



ANNUAL REPORT 2014 - 15

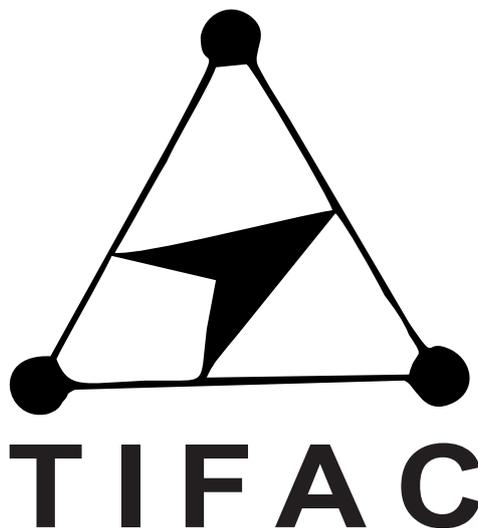


TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC)
(An Autonomous Body of Department of Science & Technology, Govt. of India)

www.tifac.org.in

ANNUAL REPORT

2014 - 15



TIFAC

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EXECUTIVE SUMMARY

TIFAC, established in 1988 as an autonomous society under the Department of Science & Technology, 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 the country. The last 25 years of its existence was marked by many a milestone achievement that included bringing out the Technology Vision 2020 documents and implementation many useful technology missions and technology development support programs and projects, thanks to its networking capabilities.

During the year, TIFAC continued its focused efforts in consolidating some of the steps taken during last couple of years, towards realigning TIFAC activities with its core mandate. Many steps were taken to strengthen different aspects of capacity building in areas such as foresight, road-mapping, horizon scanning, patent analysis etc. this has helped in finalizing the draft of the **Technology Vision 2035** document. This is based on the outcome of a broad based nation-wide inclusive and consultative approach, rooted in the aspirations of people of India and blended with speculations of the game-changing or disruptive technologies. It was circulated for review by a group of experts and is currently under consideration of the Prime Minister's Office for release by Hon'ble PM. The technology roadmaps in 12 identified sectors, that would supplement the main **Vision 2035** document, were in different stages of preparation.

The 'Directory of Aids & Assistive Devices for Persons with Disabilities (PwDs)', taken up by TIFAC on behest of the Department of Empowerment of Persons with Disabilities under Ministry of Social Justice and Empowerment, resulted in an online repository of information on Aids and Assistive Devices for PwDs in the form of a web portal. Hon'ble President of India, **Shri Pranab Mukherji** launched the portal **swavlamban.info** on December 3, 2014, on the occasion of International day of Disability.

Under the **Technology Foresight for Automotive Research (TFAR)**, an interim report of the detailed project report (DPR) the formulating the R&D plan of the National Mission for Electric Mobility (NMEM) was submitted to the Department of Heavy Industry (DHI). The report covers technology status and trends, technology gaps in India, and suggested technology development strategies in the verticals of the Vehicle Systems Integration and Light-weighting, Rechargeable Energy Storage Systems, Electric Drives and Power Electronics.

Activities under the programs of **SIDBI Revolving Fund for Technology Innovation Programme (SRIJAN)**, the **Patent Facilitating Centre (PFC)** and the **MSME Cluster Programme, the MSME Exports Programme** and other programs were continued. As part of the International Cooperation under **India-IIASA programme**, a study entitled 'Analyzing Forest Carbon Accounts for Sustainable Policy options with special reference to livelihood issues' was completed. The Study has provided interventions and recommendations for sustainable management of forests keeping in mind the livelihood options of the forest dependent communities. Three other cluster projects covering climate related aspects of sustainable livelihood, hydrology and water resources development made substantial progress during the year.

With a slew of activities including capacity building initiatives, technology foresight documents and other studies and the Technology Vision 2035 exercise, TIFAC is poised to contribute to a broad technology perspective for the country. This expertise of carrying out studies and leveraging an ever expanding network of experts, TIFAC is looking forward to evolve as a nodal national centre in technology foresight in the context of planned national development and providing technology information towards defining requirements and prioritization of areas for research and technology development.

(Prof Prabhat Ranjan)
Executive Director

1. Technology Foresight Activities

Technology Foresight is extremely important for any nation to grow, be it developed or developing nation. Role of technology in the economic progress of a nation is always being increasingly recognized and appreciated, efforts are being made globally to develop technology strength and make the industries competitive for well rounded development of the society. The developing countries specially have shown a marked rise in the pace of economic growth in recent years with focus on Science, Technology & Innovations. Technology Foresight is a tool for 'wiring up' the national innovation system and anticipating future market demand and designing development strategies for decision making. It helps to improve quality of life of citizens and contributes to wealth creation.

TIFAC, since its inception has been involved in technology foresight exercise in terms of bringing out technology vision documents, techno market survey reports, sector specific technology foresight reports etc. In this section, details of several technology foresight initiatives being carried out by TIFAC, including Technology Vision 2035, Technology Foresight for Automotive Research (TFAR), etc., are presented.

1.1. Technology Vision 2035

The role of technology has been widely recognized in fostering economic growth of a nation and enhancing its industrial competitiveness. Further, it is considered as an 'engine for economic development', as a 'strategic resource', and as a 'competitive weapon' for well rounded development of the society. Hence, planning and developing the technological competence of a nation, is in forefront of decision-making. In this context, the importance of foresight in general and technology foresight in particular is well appreciated by many nations. Several countries in Central Europe, East Asia, Latin America and the Russian Federation are quite regular in carrying out foresight exercises before taking any major decisions.

Technology foresight exercises for any country will pave way for development of technological competencies, strengthens the nation to prepare and meet global competition, ensures creation of sustainable comparative advantages in select technological thrust areas and assures well-being of citizens with the aid of science, technology and innovation.

TIFAC, since its inception has been involved in technology foresight exercise in terms of bringing out technology vision documents, techno market survey reports, sector-specific technology foresight reports etc. long term technology forecasting exercise was carried at TIFAC in 1996 and brought out **Technology Vision 2020** document with the aim to provide directions for national initiatives in Science and Technology to make India a developed country by 2020.

In view of fast changing technology landscape and its impact on social dynamics, TIFAC has initiated a mega exercise, '**Technology Vision 2035**' articulating the aspirations of Indians and an actionable plan for their fulfillment taking into account the priorities, demand drivers, constraints & new opportunities that we have in the emerging knowledge era.

The draft document is under circulation for review by a group of experts. The document is also under consideration of PMO (Prime Minister Office) for release by Hon'ble PM and also writing foreword to this document by Hon'ble PM.

In brief, the document begins with the retrospection of TV 2020 exercise, in the form of an analysis of progress of different sectors as envisaged in the TV 2020 document vis-a-vis their performance as on today. The performance of different sectors have been categorised following the analogy of four gaits of the horse: *galloping, cantering, trotting and walking*. The three basic needs of human being in terms of security, prosperity and identity of our vast population in 2035 and their interrelationship have been analysed. Further, in the document, the aspiration of Indians and the role of technology for their fulfilment have also been captured. These aspirations have been grouped into the following 12 prerogatives which every citizen must be assured of:

1. Clean air & potable water
2. Food & nutritional security
3. Universal healthcare & public hygiene
4. 24x7 energy
5. Decent habitat
6. Quality education, livelihood & creative opportunities
7. Safe and speedy mobility
8. Public safety & national security
9. Cultural diversity & vibrancy prerogative
10. Transparency & effective governance
11. Disaster & climate resilience
12. Eco-friendly conservation of natural resources

Furthermore, the critical technologies identified, for each prerogative are placed on a timeline, indicated in four stages:

- Existing technologies that are ready for deployment
- Technologies in pilot stage that must be scaled up from lab to field
- Technologies in the R&D stage that require targeted research and
- Technologies which are still in the imagination

In addition, *10 grand challenges* that the country should confront for a wide-scale impact across the sectors, have been identified:

1. Guaranteeing nutritional security and eliminating female and child anaemia
2. Ensuring quantity and quality of water in all rivers and aquatic bodies
3. Securing critical resources commensurate with the size of our country
4. Providing learner centric, language neutral and holistic education to all
5. Understanding national climate patterns and adapting to them
6. Making India non-fossil fuel based
7. Taking the railway to Leh and Tawang
8. Ensuring location and ability independent electoral and financial empowerment
9. Developing commercially viable decentralised and distributed energy for all
Ensuring universal eco-friendly waste management

The document further focuses on three transversal technologies in terms of Materials, Manufacturing and Information & Communication Technology (ICT) that provides the sub-stratum upon which all other technologies are constructed. The document also highlights the capabilities and constraints of India, along with the principle actors and key activities which could be taken up to convert the vision into action. The document concludes by reflecting upon the impact of technology on achieving comprehensive national power.

