedule 17	1,771,858.00	1,382,436.00
Other Income (Including Partner Cont.)	Schedule 18	45.00	-
Increase/Decrease in Stock of Finished Goods & Work in Progress	Schedule 19	-	-
TOTAL (A)		198,158,122.00	171,521,429.00
EXPENDITURE			
Establishment Expenses	Schedule 20	21,654,414.00	15,548,060.00
Other Administrative Expenses etc.	Schedule 21	12,775,847.00	6,878,859.00
Expenditure on Grant ,Subsidies Etc.(Project Expenditures)	Schedule 22	161,462,549.00	145,688,765.04
Interest	Schedule 23	-	-
Depreciation on (Net Total at the Year end)	Schedule 8	10,029,948.00	8,147,895.00
TOTAL (B)		205,922,758.00	176,263,579.04
Balance being excess of Income over Expenditure (A-B)		-	-
Balance being excess of Expenditure over Income (A-B)		7,764,636.00	4,742,150.04
Balance being Surplus transferred to Corpus/Capital Fund		-	-
Balance being Deficit transferred to Corpus/Capital Fund		7,764,636.00	4,742,150.04
Significant Accounting Policies	Schedule 24		
Contingent Liabilities & Notes on Accounts	Schedule 25		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN : 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(MGA)

Sd/-
Registrar
(MGA)

Sd/-
Mission Director

Date : 10.09.2012
Place : New Delhi



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 1 - Corpus / Capital Fund

(Amount Rs.)

	Current Year	Previous Year
Opening Balance	40,308,757.16	45,050,907.20
Excess of Income Over Expenditure	-	-
TOTAL	40,308,757.16	45,050,907.20
Excess of Expenditure over Income	7,764,636.00	4,742,150.04
TOTAL	7,764,636.00	4,742,150.04
Closing Balance	32,544,121.16	40,308,757.16



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 2 - Reserve and Surplus

(Amount Rs.)

	Current Year	Previous Year
1. Capital Reserve :		
As per last Account	-	-
Addition during the year	-	-
Less : Deductions during the year	-	-
Sub-Total (a)	-	-
2. Revaluation Reserves :		
As per last Account	-	-
Addition during the year	-	-
Less : Deductions during the year	-	-
Sub-Total (b)	-	-
3. Special Reserve :		
As per last Account	-	-
Addition during the year	-	-
Less : Deductions during the year	-	-
Sub-Total (c)	-	-
4. General Reserve :		
As per last Account	-	-
Addition during the year	-	-
Less : Deductions during the year	-	-
Sub-Total (d)	-	-
TOTAL (a) to (d)	-	-



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 3 - Earmarked/Endowment Funds

(Amount Rs.)

	Current Year	Previous Year
a) Opening Balance of the funds	-	-
b) Additions to the Funds:		
i) Donations /grants	-	-
ii) Income from investments made on account of Fund	-	-
iii) Other Additions (Specify)	-	-
TOTAL (a+b)	-	-
c) Utilization /Expenditure towards objectives of funds		
i) Capital Expenditure		
Fixed Assets	-	-
Others	-	-
ii) Revenue Expenditure		
Salary, Wages and allowance etc	-	-
Rent	-	-
Other Administrative Expenses	-	-
TOTAL (c)	-	-
NET BALANCE AT THE YEAR END (a + b- c)	-	-

Notes

- 1) Disclosures shall be made under relevant Heads based on conditions attaching to the Grants.
- 2) Plan Funds received from Central /State Governments are to be shown as separate Funds and not to be mixed up with any other Funds



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 4 - Secured Loans and Borrowing

(Amount Rs.)

	Current Year	Previous Year
1. Central Government	-	-
2. State Government (Specify)	-	-
3. Financial Institutions		
a) Term Loans	-	-
b) Interest accrued and due	-	-
4. Banks:	-	-
5. Term Loans		
a) Interest accrued and due	-	-
b) Other Loans (specify)	-	-
c) Interest accrued and due	-	-
6. Other Institutions and Agencies	-	-
7. Debentures and Bonds	-	-
8. Others (Specify)	-	-
TOTAL	-	-

Note : Amounts due within one year



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 5 - Unsecured Loans and Borrowings

(Amount Rs.)

	Current Year	Previous Year
1. Central Government	-	-
2. State Government (Specify)	-	-
3. Financial Institutions	-	-
4. Banks:		
- Term Loans	-	-
- Other Loans (specify)	-	-
5. Other Institutions and Agencies	-	-
6. Debentures and Bonds	-	-
7. Fixed Deposits	-	-
8. Others (Specify)	-	-
TOTAL	-	-

Note : Amounts due within one year

Schedule 6 - Deferred Credit Liabilities

(Amount Rs.)

	Current Year	Previous Year
a) Acceptances secured by hypothecation of Capital equipment and other assets	-	-
b) Others	-	-
TOTAL	-	-



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 7 - Current Liabilities and Provisions

(Amount Rs.)