The document is prepared on the consultative framework followed by a combination of bottom up and top down approach. A mammoth consultative exercise was been taken up to envision the technologies that would be required to take on the scenario in 2035. Various regional and brainstorming meetings were organized throughout the country to broad-base the deliberations, decide on approach to be followed for the exercise and identify the select sectors of S&T. Accordingly, 12 areas viz. *Education, Medical Sciences and Healthcare, Food and Agriculture, Water, Energy, Environment, Habitat, Transportation, Infrastructure, Manufacturing, Materials, Information & Communication Technology* were identified. A group of 3 authors along with TIFAC scientists analyzed all the inputs received in different meetings, questionnaires etc. and scripted the vision document. The overall exercise is steered by a National Apex Committee chaired by Dr. Anil Kakodkar, Chairman TIFAC Governing Council.

1.1.1. Glimpse of Technology Roadmaps

The vision document walks towards the future considering country as a whole. However, to realise this vision, technology roadmaps of all the 12 sectors, as mentioned above are being prepared in parallel. The thoughtful ideas and perspectives were collected from various ways such as brainstorming meetings, student interaction meetings, experts panel discussions, literature review, survey through questionnaire, delphi exercise, scenarios building etc. for each of the sector.

Subsequently, the authors for writing sub-sections in each sector were selected, who analysed the inputs and wrote different sections. Each sectoral roadmap broadly covers the current Indian and global status, demand projection for 2035, anticipated challenges for the sector besides covering the future technology trends in near-term (within next 5 years), medium term (5-10 years) and long term (15 years and beyond). Technologies in the imagination or blue sky research areas, R&D directives and policy imperatives are also captured in each roadmap. The preparation of technology roadmaps of each sector is supervised by a sector specific advisory committee.

These roadmaps are in different stages of preparation. A brief on the status on the readiness level of each roadmap is as below:

| Sector | status |
|--------------------------------|--------|
| Education | •• |
| Medical Sciences & Health Care | ••• |
| Food and Agriculture | ••• |
| Water | ••• |
| Energy | ••• |
| Environment | •• |
| Habitat | ••• |
| Transportation | ••• |
| Infrastructure | ••• |
| Manufacturing | •••• |
| Materials | ••• |
| ICT | ••• |

| | | |
|------------------|------------------------------|------------------|
| •••• Draft Ready | ••• Draft nearing completion | •• Under process |
|------------------|------------------------------|------------------|

Broad coverages of each technology roadmap is as below:

1.1.1.1 Education

By 2035, India would be home to 1.53 billion citizens, the country growing younger in terms of median age. With changes envisaged to be happening at an unprecedented rate, Indians across all ages, occupations and locations would have to stay updated in terms of knowledge and skills. With a view to ensure their fulsome participation in socioeconomic activities besides democratic processes and enlightened citizenry, the people would need an education system geared for **“realizing the full potential of every Indian”**- the vision statement crafted for this sector. The system would have to necessarily be based on the latest technologies and trends prevailing then, addressing the needs of human resources in relevant sectors and facilitating the generation of new knowledge.

The roadmap for the sector being developed, would look at and cover education from the perspectives such as: Literacy, Creativity and Skills; Culture, Recreation and the Good Life; Access- Anyone, Anywhere, Anytime; Lifelong Learning; Testing, Evaluation and Certification; Integration, Aggregation and Flexibility; and, Technology in Education. The roadmap builds on the types of Indians foreseen in 2035 and their educational needs, and identifies technologies which will facilitate their fulfillment.

1.1.1.2 Medical Sciences and Healthcare

Better health is central to human happiness and well-being. It also makes an important contribution to economic progress, as healthy populations are considered to be more productive. The health status of a country is influenced by several factors in terms of providing quality health services to its people.

Today, India is characterized by its dynamism, changes are happening in every domain with transitions underway at the individual, community, regional, and national levels. Demographic transition and increased burden of disease is at the core of this change, causing shift from high to low mortality and fertility rates. Therefore, it remains a challenge to provide quality service to all through a sustainable and inclusive healthcare delivery system. Hence, technology roadmap on Medical Sciences and Healthcare sector envisions **“India will be a healthy state by providing affordable and accessible health care to every citizen through prophylactic, promotive, curative and rehabilitative aspects of technologies”**. This report lays great emphasis on transforming India into a healthy and wealthy nation by 2035.

The technology roadmap on Medical Sciences and Health Care has identified issues & challenges pertaining to this sector in the form of following 10 missions:

1. Enhancing longevity and health span.
2. Encouraging nutritional intervention for better Health.
3. Expanding health awareness especially Hygiene and Public Health.
4. Eliminating preventable infant and maternal mortality, and improve mother and child health care.

5. Eradicating natural outbreaks and controlling infectious diseases.
6. Evolving novel therapeutic approaches.
7. Ensuring minimization of all forms of disabilities.
8. Ensuring synergy and quality of indigenous and modern system of healthcare.
9. Efficient networking of rural and urban healthcare delivery system.
10. Encouraging and implementing indigenous biomedical technologies.

1.1.1.3 Food and Agriculture

Albeit the present focus on industrialization, agriculture remained a dominant sector of the Indian economy both in terms of contribution to gross domestic product (GDP) (Agriculture and allied sectors contributed 13.9 percent of the GDP in 2013-14) as well as a source of employment to nearly millions across the country (agriculture forms the principal means of livelihood of over 70 per cent of the rural households). Exports from agriculture constitute a fifth of the total exports of the country. The agriculture sector in India is expected to generate better impetus in the next few years due to increased investments in agricultural infrastructure such as irrigation facilities, warehousing and cold storage. Although there are noticeable signs that the rate of population increase is slowly diminishing in India and it is likely to end up with around 1.53 billion citizens in 2035. Hence, it becomes imperative to see that agricultural production keeps pace with demand and simultaneously ensure provision for nutritious food to all citizens for making our nation healthy and wealthy.

In future, agriculture development in India would be guided not only by the compulsion of improving food and nutritional security, but also by the concerns for environmental protection, sustainability and profitability assisted through technological strides with the perseverance of scientists and efforts of resilient Indian farmers. Hence, with a vision statement “**State-of-the-art technologies to ensure adequate, nutritious, healthy and safe food for growing population**”, the technology roadmap on Food and Agriculture sector under the ambit of Technology Vision 2035 is being prepared by giving the overall status of Indian agriculture, underlying issues and challenges along with strategies to overcome the challenges. The roadmap also delineates types of farmers and their emergent needs by 2035, technology perspectives and policy imperatives for the future. Agriculture is impacted by many sectors particularly water, energy, environment and influenced by social factors like demography, urbanization, infrastructure, policies etc. So the roadmap also gives overall perspective of agriculture and its linkages with other sectors. It is a forward looking document indicates areas for intervention that are likely to drive the next wave of growth and identifies technologies which have the potential to change the landscape of Indian agriculture in future.

1.1.1.4 Water

Water and air are the basic necessities of life of any living being. Providing adequate water with satisfactory quality to every living being is a big challenge. Hence, the technology roadmap of water sector has set the vision “**Assured and Fit for Purpose water supply for all by 2035**”. Overall aim is, “Developing and rolling out innovative sustainable water solutions that help achieve “more from less for

more”, freedom from water-borne diseases, cleaner water bodies, water security for all, and managing and mitigating adverse consequences of climatic uncertainties and natural calamities”.

This roadmap begins with a brief analysis of water situation covering past, present and future scenarios in water resources and provides estimates of the water demand across various segments. The water demand has increased dramatically due to several factors like improvements in living standard, more nuclear families, changing lifestyle etc. The problem has been compounded further due to change in the climate system and its potential adverse impact across all sectors. The roadmap is built up on the following seven critical issues which need focused attention in years to come:

1. Augmenting water availability
2. Addressing the challenges of water quality
3. Developing and implementing en masse technologies that help achieve the mission of “more crop per drop”
4. Managing wastewater
5. Desalination
6. Mitigating uncertainties
7. Large scale monitoring and surveillance using sensor networks and remote sensing technologies

1.1.1.5 Energy

India has recorded a significant growth in energy infrastructure since last few years. The future growth target of about 8% and above is also achievable provided it is backed with good infrastructure and enhanced energy supply. Despite this growth, shortages of energy and electricity persist in most parts of the country. Even today, more than one-third of the population do not have access to electricity and clean cooking fuels. Thus, Technology Roadmap of energy sector envisions providing affordable access to energy services to all Indians enabling an improved quality of life. This will help developing sustainable energy systems for the future and will ensure secured of energy supply.