	Current Year	Previous Year
A. CURRENT LIABILITIES		
1. Acceptances	-	-
2. Sundry Creditors:		
a) For Goods	-	-
b) Others		
3. Advance Received	-	-
4. Interest accrued but not due on:		
a) Secured Loans/borrowings	-	-
b) Unsecured Loans /borrowings	-	-
5. Statutory Liabilities:		
a) Over dues	-	-
b) Others	-	-
6. Other current Liabilities		
a) Salary Payable	1,374,819.00	1,167,343.00
b) C.P.F. Payable	84,044.00	-
c) Group Insurance Payable	1,293.00	1,083.00
d) Audit Fee Payable	18,540.00	16,545.00
e) Establishment Expenses Payable (others)	155,225.00	123,171.00
f) Administrative Expenses payable	286,241.00	740,632.00
g) NPS employer & employee Contribution payable	24,028.00	104,220.00
h) CPF Advance Payable: Sh. Awadh Kishore	-	2,000.00
i) Tour Advance Payable: Sh. Sanjiv Nair	-	10,348.00
Security Retention Money		
M/s Sierra Atlantic Software's Ltd., Hyderabad	-	53,144.00
M/s Leica Geosystem Geospatial Imaging India P. Ltd.	-	136,083.00
M/s RSI Softech (I) Pvt. Ltd. for 3 workstation to CRPF	46,800.00	78,175.00
M/s RSI Softech (I) Pvt. Ltd. for 14 workstation to CRPF	-	763,236.00
M/s RSI Softech (I) Pvt. Ltd. for 10 workstation to CRPF	-	260,584.00
M/s NIIT GIS Ltd.	210,000.00	-
TOTAL (A)	2,200,990.00	3,456,564.00
B. PROVISIONS		
1. For Taxation	-	-
2. Gratuity	-	-
3. Superannuation /Pension	-	-
4. Accumulated Leave Salary / Encashment	-	-
5. Trade Warranties/Claims	-	-
6. Others (Specify)	-	-
TOTAL (B)	-	-
TOTAL (A+B)	2,200,990.00	3,456,564.00

**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 8-Fixed Assets

Amount – Rs)

	GROSS BLOCK					DEPRECIATION				NET BLOCK	
	Rate of Depreciation	Cost / valuation As at beginning of the year	Additions during the year	Deductions during the year	Cost / valuation at the year end	Dept. Up to 31.03.10	On Opening Balance	On Additions during the year	Total upto the year end	As at the current year end	As at the previous year end
A. FIXED ASSETS											
1. LAND a) Freehold		-	-	-	-	-	-	-	-	-	-
b) Leasehold		-	-	-	-	-	-	-	-	-	-
2. BUILDING -											
a) On Freehold Land		-	-	-	-	-	-	-	-	-	-
b) On Leasehold Land		-	-	-	-	-	-	-	-	-	-
c) Ownership Flats/Premises		-	-	-	-	-	-	-	-	-	-
d) Superstructures on Land not belonging to the entity		-	-	-	-	-	-	-	-	-	-
3. PLANT & MACHINERY											
a) CCTV-Flood modeling	15%	413,965.00	-	-	413,965.00	31,047.00	57,438.00	-	88,485.00	325,480.00	382,918.00
b) Dia Tooling System- I.S.	15%	175,000.00	175,000.00	-	350,000.00	13,125.00	24,281.00	26,250.00	63,656.00	286,344.00	161,875.00
c) Led Screen, Samsung-7000	15%	359,400.00	-	-	359,400.00	44,880.00	47,178.00	-	92,058.00	267,342.00	314,520.00
d) Nokia- Mobile	15%	73,600.00	2,060.00	-	75,660.00	9,728.00	9,581.00	309.00	19,618.00	56,042.00	63,872.00
e) Xerox Machine	15%	196,560.00	-	-	196,560.00	14,742.00	27,273.00	-	42,015.00	154,545.00	181,818.00
f) Fire Extinguisher	15%	-	25,650.00	-	25,650.00	-	-	3,848.00	3,848.00	21,802.00	-
4. VEHICLES		-	-	-	-	-	-	-	-	-	-
5. FURNITURE & FIXTURES - ISP	10%	676,849.00	205,106.00	-	881,955.00	78,567.00	59,828.00	20,511.00	158,906.00	723,049.00	598,282.00
6. OFFICE EQUIPMENT - ISP	15%	224,669.00	54,810.00	-	279,479.00	40,643.00	27,604.00	5,060.00	73,307.00	206,172.00	184,026.00
7. COMPUTER/PERIPHERALS											
a) Data backup storage system	60%	3,131,827.00	-	-	3,131,827.00	939,548.00	1,315,367.00	-	2,254,915.00	876,912.00	2,192,279.00
b) Erdas Software, ISP	60%	5,008,999.00	1,920,000.00	-	6,928,999.00	3,443,181.00	939,491.00	835,200.00	5,217,872.00	1,711,127.00	1,565,818.00
c) Computer peripherals-IPS	60%	8,572,389.00	158,989.00	-	8,731,378.00	6,131,535.00	1,464,512.00	47,697.00	7,643,744.00	1,087,634.00	2,440,854.00
d) Computer & Peripherals – MGA	60%	5,681,144.00	773,393.00	-	6,454,537.00	4,861,271.00	491,924.00	298,972.00	5,652,167.00	802,370.00	819,873.00
e) Software for Comp. MGA	60%	2,767,440.00	2,235,000.00	-	5,002,440.00	2,431,978.00	201,277.00	670,500.00	3,303,755.00	1,698,685.00	335,462.00
f) Lenovo HP-33196	60%	-	77,292.00	-	77,292.00	-	-	46,375.00	46,375.00	30,917.00	-
g) Sky Line Software-Single	60%	-	1,757,550.00	-	1,757,550.00	-	-	1,054,530.00	1,054,530.00	703,020.00	-
h) Skyline Tera Builder Multi	60%	-	3,900,208.00	-	3,900,208.00	-	-	2,340,125.00	2,340,125.00	1,560,083.00	-
8. ELECTRIC INSTALLATIONS		-	-	-	-	-	-	-	-	-	-
9. LIBRARY BOOKS, MGA	100%	19,388.00	-	-	19,388.00	4,571.00	14,817.00	-	19,388.00	-	14,817.00
10. TUBEWELL & W. SUPPLY		-	-	-	-	-	-	-	-	-	-
11. OTHER FIXED ASSETS		-	-	-	-	-	-	-	-	-	-
TOTAL OF CURRENT YEAR (A)		27,301,230.00	11,285,058.00	-	38,586,288.00	18,044,816.00	4,680,571.00	5,349,377.00	28,074,764.00	10,511,524.00	9,256,414.00
PREVIOUS YEAR		22,387,376.00	6,458,254.00	-	27,301,230.00	9,896,921.00	6,083,257.00	2,064,638.00	18,044,816.00	9,256,414.00	12,490,455.00
B. CAPITAL WORK IN PROGRESS		-	-	-	-	-	-	-	-	-	-
TOTAL (A+B)		27,301,230.00	11,285,058.00	-	38,586,288.00	18,044,816.00	4,680,571.00	5,349,377.00	28,074,764.00	10,511,524.00	9,256,414.00



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 9 - Investment from Earmarked/Endowment Funds

(Amount Rs.)

	Current Year	Previous Year
1. In Government Securities	-	-
2. Other approved Securities	-	-
3. Shares	-	-
4. Debentures and Bonds	-	-
5. Subsidiaries and Joint Ventures	-	-
6. Others (to be specified)	-	-
TOTAL	-	-

Schedule 10 - Investment - Others

(Amount Rs.)

	Current Year	Previous Year
1. In Government Securities	-	-
2. Other approved Securities	-	-
3. Shares	-	-
4. Debentures and Bonds	-	-
5. Subsidiaries and Joint Ventures	-	-
6. Others (to be specified)	-	-
TOTAL	-	-



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 11 -Current Assets, Loans, Advances etc.

(Amount Rs.)

	Current Year	Previous Year
A. CURRENT ASSETS		
1. Inventories:		
a) Stores and Spares	00.00	00.00
b) Loose Tools	00.00	00.00
c) Stock-in-trade		
-Finished Goods	00.00	00.00
-Work-in-progress	00.00	00.00
-Raw Materials	00.00	00.00
2. Sundry Debtors:		
Sundry Debtors	00.00	00.00
3. Cash balances in hand (including cheques /drafts and imp rest)	00.00	5,000.00
4. Bank Balances:		
a) With Scheduled Banks: (Union Bank of India)		
On Current Accounts	00.00	00.00
On Deposit Accounts (Short term deposits)	00.00	00.00
On Savings Accounts	23,720,887.16	28,081,238.16
On Interest Receivable	00.00	00.00
b) With non-Scheduled Banks:		
On Current Accounts	00.00	00.00
On Deposit Accounts-	00.00	00.00
On Savings Accounts	00.00	00.00
On Interest Receivable	00.00	00.00
5. Post Office-Savings Accounts	00.00	00.00
TOTAL (A)	23,720,887.16	28,081,238.16



(Amount Rs.)

	Current Year	Previous Year
B. LOANS, ADVANCES AND OTHER ASSETS		
1. Loans	-	-
a) Staff Advance (Annexure A)	511,200.00	104,026.00
b) Other Entities engaged in activities/objectives similar to that of the entity	-	-
c) Others (Specify)	-	-
2. Advance and other amounts recoverable in cash or in kind or for value to be received.		
a) On capital Account	-	-
b) Prepayments for Projects	-	-
Advance for project material (Lenevo HP-33196)	-	77,292.00
Advance for project material (Lenevo think pad)	-	299,993.00
Advance for project material (Samsung N-150,note book)	-	287,100.00
Advance for project material (Sky line software-tera builder multi processor version)	-	3,900,208.00
Advance for project material (Sky line software)	-	1,757,550.00
c) Others	-	-
Security Deposit: MTNL, Delhi	1,500.00	1,500.00
4. Income Accrued		
a) On Investments from Earmarked/ Endowment Funds	-	-
b) On Investment – Others	-	-
c) On Loans and Advances	-	-
d) Others (includes income due unrealized)	-	-
5. Claims Receivable	-	-
TOTAL (B)	512,700.00	6,427,669.00
TOTAL (A+B)	24,233,587.16	34,508,907.16



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 12 - Income From Sales / Services

(Amount Rs.)