This report articulates the three possible supply side scenarios i.e high coal, high renewable and high nuclear scenario. Different sectors pertaining to supply side and demand side have been covered at length. Supply side sectors include: fossil fuels (coal, oil & gases), nuclear, renewable energy and storage devices. Whereas, from demand side, major sectors covered are buildings & communities, industry, transport and rural energy requirements. The focus of this report is to elaborate the possible status of energy technologies in each sector to help achieving goal.

1.1.1.6 Environment

International Monetary Fund (IMF) and World Bank predict India's economic growth is likely to outpace China in 2016. National Manufacturing Policy report (2011) forecasts that contribution of manufacturing sector in India's economy would be about 25% within a decade which has stagnated at 15-16% since 1980 while the share in comparable economies in Asia is much higher at 25-34%. Govt. of India's recent initiative 'Make in India' is the beginning towards achieving this goal. Numerous environmental issues may create hurdle in this growth path. Hence the biggest challenge is to make this growth environmentally sustainable. Impact of unpredictable changes in the climate system on the environment is another dimension which also needs to be addressed with top most priority. Need of environmentally benign technologies, skill development and enforcement of strong policies and laws can't be overemphasized for this purpose. The technology roadmap of environment sector thus set a vision **“Sustainable, clean and healthy environment by 2035”**.

The entire report is prepared under four sub thematic areas i.e. human habitat, industrial environment, green house gases & air pollution and natural resources management.

1.1.1.7 Habitat

Housing is one of the basic necessities of human life, next only to food and clothing. There have been several efforts from Government to provide housing to its citizens, however, there is acute shortage of housing in India and this problem is aggravating as time is passing due to burgeoning population and rapid urbanization. Indian economy, at present, is following a growing trend, urbanization happening very rapidly which creates huge pressure on the habitat sector besides others. Population, though following a declining growth trend, is expected to touch 1.53 billion by 2035, out of which 45% is expected to live in urban areas as against 32% in 2014 and around 70 cities would be with population of 1 million plus. Apart from residential housing, real estate space would be required for commercial building sector comprising mainly retail, offices, hotels, health-care and education sectors. It also becomes imperative to plan on smarter, sustainable cities and buildings. Therefore, in order to be able to meet the huge housing shortage and future construction demands, it is vital to adopt new and alternative technologies supported by good policy framework and especially those technologies, which offer safe, durable, energy efficient and above all economically sustainable housing system.

The vision **“Sustainable Habitat – 2035: Affordable decent habitat for all”** as enumerated in the Technology Vision 2035 Technology Roadmap on Habitat sector foresees the possible future scenarios in the housing and habitat sector. The roadmap covers issues related to housing requirements of Indians in 2035, technology options, planning & design, materials and issues related to skill development and capacity building of workforce including facilitation of financial services. The document also points out that, for a vast country with limited natural resources, providing decent and affordable habitat for its people will be a mammoth task and constrained by availability of raw materials; thus the necessity of developing alternative building materials has been flagged as one of the key issues.

Technology developments in future will ensure that houses and related structures are built faster and more efficiently, maximizing the use of recycled materials, there by achieving sustainability. The technology developments that will be required to meet habitat necessities are comprehensively covered in the roadmap. The roadmap also visualizes that housing would be built on principles which focus on achieving a balance between safety, affordability, environment friendly, equitable and inclusive development.

1.1.1.8 Transportation

Prosperity of an individual and by extension of a nation is intrinsically linked with the fulfillment of the basic needs i.e. food, clothing and housing. Proper connectivity is no less important than these three. Hence transportation sector has been chosen as one of the sectors while designing the Technology Vision 2035 exercise. Transportation will have a key role in ensuring better life in 2035. The technology roadmap thus envisions “Sustainable, clean, safe, inclusive, smart and integrated mobility system”. This roadmap is built up on all the four sub sectors of transport - roadways, railway, airways, and waterways. Besides covering the specific technologies, each of the sub-sectors broadly focuses on the energy, environment, safety, control and management aspects. Advanced power train and control technologies, alternative fuels and propulsion technologies, safety and security technologies are also covered in detail under each of the roadways, railways, airways and waterways sub sectors.

1.1.1.9 Infrastructure

Socio-economic growth of India and the fulfilment of its people's aspirations are intrinsically linked to the availability of quality infrastructure. Rapid growth of Indian economy desires reliable and sound infrastructure. Hence, construction is the second largest economic activity in India after agriculture. It has been growing rapidly with the increased flow of raw material and manufactured goods which has spurred increase in rail, road, air and port traffic, necessitating further infrastructure development. It is a well known fact that success of any technological intervention will require foundation of networked institutions and proper infrastructure ecosystem.

The need to expand, upgrade and invigorate the infrastructure sector is, therefore, urgent and technology is a crucial accelerator in this endeavour. Thus, it is essential to take advantage of the appropriate technologies, and hunt for those which have game changing potentials. The technology roadmap on Infrastructure sector has set a vision “**To build integrated, robust, technology-driven, cutting-edge infrastructure for inclusive growth, sustainable development and a strong economy**”. The report has been articulated taking into account the sub-sectors - water & sanitation, urban transportation, roads & bridges, railways, civil aviation, ports, shipping & inland waterways, irrigation infrastructure, pipelines (Oil & Gas) and capacity building.

1.1.1.10 Manufacturing

Manufacturing is crucial and critical for robust growth of economy, exports and for substantial job creation in any country. Indian manufacturing sector at present contributes around 16% to the GDP, which amounts to a mere 1.8% of the world manufacturing output. This sector is currently at the crossroads and is facing severe competition in terms of manufacturing technologies globally.

Development of Indian manufacturing sector calls for strengthening and reformulating of economic reforms that would reinforce the sector and enable it to grow faster and fuel the engine of inclusive growth. India needs a rapid growth of the manufacturing sector not only to meet the rising demand but to accommodate millions of new entrants to the workforce. Keeping in view the importance of this sector, an in-depth Technology Roadmap document on Manufacturing Technologies has been evolved. This sector envisions “**strengthening manufacturing base through innovation driven clean, lean and green processes**” in India by 2035

The broad coverage pertains to eight key segments namely, textile & apparel, leather, chemicals, metal fabrication, food processing, metal fabrication, electronics & ICT appliances, composites fabrication and micro nano manufacturing. The roadmap highlights the need for all the above said sectors to imbibe concepts such as use of smart machines and equipments complete with self-diagnostic capabilities and adopting zero waste, zero defect principles.

1.1.1.11 Materials

Materials are key contributors to any country's growth and prosperity by catering to all the economic sectors ranging from primary to tertiary ones. Development of a wide array of sectors such as transportation, construction, manufacturing, education, health, communication, entertainment, arts, tourism along with variety of consumer goods and services is influenced by right choice of the materials. The critical areas such as infrastructure in India including shelter, food storage and water supply, energy generation & distribution, also greatly depend on the deployment of appropriate materials. R&D efforts by the Indian materials industry would need to be strengthened to stimulate the indigenous competitiveness in terms of technology, products and service providers thus catering to the global economy. In view of its utmost importance, materials have been identified as one of the 12 key sectors under the Technology Vision 2035 exercise.

The Technology Roadmap on Materials foresees “**India to be a global leader in niche materials and its processing technologies by 2035**”. The sectors covered in the roadmap include Electronic & Energy Materials, Biomaterials, Glass & Ceramics, Metallic materials and Polymers & Composites. Each of the sectors covers future technologies, pointers for research, both global and Indian scenario, policy imperatives along with a brief section on Mining.

1.1.1.12 Information and Communication Technology

ICT is one of the technology platforms which provide the foundation for achieving the aspiration of Indians in 2035. It has emerged as a major driver over the last 25 years impacting the way we educate ourselves, the way we live, work and the way we entertain. It continues to evolve very rapidly and innovations in the electronics and communication technologies continue to change the way we do things today, and our expectations of how we will do things in the future. The technology roadmap of this sector has been designed to achieve the leadership towards transforming India into a digitally empowered society and knowledge economy.