	Current Year	Previous Year
1. Income from Sales		
a) Sale of finished Goods	0.00	0.00
b) Sale of Raw Material	0.00	0.00
c) Sale of Scraps	0.00	0.00
2. Income from Services		
a) Labour and Processing Charges	0.00	2,76,412.00
b) Professional / Consultancy Services	0.00	0.00
c) Agency Commissions and Brokerages	0.00	0.00
d) Maintenance Services (Equipment/Property)	0.00	0.00
e) Others (Specify)	0.00	0.00
Total	0.00	2,76,412.00



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 13 - Grants / Subsidies (Irrevocable Grants & Subsidies Received)

(Amount Rs.)

	Current Year	Previous Year
1. From Central Government		
MGA Grants		
Grants in Aid (Plan for MGA)	30,000,000.00	16,800,000.00
Grant in Aid (Plan for Internal Security Project)	62,780,000.00	59,697,500.00
Grant in Aid (Non plan)	-	-
2. State Government (Govt. of Punjab)	-	8,295,406.00
3. Government Agencies	-	-
4. Institutions/Welfare Bodies(Director Land Records, Haryana)	-	37,620,000.00
5. DG, CRPF, New Delhi for Sky line software	2,362,500.00	1,890,000.00
6. SSA, State Govt. of Manipur for GPR Set	-	294,030.00
7. Superintendent of Police, Kolkatta for workstation	-	33,000.00
8. DG, BSF, for Imagery & Maps for Orissa & Chhatisghard	4,580,000.00	41,200,000.00
9. DG, CRPF, New Delhi for ten workstations	1,916,495.00	2,165,073.00
10. DG (IT), CRPF, New Delhi for four workstations	-	1,867,572.00
11. DG, CRPF, New Delhi for 3 D Terion / Model for West bengal, NE, J&K, Maharastra	29,927,961.00	-
12. High Resolution Settalite with 3-D terion model & communication system for Assam, Nagaland, Manipur, Tripura, Sikkim, Meghalya Mizoram & A.P.	36,967,000.00	-
13. Sasatra Seema Bal, Lucknow	664,860.00	-
14. Development of 3 D Terion & Model for ITBP ,Delhi	3,466,395.00	-
15. Development of 3 D Terion & Model for MHA through Planing Commission	2,972,500.00	-
16. Development of wide band receiver & Sky line software for CRPF, Kerla Unit	2,013,400.00	-
17. Development of Direction Finder Imegery ,wide band receiver for CRPF, Maharastra State	15,447,228.00	-
16. Development of Imegary with six workstation for Govt. of Tripura Unit	3,287,880.00	-
17. International Organizations	-	-
18. Others (Specify)	-	-
TOTAL	196,386,219.00	169,862,581.00



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 14 - Fees / Subscription

(Amount Rs.)

	Current Year	Previous Year
1. Entrance Fees		
2. Annual Fees/Subscriptions	-	-
3. Seminar/Program Fees	-	-
4. Consultancy Fees	-	-
5. Others (Specify)	-	-
TOTAL	-	-

Schedule 15 - Income from Investment (Income on Invest. from Earmarked/Endowment Funds transferred to Funds)

(Amount Rs.)

	Current Year	Previous Year
1. Interest		
a) On Govt. Securities	-	-
b) Other Bonds/Debentures	-	-
2. Dividends:		
a) On Shares	-	-
b) On Mutual Fund Securities	-	-
3. Rents	-	-
4. Others (Specify)	-	-
TOTAL	-	-
TRANSFERRED TO EARMARKED/ENDOWMENT FUNDS	-	-

Schedule 16 - Income from Royalty, Publication etc.

(Amount Rs.)

	Current Year	Previous Year
1. Income from Royalty	-	-
2. Income from Publications	-	-
3. Others (Specify)	-	-
TOTAL	-	-



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 17 - Interest Earned

(Amount Rs.)

	Current Year	Previous Year
1. On Term Deposits:		
a) With Scheduled Banks	-	-
b) With Non-Scheduled Banks	-	-
c) With Institutions	-	-
d) Others	-	-
2. On Savings Accounts:		
a) With Scheduled Banks	1,771,858.00	1,382,436.00
b) With Non-Scheduled Banks	-	-
c) Post Office Savings Accounts	-	-
d) Others	-	-
3. On Loans:		
a) Employees/Staff	-	-
b) Others (Long term advances)	-	-
4. Interest on Debtors and Other Receivables	-	-
TOTAL	1,771,858.00	1,382,436.00

Schedule 18 - Other Income

(Amount Rs.)

	Current Year	Previous Year
1. Profit on Sale/ disposal of Assets		
a) Owned assets	-	-
b) Assets acquired out grants, of received free of cost	-	-
2. Export Incentives realized	-	-
3. Fees for Miscellaneous Services	-	-
4. Miscellaneous Income		
Other Receipt (RTI)	10.00	-
Suspense A/c	35.00	-
TOTAL	45.00	-



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 19 - Increase/(Decrease) in stock of Finished Goods

(Amount Rs.)

	Current Year	Previous Year
a) Closing stock		
Finished Goods	-	-
Work-in-progress	-	-
b) Less: Opening Stock		
Finished Goods	-	-
Work-in-progress	-	-
NET INCREASE/(DECREASE) [a-b]	-	-

Schedule 20 - Establishment Expenses

(Amount Rs.)

	Current Year	Previous Year
1. Salaries	17,496,054.00	13,156,375.00
2. Over Time Allowances and Bonus	17,658.00	15,866.00
3. NPS Employer Contribution	580,338.00	656,015.00
4. NPS Employees Contributions	556,332.00	196,626.00
5. Salary Arrear – 6 th Pay Commission	-	12,728.00
6. Expenses on Employees' Retirement and Terminal Benefits	-	-
7. CGEGIS	390.00	-
8. Medical Expenses	554,848.00	239,096.00
9. Leave Travel Concession	234,903.00	167,303.00
10. Leave Salary	101,404.00	53,941.00
11. Transfer on Traveling Allowance	229,000.00	21,031.00
12. License Fee	27,916.00	14,180.00
13. Lease Accommodation	635,136.00	763,391.00
14. Ex- Garcia Allowance	-	24,710.00
15. CPF Advance: Sh. Awadh kishore	22,000.00	10,000.00
16. Conveyance Expenses	62,153.00	44,597.00
17. Bonus to Employee	66,201.00	44,902.00
18. Tuition Fee	148,033.00	127,299.00
19. Leave Salary Contributions	310,733.00	
20. Pension contribution	611,315.00	
21. Others (Specify)	-	-
TOTAL	21,654,414.00	15,548,060.00



**Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012**

Schedule 21 - Administrative Expenses etc.

(Amount Rs.)

	Current Year	Previous Year
1. Repairs and Maintenance	521,580.00	212,420.00
2. Audit Fee	18,540.00	16,545.00
3. Car Hire Charges Consolidated	2,111,901.00	1,642,995.00
4. Postage & Courier Charges	10,546.00	53,544.00
5. Printing and Stationary	-	5,320.00
6. Traveling Expenses (Domestics)	1,637,046.00	1,421,434.00
7. Project Allowance	260,000.00	210,500.00
8. Meeting Expenses	252,871.00	153,873.00
9. Stationery Expenses	244,321.00	171,040.00
10. Misc. Office Expenses	159,821.00	22,951.00
11. Bank Charges	(355.00)	1,081.00
12. Internet Charges	46,259.00	735,526.00
13. Travel Abroad	6,141,339.00	2,073,396.00
14. Periodical & Magazine	7,834.00	3,970.00
15. Advertisement Expenses	-	-
16. Telephone Expenses	164,895.00	133,910.00
17. Consultancy Fee (Sky Line Software)	661,800.00	-
18. Subscription Fee	-	500.00
19. Testing Charges	-	19,854.00
20. Annual Maintenance Charges	537,449.00	
TOTAL	12,775,847.00	6,878,859.00



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 22 - Expenditure on Grants, Subsidies etc.

(Amount Rs.)

	Current Year	Previous Year
a) Grants given to Institutions/Organizations		
1. Pilot project on MM-5 Mescos- Scale for Wether Prediction Model	-	156,475.00
2. Pilot project of satellite Image for Jammu & Kashmir through DES Mapping Solutions Pvt. Ltd., Canada	13,061,535.00	-
3. Pilot project for two sky line terra explore software for Nagalad Govt.	472,500.00	-
4. Supply of one workstation for sastra Seema Bal , Lucknow on trial basic	281,733.00	-
5. Pilot project 3-D Terrain Model ,Seders,GPS in Nexal effected Area in Gov. of Jharkhand and Madhya Pradesh (I/S)	845,247.00	3,377,745.00
6. Pilot project on Imagery for Himachal Pradesh,Uttarakhand, Tripura, Arunachal Pradesh, Manipur, Meghalya, Mizoram and Nagaland through DES Mapping Solutions P. Ltd.,Canada	-	41,877,705.00
7. Pilot Project for Deputy Superintendent of police (SB) , Tripura as six set software of Sky Line - terra Explore on successful trial	3,523,962.00	234,000.00
8. Pilot project for BSF , Jammu & Kashmir as one Sky Line Software terra Explore.	3,780,000.00	265,900.00
9. Pilot Project for flood modling digital storage 200mh color display system	-	90,780.00
10. Pilot project for flood medeling ground control system as review of Almati Dam and Krishna river through NWHD, Canada	874,934.00	683,273.00
11. Pilot project of satellite Image for Orissa and Chhatishgardh through DES Mapping Solutions Pvt. Ltd., Canada	-	41,513,623.00
12. Pilot project of satellite Image for 8 District in Madhya Pradesh through DES Mapping Sloution P.Ltd.,Canada	-	3,419,885.00
13. Pilot project for development of One & Two prototype of wide band software define receiver with all one set equpment through SDR Technology,	40,723,716.00	9,300,000.00
14. Pilot project of satellite Image data for Bihar, Punjab, North East & west Bengal through DES Mapping Solutions Pvt. Ltd., Canada	37,035,171.00	35,229,955.00
Total (A)	100,598,798.00	136,149,341.00



Annual Report- वार्षिक रिपोर्ट 2011 - 2012

(Amount Rs.)