The report gives snapshot of several thematic areas where ICT is rapidly changing and making an impact. It gives an insight to the **basic technology** areas (Solid State, Display, Photovoltaic, VLSI design, Photonics, Processor and Computers, telecom, speech technologies, robotics, cloud computing, artificial intelligence, control systems, security technologies and solar power) and also examines the **application areas** (cyber-security, education, healthcare, banking, commerce,

transport, Governance, Energy, Industry, Agriculture, disaster management, Electronics for Inclusive Society and entertainment) on what could be possibly done with ICT in each of these areas. This document ends up with the focused recommendations suggesting the strategies and policies to be adopted in India for ICT sector.

1.2. Technology Foresight for Automotive Research (TFAR)

1.2.1. Preparation of Detailed Project Report and R&D Scheme for National Mission for Electric Mobility (NMEM)

TIFAC was requested by the Department of Heavy Industry (DHI) to prepare the Detailed Project Report for the R&D Programme under National Mission on Electric Mobility (NMEM). In October 2014, TIFAC submitted an Interim Report to the DHI. This report covers technology status and trends, technology gaps in India, and suggested technology development strategies in the following verticals:

- Vehicle Systems Integration and Light-weighting
- Rechargeable Energy Storage Systems
- Electric Drives and Power Electronics

During the process of preparing the Interim Report, TIFAC organized a series of brainstorming sessions on each of these areas involving stakeholders like the automotive industry, other relevant industry, R&D and academic institutions and government organizations.

Final report will be prepared based on the stakeholder inputs on the Interim Report.

1.2.2. Technology Foresight Studies on Electric Mobility

In recent years there is a renewed interest in electric vehicles and technological progresses in various aspects of electric vehicle technologies have made them a promising option for sustainable transportation in near future. Globally most countries have started serious initiatives on electric mobility.

However, electric mobility is not merely a shift to a more energy efficient and environment-friendly transportation option. Electric Vehicles bring with them possibilities of many paradigm shifts. It makes transportation a part of a different energy ecosystems, with possibilities of vehicles giving back energy when they are not in use, and the demand on the grid is high. Integration of different sources of energy is possible. The benefits as well as the impacts of the vehicle on the ecosystem are of a different nature as compared to conventional vehicles. Similarly, requirement of infrastructure, materials and resources are different in nature. Even the value chain for the industry may experience a shift.

There are many possible technology, strategy and policy choices. Vehicles that use electric drives can be of different types, e.g. hybrid electric vehicle, plug-in hybrid electric vehicle, range-extended electric vehicle, etc. Further, each of these categories has various options in terms of architecture and configurations as well as choices of technologies for subsystems. Hence a

detailed study on all these aspects will be a valuable input to policy makers, researchers, industry as well as other stakeholders. In view of this, TIFAC has initiated studies on electric mobility covering the following aspects:

1. **Impacts of Electric Mobility** in terms of energy, environment, infrastructure and distribution grids
2. **Future trends in key technologies** - Rechargeable Energy Storage Systems, drives and power electronics and Lightweight Materials and Manufacturing:

1.3 Other Studies, Reports & Projects

1.3.1 Ongoing Studies

1.3.1.1 Technology Foresight Studies in 'Security Technologies'

Technology foresight study aims to assess malicious threats and security vulnerabilities, prioritize/rank threats and vulnerabilities with respect to national perspective, identify potential technologies to counter existing & future threats, highlight the technology capabilities of government and private sector in India and their large scale deployability and vendor neutrality, suggest policies and strategies for putting in place adequate countermeasures with the help of technologies.

A foresight study on 'Natural Resources/ Environment Security' has been commissioned with The Energy and Resources Institute, New Delhi. The study targets includes forest and biodiversity/bio resources, mines/minerals (onshore and off shore), water resources (surface, underground, glacier & water supply system), air (troposphere & stratosphere), food & agriculture and marine resources. Commissioning of another study on 'Information & Communication Security and Financial Sector Security' is underway.

1.3.1.2 Relationship between GDP growth and technology causes in different districts of select Indian states – Andhra Pradesh & Telangana

The aim of the study is to ascertain the relation between S&T inputs and growth in Gross District Domestic Product (GDDP) in five select districts of Andhra Pradesh and Telangana.

S&T Indices in the sectors of agriculture, industry and services have been developed for the districts of Visakhapatnam, East Godavari and Srikakulam from various S&T indicators, the proxies of S&T inputs. The S&T indices have been correlated with GDDP to establish the relationship between S&T inputs and GDDP growth. Panel data analysis has also been carried out to understand inter-district variations. A draft study report has been prepared.

1.3.1.3 Technology Foresight Study on Solar Photovoltaic

The technology foresight study on solar PV completed. The study has identified the rapidly evolving technologies for Indian industry to be able to keep pace with the global standards, to keep it competitive in a fast changing domain. Manufacturing of solar cells, modules, critical raw materials, balance of systems, etc., within India would play a critical role towards boosting our economy through large scale deployment of Solar PV along with employment generation as we

expand use of solar PV in the country. The report will assist government, industries, researchers and financial partners to identify the steps required to participate fully in the collective effort to accelerate Solar PV deployment nationally. The foresight report will further ignite the minds of all stakeholders and inspire them to respond through an integrated approach towards achieving the ambitious target of Govt. of India for setting up 100 GW solar energy by 2022. Brainstorming meetings conducted with faculties, students, researchers at National Centre for Photovoltaic Research & Education (NCPRE), IIT-Bombay and Indian Institute of Engineering, Science & Technology (IEST), Shibpur, West Bengal.

One M.Tech. student did internship for six months on 'Solar PV based hybrid micro grid for rural electrification and feasibility analysis on four case studies' and a report was prepared.

1.3.1.4 Project on preparing a 'Directory of Aids & Assistive Devices for Persons with Disabilities (PwDs) – Funded by Department of Empowerment of Persons with Disabilities, Ministry of Social Justice and Empowerment

TIFAC had undertaken a project on preparing a 'Directory of Aids & Assistive Devices for Persons with Disabilities (PwDs)' funded by Department of Empowerment of Persons with Disabilities under Ministry of Social Justice and Empowerment in May 2014. The outcome is an online repository of information on Aids and Assistive Devices for PwDs in the form of a web portal by the name **swavlamban.info**. Hon'ble President of India, Shri Pranab Mukherji launched the portal on December 3, 2014 on the occasion of International day of Disability.

The web-portal provides an opportunity to the manufacturers/sellers to showcase their products under one roof, thereby enhancing the outreach to the users and allowing the PwDs to make informed decisions about the devices that are most suited for their needs. To begin with, it hosts nearly 2200+ products from about 200 sellers of assistive devices. It also talks about the technologies currently being researched and developed into usable products as well as the current policies and schemes at the Central and State levels of the country for facilitating improved access to assistive technology as well. It now acts as an interactive platform for the various stakeholders of the assistive technology sector to share their ideas and common concerns.

The belief of TIFAC that disability is no barrier to independence if supported by the right TECHNOLOGY had lead to this initiative which is now ready to address the information and accessibility gap between persons with disabilities (PwDs) and technology.

1.4. Quantitative Foresight Study

The role of quantitative foresight (QF) in technology foresight perhaps could never be over emphasised. In an era of increased computational power and Big Data, QF techniques for analysis of technology futures have assumed greater significance. The quantitative approach helps to have a deeper and organised insight into the interplays of various driving forces that will shape the future.

TIFAC has initiated steps towards this direction. TIFAC Scientists had a series of internal deliberations on the scope of quantitative analysis in various sectors. Recently a serious of lecture on the topic 'Introduction to Modelling of Socio-Technical Systems' by Prof. Karmeshu, JNU was also organised.

These preliminary exposures will enable TIFAC to initiate activities on development of Quantitative Models for technology foresight in consultation with various stakeholders. Such expertise would also be employed appropriately, while carrying out 'Cross impact analysis' for TV 2035 sectors. Quantitative Foresight initiative for the Transport sector has been started in conjunction with IIT Kharagpur. TIFAC would leverage existing association International Institute for Applied Systems Analysis (IIASA), Vienna, toward enhancing expertise in the area.

1.5. Horizon Scanning

TIFAC is following the developments, breakthroughs and upheavals on the global technology landscape on a regular and continuous basis. Horizon scanning is done routinely for feeding forward technology intelligence in foresight activities for India and generating thematic reports assessing potential opportunities and threats linked with technologies showing up on the horizon.

Technology updates from multiple sources were collected regularly and posted on the TIFAC Facebook page (www.facebook.com/tifac.dst.india); in all, there were more than 4,000 posts during the year. The number of posts increased five times by the end of the period, while readership increased four times during this period. A database of the posts is maintained.

Over 2,500 scan hits of the year 2014 were examined for a feature "Disabling Disability" published in TIFACiTECH- the TIFAC Newsletter. 21 technologies with the potential to overcome disabilities were highlighted in the Center-spread.

The technology updates were also used as inputs to Technology Vision 2035 activity and in the sectoral technology roadmaps that are underway.

2. Nurturing Innovation

TIFAC has been supporting innovations at academic institutions, government R&D institutes, industry and also at individual level under its various innovation support programmes. Mainly this technical and financial support is provided in the form of assisting in assessing and filing patents and other IP applications, extending post patent support for technology refinement and marketing and further to upscale the technologies from pilot scale to industrial production scale under different programmes. These programmes are Patent Facilitating Centre (PFC), Technology Refinement and Marketing Programme (TREMAP) and TIFAC-SIDBI Revolving Fund for Technology Innovation Programme (SRIJAN). Each of these programmes have their own mandate and support system. TIFAC also endeavours to synergise the functioning and output of these programmes.

2.1. Patent Facilitating Centre (PFC)

PFC has been working towards facilitating filing patents and other IP applications on behalf of academic and government R&D institutions, creating awareness and deeper understanding of Patents and IPR, providing patent information as input to the process of R&D and also keep watch on the developments in the area of IPR and make it known to policy makers. Besides filing of patents and other IP applications PFC also actively prosecutes all these applications through its panel of attorneys and assure applicants best possible protection through appropriately grant of rights over the innovative and creative work of scientists and technologist. Further, it also maintains these rights for the period of 10 years from date of filing and beyond if substantial success is attained in using/commercialisation of patented inventions. Towards training and awareness PFC conducts workshops and training programme on IPR. During this financial year PFC has initiated process starting of eighth batch of KIRAN-IPR training for women scientists erstwhile WOS-C.

2.1.1 Patent/IP Facilitation:

PFC processed 55 new requests for filing of patent and other IP applications and has approved filing of 19 new patent applications, one industrial design registration and one copyright application covering a software. These have been referred to patent attorneys from its panel for filing of patent and other IP applications in India. In addition to this PFC has filed 16 patent application on behalf of INSPIRE Awardees of DST with in-house drafting and filing procedure.

2.1.1.1 Grant of Patents:

A total 10 patents as listed below have been granted by Indian Patent office based on patent facilitated earlier by PFC.

Table 2.1.1 Patents Granted during the year

| S. No | Patent No | Applicant | Title |
|-------|-----------|---|--|
| 1. | 265132 | Punjab University, Chandigarh | Sustained release pharmaceutical compositions containing curcumin and beta- cyclodextrin |
| 2. | 265023 | Panjabi University, Patiala | An improved process for inulinase production |
| 3. | 264631 | IIT Delhi, New Delhi | An apparatus decortication of oil fruits/seeds for separation of shell from kernel |
| 4. | 264361 | Mohanlal Sukhadia University, Udaipur & Rajasthan State Mines & Minerals Limited, Udaipur | A process for making slow release phosphate fertilizer |
| 5. | 263419 | Postgraduate Institute of Medical Education of Medical Education and Research, Chandigarh | A root canal filling material formulation for primary teeth |
| 6. | 263277 | Mumbai University Institute of Chemical technology , Mumbai | Novel mesoporous catalysts for industrial process |
| 7. | 262489 | Mumbai University Institute of Chemical technology , Mumbai | Catalytic applications of novel nanoporous composite material |
| 8. | 262457 | IIT Kanpur | A twin fluid internally mixed swirl atomizer |
| 9. | 261764 | Dr. Bhimrao Ambedkar Marathwada University, Aurangabad | Process for production of warfarin acid |
| 10. | 261567 | Sant Longowal Institute of Engineering & Technology, Sangrur | Process for large scale hydrogen production from renewable sources |

2.1.1.2 Students participants' in INSPIRE - Patent facilitation

PFC has been helping INSPIRE awardees for filing of patent application on their inventive work. This year PFC has filed 6 patent applications with complete specification based on 33 provisional patent applications filed in the year 2013 with regards to INSPIRE exhibits of 2012. PFC also filed 12 patent applications with provisional specification in October 2014 with respect to INSPIRE exhibits of 2013. All these applications are internally drafted and filed by PFC officials. Women scientist from previous batches also participated in the INSPIRE Exhibition organized by DST in October 2014 and helped PFC TIFAC for assessing patentability of about 950 exhibits by the school children. In this assessment IPR professionals from DRDO, Delhi University, IIT Delhi also helped PFC. The activity got coverage of Rajya Sabha TV.

2.1.2 Workshops on IPR

PFC conducted 2 workshops on IPR during the year. A workshop-cum-hands-on training on Patent Searches was conducted at Tezpur University, Assam in association with IPR Cell Tezpur University, Tezpur on September 6, 2014. It was attended by 57 faculty members and research scholars of the university, hands on patent search session were also conducted.

Another workshop on IPR was conducted at Jamia Millia Islamia, New Delhi on March 18, 2015 and was attended by more than 150 participants. They were given broad overview of IPR system in India specifically patent system and other related aspects were deliberated in the meeting.

2.1.3 Training for Officials from TIRADO Tanzania

A two day comprehensive training on various aspects of IPR and also technology foresight was given to two participants from Commission for Science and Technology (COSTECH), Tanzania and Tanzania Industrial Research Development Organization (TIRDO), Tanzania.

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

Knowledge Involvement in Research Advancement through Nurturing (KIRAN-IPR) scheme (erstwhile WOS-C) aims at mainstreaming the women having qualification in science & technology who have not been able to pursue their career due to domestic compulsions. It prepares them towards self-employment by providing on- job training in the area of IPR. The one-year programme is open to scientists having qualifications in science/ engineering / medicine or allied areas.

After receiving approval from DST, PFC-TIFAC is in the process of commencement of the 8th batch. As change in scheme upper age limit has been reduced to 45 years and the possibility of online exam is being explored. The stipend has been revised. For MSc/ BTech and equivalents the revised stipend is Rs 20,000/- PM in place of the earlier Rs 12,500/- and for PHD/MTech and equivalents the stipend has been increased from Rs 17,500/- to Rs 30,000/-PM.

During this year, 82 technology scan cum patent analysis reports were prepared by 7th batch of Women Scientist trainees. Topics of these reports were like patent analysis of 3D printing technology, 4G LTE technologies, wearable technologies, software, futuristic display, malaria

diagnostic and treatment, pharmaceuticals, etc. Many women scientists (about 55%) from 7th batch who completed training in January 2014 have got good jobs in the area of IPR and are pursuing their career in this field.

2.2 Technology Refinement and Marketing Programme (TREMAP)

India has immense innovation latency with a vast pool of potent individual inventors. However, tapping such potential has been a major challenge. Though there are various schemes for supporting innovations, need had been felt to extend support in the form of assessing the commercial potential of the innovation, provide requisite market linkage and fine tune it accordingly.

TREMAP was initiated during 2009 with the aims of facilitating linkages of developed products and innovative technologies, developed by individual innovators, with market. It addressed the innovation segment and helped / support them towards commercialization through an established network of Technology Commercialization Facilitators (TCFs), which acted as one stop shop for commercializing innovations. So far, thirty one (**31**) innovations have been supported and nine (**9**) innovations commercialized (technology transfer / collaboration / distributorship agreements signed). Under the program, Sixteen (**16**) high potential innovations (wherein Indian Patent has been granted) awarded with “**National Award for Commercializable Patent**”.

TREMAP scheme is currently under review for enhanced focus and a greater synergy with other innovation support schemes and hence activities under the scheme were kept in abeyance.

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

The programme was launched in November, 2010 with the objective of promoting scaling of technology innovations in the country. In this regard, TIFAC created a revolving fund with SIDBI to support industries particularly MSMEs. It facilitates bridging the last mile connectivity to take indigenously developed technologies from lab to market. TIFAC plays a key role in assessment of technology innovations and recommends scalable technologies to SIDBI, which carries out financial appraisal of projects and extends financial support to industries. Both existing as well as start-up companies are encouraged to scale up innovations which would boost manufacturing in India and encourage young innovators to become entrepreneurs.