	Current Year	Previous Year
15. Pilot project for flood modeling ground control system as training Hydraulic modeling & support through Morthwest Hydraulic Consultant Ltd.,Canada	-	3,128,145.04
16. Pilot project with Additional commissioner police, Kolkatta for installation of One workstation on trial basic	-	34,125.00
17. Pilot project with Govt. of Tripura for installation of One workstation on add-on basic for Internal security Project.	-	437,358.00
18. Pilot project with D.G., CRPF, Delhi for supply of Sixty one sky line 3-D terra explore software on successful trial	26,744,211.00	1,890,000.00
19. Pilot project with Govt. of Manipur for supply of 30 GPR Gramin handset.	-	294,000.00
20. Pilot project with D.G., CRPF, Delhi against supply of five W/S as L/Y for installation of three workstation on successful trial .	735,247.00	2,088,224.00
21. Pilot project with D.G.(IT) , CRPF, Delhi for installation of three workstation	-	1,667,572.00
22. Pilot project against five development of portable HF/VHF/UHF Radio System through SDR Technologies	900,000.00	
23. Pilot project on Airframe & Associate control mechanism for prototype of UAV on trial basic for Paramilitary & Police.	22,887,070.00	
24. Pilot project for development of GPS Ruggedizes Navigaor through SDR Technologies.	280,000.00	
25. Pilot project for NLRMP as survey at Fathebad Distt. By High Resolution Satelite Imagery & Ground Thruthing by ETS/GPS System.	5,650,829.00	
26. Pilot project for ITBP,delhi against supply of eight workstation with sky line terra software	3,066,394.00	
27. Development of Training Manual for Communication Equipment with GPRS as well as software provided to Police through SDR Tech.	600,000.00	
b) Subsidies given to Institutions/Organizations	-	-
Total (B)	60,863,751.00	9,539,424.04
TOTAL (A) + (B)	161,462,549.00	145,688,765.04



Mission for Geo Spatial Applications
Technology Information, Forecasting & Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2012

Schedule 23 - Interest

(Amount Rs.)

	Current Year	Previous Year
a) On Fixed Loans	-	-
b) On Other Loans (including Bank Charges)	-	-
c) Others (Specify)	-	-
TOTAL	-	-



MISSION FOR GEO SPATIAL APPLICATIONS

TECHNOLOGY INFORMATIONS, FORECASTING & ASSESSMENT COUNCIL (TIFAC) SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31.03.2012

SCHEDULE - 24

SIGNIFICANT ACCOUNTING POLICIES

1. The MGA has adopted the Hybrid System of accounting i.e. combination of Cash Basis and Accrual Basis accounting.
2. Fixed assets are stated at cost less accumulated depreciation. Cost comprises the purchase price and any attributable cost of bringing the asset to its working condition for its intended use.
3. Depreciation on fixed assets is computed on the written down value (WDV) method at the rates and in the manner prescribed under the provisions of Income Tax Act.
4. Prior period expenditure, extra-ordinary items and changes in accounting policies having material impact on the financial statements of the MGA are required to be disclosed.
5. The repayment of grant/assistance to MGA by the beneficiaries/borrowers, as per the conditions stated in the EFC agreement with DST shall be accounted as income on receipt basis.
6. Contingent liabilities in respect of on-going projects/studies etc. are neither provided for nor determined.

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN : 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Date : 10.09.2012
Place : New Delhi

Sd/-
Accounts Officer
(MGA)

Sd/-
Registrar
(MGA)

Sd/-
Mission Director



Mission for Geo Spatial Application
Technology Information, Forecasting & Assessment Council (TIFAC)
Schedules Forming Part of Accounts for the period ended 31.03.2012

SCHEDULE 25 - CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS

1. CONTINGENT LIABILITIES

1.1 Claims against the Entity not acknowledge as debts **Rs. NIL** (Previous year **Rs. NIL**)

1.2 In respect of

- Bank Guarantees given by/on behalf of the Entity **Rs. NIL** (Previous year **Rs. NIL**)
- Letters of Credit opened by Bank on behalf of the Entity **Rs. NIL** (Previous year **Rs. NIL**)
- Bills discounted with banks **Rs. NIL** (Previous year **Rs. NIL**)

1.3 Disputed demands in respect of:

- Income tax **Rs. NIL** (Previous year **Rs. NIL**)
- Sales Tax **Rs. NIL** (Previous year **Rs. NIL**)
- Municipal Taxes **Rs. NIL** (Previous year **Rs. NIL**)
- In respect of claims from parties for non-execution of orders, but contested by the Entity **Rs. NIL** (Previous year **Rs. NIL**)

2. CAPITAL COMMITMENTS

- Estimated value of contracts remaining to be executed on capital account and not provided for (net of advances) **Rs. NIL** (Previous year **Rs. NIL**)

3. LEASE OBLIGATIONS

- Future obligations for rentals under finance lease arrangements for plant and machinery amount to **Rs. NIL** (Previous year **Rs. NIL**)

4. CURRENT ASSETS, LOANS AND ADVANCES

- In the opinion of the Management, the current assets, loans and advances have a value on realization in the ordinary course of business, at least equal to the amount at which they are stated in the Balance Sheet.