A list of projects being supported by TIFAC is given below:

| S.No | Title | Implementing Industry | Total Project cost (Rs. lakhs) | Support under SRIJAN |
|---|--|---|--------------------------------|----------------------|
| New Projects : Technically Assessed & Recommended by TIFAC | | | | |
| 1. | Commercialization of Standard Rack Mountable, SMPS based Precision Regulated High Voltage Power Supplies | M/s. IONICS Power Solutions Pvt. Ltd., Hyderabad | 125.00 | 100.00 |
| 2. | Resource Recovery from Lithium, Lithium Ion and Nickel Metal Hydride Batteries by Environmentally Sound Recycling Technology | M/s. E-Parisaraa Pvt. Ltd., Bengaluru | 100.00 | 80.00 |
| 3. | Long fiber reinforced thermoplastics (LFT) compounds and advanced composites such as UD tapes, organo-sheets for injection/compression molded applications | M/s. Mans Composite Pvt. Ltd. Pune | 244.00 | 134.00 |
| 4. | RO-BOAT, an unmanned river surface cleaning robot | M/s. Omnipresent Robot Technologies Pvt. Ltd. New Delhi | 138.00 | 96.00 |
| 5. | Coil Edge Protector | M/s. Jyoti Cero Rubber, Jamshedpur | 121.79 | 95.00 |
| 6. | Extraction of Green Silica from Rice Husk Ash | M/s. Bridgedots Techservices Pvt. Ltd. Noida | 568.00 | 100.00 |
| 7. | Methanometer, LPG gas leak hunter and Manhole gas detector | M/s. Synchro Electronics, Kolkata | 83.00 | 66.40 |
| 8. | Development and manufacturing of Unmanned Aerial Vehicles (UAVs) | M/s. Sree Sai Aerotech Innovations Pvt. Ltd. Chennai | 133.50 | 68.00 |
| 9. | Production of Low Lactose milk | M/s. Madhumita Dairy Products, Bengaluru | 210.00 | 100.00 |
| Ongoing Projects | | | | |
| 1. | Commercialization of value added products for Agriculture, Animal Husbandry and Human application derived from sea plants | M/s. Aquagri Processing Pvt. Ltd. Manamadurai, Tamil Nadu | 1072.10 | 100.00 |
| 2. | Single release liner carrying label stock on each side along with ancillary conversion processes | M/s. Hassle Free Technologies, Greater Noida | 146.70 | 100.00 |

Ongoing Projects

| | | | | |
|----|---|---|---------|--------|
| 1. | Commercialization of value added products for Agriculture, Animal Husbandry and Human application derived from sea plants | M/s. Aquagri Processing Pvt. Ltd. Manamadurai, Tamil Nadu | 1072.10 | 100.00 |
| 2. | Single release liner carrying label stock on each side along with ancillary conversion processes | M/s. Hassle Free Technologies, Greater Noida | 146.70 | 100.00 |
| 3. | Table top automatic multiple variant dosa making machine | M/s. Mukunda Foods Private Ltd., Bengaluru | 180.00 | 50.00 |
| 4. | Upgradation of ROBOPLAZMA Structural cutting system | M/s. Plazma Technologies Pvt, Ltd., Pune | 125.00 | 100.00 |
| 5. | Techno-commercialization of metal recovery from electronic waste using thermal decomposition | M/s. Revive Electronic Waste Pvt. Ltd., Navi Mumbai | 200.00 | 100.00 |
| 6. | Design, Manufacturing and Commercialization of Inertial Navigation Sensors and Autopilot | M/s. Aeron Systems Private Ltd., Pune | 97.50 | 70.00 |
| 7. | Development and commercialization of Biodegradable soluble cutting/coolant oil | M/s. Ecocare Biolube India Pvt. Ltd., Coimbatore | 84.60 | 64.00 |

Projects Completed

| | | | | |
|----|---|--|--------|-------|
| 1. | Enhancing energy efficiency of cooling & heating systems (HVAC&R) through waste heat recovery | M/s. Mechworld Eco Pvt. Ltd., Nashik | 95.00 | 75.00 |
| 2. | Improved hybrid idlers for conveyor belt systems for application in steel, coke and cement industry | M/s. Jyoti Cero Rubber, Jamshedpur | 129.70 | 95.00 |
| 3. | Self-Grooving Rubber Rollers for Chromium free Cotton Ginning | M/s. Millennium Rubber Technologies Pvt. Ltd. Thrissur | 116.00 | 92.00 |
| 4. | Pouchable Grade Hi Sep battery separator with ribs and discrete dot configuration for flooded lead acid batteries | M/s. Raman Fibre Science Pvt. Ltd., Bengaluru | 123.37 | 95.00 |

2.3.1 New Projects:

Nine projects technically assessed and based on innovations were recommended to SIDBI for scaling up. The brief of the projects are as follows:

2.3.1.1 Commercialization of Standard Rack Mountable, SMPS based Precision Regulated High Voltage Power Supplies from M/s. IONICS Power Solutions Pvt. Ltd., Hyderabad

It is an indigenously developed Switch Mode Power Supply (SMPS) based High Voltage Power Supplies for application in precision instruments used in labs or healthcare equipment. It has wide range of switching frequency compared to existing Linear or Thyristor based power supplies. The product would be an import substitution at a lower price.

2.3.1.2 Resource recovery from Lithium, Lithium ion and Nickel Metal Hydride batteries by environmentally sound recycling technology from M/s. E-Parisaraa Pvt. Ltd., Bengaluru

It is a technology developed indigenously for recovery of wealth from waste. Precious metals like gold, silver and copper will be recovered from discarded Lithium Polymer, Lithium Ion, Nickel Metal Hydride, Nickel Sodium batteries. At present discarded batteries are generally exported to Belgium and they recover these precious metals. The new technology would enable India to recover such high value resources from spent mobile phone and laptop batteries.

2.3.1.3 Long fiber reinforced thermoplastics (LFT) compounds and advanced composites such as UD tapes, organo-sheets for injection/compression molded applications from M/s. Mans Composite Pvt. Ltd., Pune

An indigenous technology developed for making long glass fiber reinforced thermoplastic (LFT) for manufacturing various end products like semi-structural parts of Automotives, bicycle frames, beams, panels etc. The new design of die would enable every single fiber impregnated with polymer matrix in order to achieve best quality and performance of thermoplastics.

2.3.1.4 RO-BOAT- unmanned river surface cleaning equipment from M/s. Omnipresent Robot Technologies Pvt. Ltd., New Delhi

Semi autonomous equipment called RO-BOAT is developed indigenously which would clean surface trash from river in more effective and efficient way. It would be an unmanned vehicle with no submersible parts and capable of detecting and collecting trash floating on river surface both far and near the river bank. The pilot version has been successfully tested in the Yamuna and Ganga Rivers in association with Ganga Action Parivar (GAP). It would be a good indigenous technology for application in the cleaning of rivers including Ganga.

2.3.1.5 Coil Edge Protector from M/s. Jyoti Cero Rubber, Jamshedpur

The wire rod coils are transported from steel plants to various parts of India via Rail or Road. During transportation, coil edge surface of wired rod mills get damaged due to wooden packing. This leads to rejection of approx 13% steel rods at the customer's end. The new polymer based packaging

material with unique design has been developed that would impart strength, best gripping, air cushioning. This new protector would minimize surface damages of Wire Rod Mill coils during transportation and thus would reduce carbon footprint in steel industry.

2.3.1.6 Extraction of Green Silica from Rice Husk Ash from M/s. Bridgedots Techservices Pvt. Ltd. Noida

It is a technology for recovery of wealth from waste. The technology is developed for extracting highly dispersible grade silica from rice husk ash, a waste material of rice husk based power plants and the new material will be used in tyres as filler material. The high grade silica filling in tyres reduces rolling resistance and hence improves the fuel efficiency of vehicles.

2.3.1.7 Methanometer, LPG gas leak hunter and Manhole gas detector from M/s. Synchro Electronics, Kolkata

Methanometer, LPG Leak Hunter and Manhole Gas Detector are portable low cost devices for detecting leakage of hazardous gases e.g. methane, LPG etc. beyond threshold limits and raise alarm in case of leakage in confined areas. The products are presently imported in India. The technology has been indigenously designed and developed for commercial manufacturing of such detecting devices in India as import substitute.

2.3.1.8 Development and manufacturing of Unmanned Aerial Vehicles (UAVs) from M/s. Sree Sai Aerotech Innovations Pvt. Ltd., Chennai

Indigenously developed EASYPILOT for application in unmanned aerial vehicles and automobiles for use in agriculture, industrial inspections, entertainment industry, wild life conservation, GIS Mapping, defence application etc. The app based autopilot will make UAVs as 'any one can fly' to convert any drone into a user friendly gadget.

2.3.1.9 Production of Low Lactose milk from M/s. Madhumita Dairy Products Pvt., Ltd. Bengaluru

The indigenously optimized process using open source technology for making low Lactose milk from cow/buffalo milk, which will be used by people who suffer from lactose mal-digestion causing stomach pain particularly during early adulthood and old age. Lactose free cow milk is not available in Indian market so far other than soybean milk. The low lactose milk will be a better substitute for soya milk in terms of nutrients and calcium content as well as taste. It is a value addition of milk technology.

2.3.2 On-Going projects:

The following seven ongoing projects were periodically reviewed and monitored for successful implementation:

2.3.2.1 Value added products from sea weeds for application in agriculture, animal

2.3.2.1 Value added products from sea weeds for application in agriculture, animal husbandry and human consumption

Implementing Agency: M/s Aquagri Processing Pvt. Ltd. Mana Madurai, Tamil Nadu
Technology Know-how Partner: CSIR-CSMCRI, Bhavnagar

Technology Innovation:

Production of Carrageenan (hydrocolloids) and liquid plant nutrients from *Kappaphycus Alvarezii*, sea weeds, through a process of using freshly harvested sea weeds instead of dry weeds. This would reduce the requirements of water in processing and in turn would reduce the effluent discharge as well. The project would also bring further value addition to liquid bio-nutrient by way of concentrating the nutrients present in the seaweed extract. This would have better market value. In conjunction with the separation and concentration of nutrients the project will also explore the possibility of producing potable water as a byproduct. The project would expect to achieve a manufacturing process protocol with zero discharge.



P: 2.3.2.1: *Kappaphycus Alvarezii*-Sea weeds Existing facility at Mana Madurai

2.3.2.2. Single Release Liner carrying Label Stock on both side of liner

Implementing Agency: M/s. HassleFree Technologies, Greater Noida

Technology Innovation:

At present, the label stocks are developed on one side of release liner which is discarded after use and cannot be recycled due to presence of silicone. Industries find it difficult for dumping the waste release liners. The technology deals with the new concept of single release liner which carries printed label stock on both side of the liner to reduce generation of liner waste by 50%. It would reduce consumption of raw material, energy and cost of transportation resulting in cost reduction of label stock by at least 20%. The technology would reduce environmental pollution load. The new product has got appreciation from leading customers like Ranbaxy and other bottling companies.



P: 2.3.2.2 Both sided label stock on single release liner

2.3.2.3 Table top automatic multiple variant dosa making machine

Implementing Agency: M/s Mukunda Foods Private Limited, Bengaluru

Technology Innovation:

The project aims at scaling of indigenously developed table top portable dosa making machine of size 500*400 mm with a capacity of making 1 dosa /minute. The machine has the innovative design of stationary plate with moving mechanical spreader instead of moving plate in existing bigger size machines. This would result in reduced power consumption. The machine has minimum human intervention thus delivering clean dosa. The table top machine would find applications in quality service restaurants, retail outlets and catering services or even at home. The innovators just after passing out of engineering college launched a start-up company to manufacture this innovative product. Indian Angel Network has also invested in the project.



P.2.3.2.3 Automatic table top dosa making machine at customer's premises

2.3.2.4 Upgradation of ROBOPLAZMA Structural cutting system

Implementing Agency: M/s. Plazma Technologies Pvt, Ltd, Pune

Technology Innovation:

High quality plasma cutting system combined with precision robotics, integrated with simple, high speed "Roboswift" programming software developed for providing 2D and 3D cutting. The system enables a variety of jobs to be processed with one system. Touch sensor is replaced with robotically controlled non-contact laser line sensor measuring device. Specialized complex cutting jobs including under cuts of I Beams, square tubes etc. on all 4 sides are possible with this machine. A single robot can cut all types of profiles while existing machines use two robots for above and below cutting profiles. This faster, smarter, and cheaper solution gives unique flexibility for users to meet multiple customer needs simultaneously.



P.2.3.2.4 Robo Plazma cutting machine



Cutting profile

2.3.2.5 Metal recovery from electronic waste using thermal decomposition

Implementing Agency: M/s. Revive Electronic Waste Pvt. Ltd., Navi Mumbai

Technology Innovation:

Innovative process aims at recovering non-ferrous metals from obsolete printed circuit boards and associated plastics using customized pyrolysis plant. The indigenous design would deliver decentralized modular pyrolysis plant to be viable at lower scale of operation compared to conventional pyrolysis units of higher capacity. The hydrocarbon oil recovered from the pyrolysis process could be blended with furnace oil to save energy. The metal ingot recovered from the process would also contain precious metals like gold, copper, silver, etc.



P.2.3.2.5 Gold recovered from PCB's



Copper recovered from PCBs

2.3.2.6 Design, manufacturing of Inertial Navigation Sensors and autopilot

Implementing Agency: M/s. Aeron Systems Pvt. Ltd., Pune

Technology Innovation:

Indigenously designed sensor system comprises of two unique features namely the software algorithm and structural design of orthogonal frame making the product robust. Low cost MEMS based sensors would be used to deliver equivalent performance of high cost sensor using the proprietary algorithm making it compact, cheaper and maintenance free. The sensors would find applications for defence, automotive and industrial sectors. The Inertial Navigation System with dual frequency GPS has been already approved by R&D(E), DRDO, Pune and ARDE, Pune. The Company has secured firm order from BEL Chennai. The company is a start-up promoted by young entrepreneurs from IIT and MIT, Pune.



P.2.3.2.6 Inertial Navigation system with GPS for UAV application & other defense applications



Digital Inclinator for Industrial

2.3.2.7 Biodegradable Soluble Cutting / Coolant Oil (BSCO)

Implementing Agency: M/s. Ecocare Biolube India Private Ltd, Coimbatore, Tamil Nadu,
Technology know-how partner: CSIR-IIP, Dehradun

Technology Innovation:

Scaling of manufacturing of novel patented product of biodegradable soluble cutting/coolant oil derived from non-edible vegetable oil through suitable processing under controlled conditions. It would be a clean and eco-friendly alternative to conventional metal cutting oil which is derived from mineral oil and create environmental pollution when discarded. Several batches of the product were made and systematic field trials carried out in actual metal cutting industries.



P.2.3.2.7 Processing facility at M/s Ecocare, Coimbatore

2.3.3 Completed Projects

Following four innovations were successfully scaled up during the period. The brief of the projects are as follows:

2.3.3.1 Energy Efficient Cooling & Heating System

Implementing Agency: M/s. Mech World Eco Pvt. Ltd., Nasik
Technology know-how partner: IIT, Bombay

Technology Innovation:

Manufacturing of indigenously developed multi-utility heat pump which includes air to water and water to water heat pumps and desuperheater for various industrial applications scaled up using patented tube-tube heat exchanger technology developed by IIT-Bombay. The new design of heat exchanger would enable heat pumps to provide hot or cold utility in reduced time for heating water compared to conventional heat pumps thus would achieve better energy efficiency at lower cost. The product has been successfully demonstrated and installed at various places like Vipasana Meditation Centre, Igatpuri, McDonald's stores, Infosys Training Centre, Mysore etc.



P.2.3.3.1 Air to water Heat Pump



Waste heat recovery system installed

2.3.3.2 Hybrid Idler for conveyer system in steel industry

Implementing Agency: M/s. Jyoti Cero Rubber, Jamshedpur

Technology know-how partner: TATA Steel, Jamshedpur

Technology Innovation:

The new product would enhance average life of idler rollers of conveyer belt systems resulting in reducing maintenance related downtime and improving productivity. The patented technology relates to a process for coating of conveyer rollers with special type of polymer comprising a unique blend of high alumina ceramic powder and polymer. The coating provides the hybrid idler rollers high abrasion resistance properties and very low co-efficient of friction. It will reduce power consumption and savings in power is expected to be approx. 12 - 15% compared to conventional rollers. After extensive field trials, TATA Steel has placed commercial order for hybrid rollers on the Company. The company has got India SME giants awards 2013-14 from the Indian SME Forum in Mumbai for development of new materials in the areas of abrasion and corrosion resistance. An awareness meeting with industries towards promotion of Hybrid Idler technology was organized in Jamshedpur on 17th October 2014.