5. TAXATION

- In view of there being no taxable income under Income tax Act, 1961 no provision for Income Tax has been considered necessary.



6. FOREIGN CURRENCY TRANSACTIONS

(Amount Rs.)

	Current Year	Previous Year
6.1. Value of Imports Calculated on C.I.F. Basis:		
- Purchase of finished Goods	Rs. 5,20,45,924	Nil
- Raw Materials & Components (Including in transit)	Nil	Nil
- Capital Goods	Nil	Nil
- Stores, Spares and Consumables	Nil	Nil
6.2. Expenditure in foreign currency:		
a) Travel	Rs. 9,81,426	Nil
b) Remittances and Interest payment to Financial Institutions/ Banks in Foreign Currency	Nil	Nil
c) Other expenditure:		
- Commission on Sale	Nil	Nil
- Legal and Professional Expenses	Nil	Nil
- Miscellaneous Expenses	Nil	Nil
6.3. Earnings:		
Value of Exports on FOB basis	Nil	Nil
6.4. Remuneration to auditors:		
- Auditors Fee	18,540.00	16,545.00
- Taxation matters	Nil	Nil
- For Management services	Nil	Nil
- For certificate	Nil	Nil
Others	Nil	Nil
7. Liability towards gratuity payable on death/retirement of employees is not provided for.		
8. Provision for accumulated leave encashment benefit to employees is not being made since it shall be accounted for on cash basis.		
9. A Sum of Rs.1,65,122/- has been paid and booked as expense during the current year while these expenses relates to previous financial years for which no provision had been made in those previous years.		
10. Sum of Rs.11,26,687/- has been paid and booked as expense during the current year while these expenses relates to previous financial years as well as the current year.		
11. Previous year's figures have been regrouped/rearranged wherever found necessary, to make them comparable with current year figures.		
12. Schedules 1 to 25 are annexed to and form an integral part of the Balance Sheet as at 31.03.2012 and the Income and Expenditure Account for the year ended on that date.		

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN : 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(MGA)

Sd/-
Registrar
(MGA)

Sd/-
Mission Director

Date : 10.09.2012
Place : New Delhi



Mission for Geo Spatial Applications
Technology Information Forecasting & Assessment Council (TIFAC)
Receipts & Payments for the Year Ended 31.03.2012

Receipts	Current Year	Previous Year
I) OPENING BALANCES		
a) Cash in hand	-	-
b) Bank Balances		
i) In current accounts	-	-
ii) In Deposit accounts	-	-
iii) Savings accounts	28,081,238.16	41,904,916.20
II) GRANTS RECEIVED		
a) From Government of India- (Plan for Internal Security Project)	62,780,000.00	59,697,500.00
b) From Government-(Plan for MGA)	30,000,000.00	16,800,000.00
c) From Government-Non Plan	-	-
d) From State Government	-	8,295,406.00
e) From Government Institution, Welfare Bodies & Others	103,606,219.00	85,069,675.00
III) INCOME FROM INVESTMENTS		
a) Earmarked/Endow. Funds	-	-
b) Own fund	-	-
IV) INTEREST RECEIVED		
a) On Bank Deposits	1,771,858.00	1,382,436.00
b) Loans & Advances etc.	-	-
V) OTHER INCOME (SPECIFY)		
Income from Services : Labors and Processing Charges	-	276,412.00
Suspense	35.00	-
Other Receipt (RTI)	10.00	-
Sale of Skyline Software for Internal Security Purpose	-	463,320.00
VI) AMOUNT BORROWED	-	-
VII) OTHER RECEIPTS		
Security Retention Money Received: M/s NIIT GIS Ltd.	210,000.00	
Security Retention Money Received: M/s RSI Softech (I) Pvt. Ltd.	-	1,238,078.00
Tour Advance amount received back: Sh. Rahul Kumar Mishra	2,254.00	
Tour Advance amount received back: Major Gen. G. S. Chandela	-	61,150.00
Tour Advance amount received back: Mr. B. K. Manthan	-	5,000.00
Petty Advance received back: Sh. Manish Kumar Tirkha	10,000.00	
Receipt against advance given:		
Advance for project material (Lenevo think pad)	299,993.00	
Advance for project material (Samsung N-150,note book)	287,100.00	
TOTAL	227,048,707.16	215,193,893.20



**Mission for Geo Spatial Applications
Technology Information Forecasting & Assessment Council (TIFAC)
Payments for Expenses**

(Amounts Rs.)

Payment		Current Year	Previous Year
I) EXPENSES			
a) Establishment Expenses (Schedule 20)	21,654,414.00		
Add: Opening Exp. Payable	1,397,817.00		
Less: Closing Expenses Payable	1,639,409.00	21,412,822.00	15,042,236.00
b) Administrative Expenses (Schedule 21)	12,775,847.00		
Add: Opening Exp. Payable	767,525.00		
Add : Loss on sale of Fixed Assets	-		
Less: Closing Expenses Payable	304,781.00		
Less: Profit on sale of Fixed Assets	-		
(Previous year figure does not include obsolescence expenses in it.)		13,238,591.00	6,370,676.00
II) PAYMENT MADE AGAINST FUNDS FOR VARIOUS PROJECTS			
Expenditure on Grants, Subsidies etc. (Schedule 22)		161,462,549.00	145,688,765.04
III) INVESTMENT & DEPOSIT MADE			
a) Out of Earmarked/Endow Funds		-	-
b) Out of Own Funds (Investment-other)		-	-
IV) EXPENDITURE ON FIXED ASSETS & CAPITAL WORK-IN-PROGRESS			
a) Purchases of Fixed Assets		5,550,008.00	6,458,254.00
b) Expenditure on Capital Work-in-Progress		-	-
V) REFUND OF SURPLUS MONEY/LOANS			
a) to the Government of India		-	-
b) to the State Government		-	-
c) to others providers of funds		-	-
VI) FINANCE CHARGES (INTEREST)		-	-
VII) OTHER PAYMENTS(SPECIFY)			
Security Retention Money Refunded			
M/s Sierra Atlantic Software's Ltd., Hyderabad		53,144.00	-
M/s Leica Geosystem Geospatial Imaging India P. Ltd.		136,083.00	364,817.00
M/s RSI Softech (I) Pvt. Ltd. for 3 workstation to CRPF		31,375.00	-
M/s RSI Softech (I) Pvt. Ltd. for 14 workstation to CRPF		763,236.00	-
M/s RSI Softech (I) Pvt. Ltd. for 10 workstation to CRPF		260,584.00	-
Tour Advance:			



(Amount Rs.)

Payment	Current Year	Previous Year
Sh. Prassana Kumar Naik	60,826.00	11,007.00
Sh. Rajendra Jena	7,998.00	1,006.00
Mr. Narinder Mahto	10,000.00	-
Mr. Sanam Nagpal	15,471.00	-
Mr. Mudit Srivastava	80,460.00	-
Mr. Bhimsen Mallick	19,158.00	-
Mr. Rahul Srivastava	55,000.00	-
Mr. Umesh Kumar	14,000.00	-
Mr. Mithilesh Kumar Rai	19,200.00	-
Mr. B.K. Manthan	102,856.00	-
Sh. Kuldeep Kumar	-	11,007.00
Sh. Rahul Kumar Mishra	-	35,000.00
Sh. Shakil Alam	-	35,000.00
Ms. Geetanjali Rai Chand.	-	1,006.00
Petty Advance:		
Sh. Satyaranjan Das	10,000.00	-
LTC Advance:		
Sh. Somenath Nath	14,459.00	-
Contingent Advance:		
Sh. Satyaranjan Das	7,000.00	-
Sh. B.K. Manthan	3,000.00	-
Security Deposit paid to MTNL	-	1,500.00
Advance for project material (Lenevo HP-33196)	-	77,292.00
Advance for project material (Lenevo think pad)	-	299,993.00
Advance for project material (Samsung N-150,note book)	-	287,100.00
Advance for project material (Sky line software-tera builder multi processor version)	-	3,900,208.00
Advance for project material (Sky line software)	-	676,470.00
Advance to CRPF for procurement of 10 workstation	-	7,851,318.00
VIII) CLOSING BALANCES		
a) Cash in Hand	-	-
b) Bank Balances		
i) In Current accounts	-	-
ii) In Deposit accounts	-	-
iii) In Saving accounts	23,720,887.16	28,081,238.16
TOTAL	227,048,707.16	215,193,893.20

As per our report of even date Annexed herewith

For Anil Bhatia & Company
Chartered Accountants
FRN : 012686N

Sd/-
(Ch. Chandra Sekhar Patro)
Partner
M. No: 091529

Sd/-
Accounts Officer
(MGA)

Sd/-
Registrar
(MGA)

Sd/-
Mission Director

Date : 10.09.2012
Place : New Delhi



Mission for Geo Spatial Applications
Technology Information Forecasting & Assessment Council (TIFAC)
Current Assets, Loans, Advances and Other Assets

Annexure A

(Amount - Rs.)

Staff Advance	Current Year	Previous Year
Tour Advance:		
Sh. Kuldeep Kumar	11,007.00	11,007.00
Sh. Prassana Kumar Naik	71,833.00	11,007.00
Sh. Rahul Kumar Mishra	32,746.00	35,000.00
Sh. Shakil Alam	35,000.00	35,000.00
Sh. Rajendra Jena	9,004.00	1,006.00
Ms. Geetanjali Rai Chand.	1,006.00	1,006.00
Mr. Narinder Mahto	10,000.00	-
Mr. Sanam Nagpal	15,471.00	-
Mr. Mudit Srivastava	80,460.00	-
Mr. Bhimsen Mallick	19,158.00	-
Mr. Rahul Srivastava	55,000.00	-
Mr. Umesh Kumar	14,000.00	-
Mr. Mithilesh Kumar Rai	19,200.00	-
Mr. B.K. Manthan	102,856.00	-
Petty Advance:		
Sh. Manish Kumar Tirkha	-	10,000.00
Sh. Satyaranjan Das	10,000.00	-
LTC Advance:		
Sh. Somenath Nath	14,459.00	-
Contingent Advance:		
Sh. Satyaranjan Das	7,000.00	-
Sh. B.K. Manthan	3,000.00	-
Total	511,200.00	104,026.00