P.2.3.3.2 Hybrid Idlers for conveyer systems ready for dispatch

2.3.3.3 Self-Grooving Rubber Roller for Double Roller Cotton Ginning Machines

Implementing Agency: M/s. Millennium Rubber Technologies Pvt. Ltd., Thrissur, Kerala
Technology know-how partner: ICAR - CIRCOT, Mumbai

In existing double roller ginning machines, the rollers are made up of scrap leather tanned with chromium. During ginning operation, leather rollers are continuously abraded and carcinogenic chromium emitted into the environment and contaminated in the cotton lint. The abraded leather rollers also need manual re-grooving once in a week, which leads to huge downtime of machines. The self-grooving rubber roller would eliminate problems of chromium contamination and would be more environment and user friendly. It would significantly reduce the machine down time leading to higher productivity by about 30%. It would also reduce power consumption by 10-15% due to decrease in friction during operation. TIFAC jointly with CIRCOT and the company organized a technology road show and awareness campaign with ginners and ginning machine manufacturers at the Ginning Training Centre of CIRCOT in Nagpur on 25th July 2014. A leading ginning machine manufacturer in India has launched a modified double roller ginning machine named KRANTI with the new rubber rollers.



P.2.3.3.3 Advanced Ginning Machine Kranti

2.3.3.4 Pouchable Grade Hi Sep battery separator with ribs and discrete dot configuration

Implementing Agency: M/s Raman FibreScience Pvt. Ltd., Bengaluru

An improved version of composite battery separator for flooded lead acid batteries has been developed, manufactured and tested to serve the need of export markets and higher end OEM requirements wherein the product would run completely on automatic high speed plate enveloping machine. A variety of fibres, fillers and binders are used in manufacturing process to blend into a homogenous web and spread in a uniform manner giving uniform consistency and product performance. Hi Sep PG™ battery separators with ribs & discrete dot configuration would have improved properties like high resistance to electrochemical oxidation, absence of leachants, very low electrical resistance and exceptionally high resistance to temperature resulting in improved battery shelf life. The separator would be a viable substitute for existing polyethylene (PE) separator. The indigenously developed separators will be a low cost alternative to imported separators. The product has been tested and certified by leading battery manufacturer like Exide, Amaron. After successful commercialization, the plant was acquired by Hollingsworth & Vose Co. (H&V), USA in Nov 2014



P.2.3.3.4 Pouchable grade battery separator for two wheelers Pouchable grade battery separator in rolls with ribs

3. Technology Support to Industry

TIFAC follows a two-pronged need based approach in technology initiatives involving industry. On one hand, for the large industrial sectors, tailor made training programmes on technology foresight exercise and related areas are conducted. While, for the MSME sector, where the intervention design has to be a compressive one with much handholding, a broad-spectrum of activities is carried out. This includes activities ranging from the technology need assessment to providing testing and R&D facilities to technology upsizing demonstrations are carried out. Such technology intervention plans for industries are followed up with imparting of requisite capacity building measures.

3.1. MSME Program of TIFAC:

With a primary objective of providing R&D and technical support to the MSMEs, the program strives at building a platform for facilitating interactions of MSMEs with proximate and competent academia/R&D and Technical Institutions towards leveraging their knowledge and expertise base. The approach starts with a technology mapping and comprehensive assessment of technology needs with specific focus on technology status (product & process) in the cluster, identification of gaps (in terms of technology, competition and market requirements), and to design an appropriate and requisite technology interventions action plan for the cluster. Subsequent to the mapping, TIFAC undertakes need based capacity building initiatives in the cluster. Progress during the year is detailed below.

3.1.1. Completed Studies:

The following three (3) studies were completed:

3.1.1.1 Technology Gap Analysis Study for the Auto Components Cluster in Jamshedpur, Jharkhand:

The study focuses on the Auto Components cluster in Jamshedpur. It was carried out, with National Institute of Technology (NIT) Jamshedpur as the knowledge partner and Adityapur Small Industry Association (ASIA) as the industry partner. The study has brought forth inadequacy of new technologies and lack of skilled manpower. Towards making the cluster more competitive, the report has highlighted the introduction of new technologies and need for the appropriate technical support for manpower training, product design/ testing and related issues as well as product diversification.

3.1.1.2 Technology Gap Analysis Study for the Production/Manufacturing as well as Environmental Aspects in Readymade Garment Industry Cluster at Tirupur, Tamil Nadu:

The technological status of the Tirupur cluster in terms of energy, environment and productivity with reference to the latest technologies adopted by the domestic and international manufacturers was assessed. Also major problems and difficulties faced by the Tirupur Garment industry were

investigated- including indigenous design, development, technology, marketability, raw material availability, pricing, subsidiary and ancillary industries like processing units, effluent treatments, etc. PSG College of Technology, Coimbatore was the knowledge partner while Tirupur Exporter's Association (TEA) joined hands as the industry partner.

3.1.1.3 Technology Gap Analysis Study for the Plastics Cluster in Delhi:

Study focus is on the Delhi Plastics cluster, which includes areas of Nangloi and Peeragarhi (often called Udyognagar industrial area). Central Institute of Plastics Engineering and Technology (CIPET), Panipat was the knowledge partner, All India Plastic Manufacturers Association (AIPMA) being the industry partner. A detailed SWOT analysis of the cluster is presented. The study identifies gaps in processing and products manufacturing technology. In order to upgrade the technological base of the cluster and giving it a strategic direction, technology interventions have been identified in the action plan delineated in this study.

3.1.2 New Studies Initiated: Five (5) Studies in clusters of

| Sr. No. | MSME Cluster | Knowledge Partner (Technical Institute) |
|---------|---|--|
| 1. | Printing Cluster, Mysore | M.S. Ramaiah University of Applied Sciences, Bangaluru, Karnataka |
| 2. | Rice Milling Cluster Lakhisarai, Bihar | IIT-Patna, Bihar |
| 3. | Home Textile cluster, Karur | National Institute of Fashion Technology (NIFT) TEA, Tirupur, Tamil Nadu |
| 4. | Rice Milling Machinery Cluster, Raxaul, Bihar | IIT-Patna, Bihar |
| 5. | Ready made garments cluster, Patna, Bihar | National Institute of Fashion Technology (NIFT), Patna, Bihar |

3.1.3 Studies in Pipeline:

Studies are in pipe in the following clusters of:

- General Engineering Cluster, Coimbatore
- Saree cluster, Varanasi, U.P.
- General Engineering cluster, Phagwara, Punjab

3.1.4 Capacity Building Initiatives Undertaken:

A number of training programs were implemented in the following seven (7) clusters:

| Activity | Cluster | Date |
|--|--|-----------------|
| Workshop on 'Geographic Indicator' | Litchi cluster, Muzzaffarpur, Bihar | June, 2014 |
| Two (2) day training workshop on 'Productivity improvement through IE Techniques' | Readymade garment cluster, Tirupur, Tamil Nadu | September, 2014 |
| Seven (7) days training programme on use of 'CAD/CAM for fashion and clothing industry' | Readymade garment cluster, Tirupur, Tamil Nadu | September, 2014 |
| Two (2) day training workshop on Supply chain management for apparel industry | Readymade garment cluster, Tirupur, Tamil Nadu | January, 2015 |
| Two (2) days training on 'Creating awareness about safety, hygiene, health hazards and cleanliness' | Plastic cluster, Mumbai, Maharashtra | December, 2014 |
| An awareness programme on 3D Printing Technology | Plastic cluster, Mumbai, Maharashtra | March, 2015 |
| One (1) day training workshop on 'Understanding Merchandising Principles and Practices in the Home Textile Industries' | Textile cluster, Panipat | June 2014 |

3.1.5 In Pipeline: Besides several need based capacity building initiatives have also been planned in MSME clusters where studies have already been completed/ being completed.

3.2. MSME Internship Scheme

Academia/technical institutes of India have vast pool of human resource in the form of students but these students are not sufficiently oriented towards reaching out to the MSME Sector. Towards evolving a more inclusive approach of involving students in associating with MSME industries and addressing their intrinsic technological issues and problems, a new MSME Internship scheme has been launched. This motivates and facilitates enhanced and continued involvement of students and faculty of technical institutions with MSME industries towards providing them appropriate technical support besides furthering the innovation eco system.

Objectives of the Scheme

- Creation of a platform for establishing interaction between academia and MSME industries on a mutually win-win basis.
- Establishing a platform for the MSME cluster industries to access R&D and technical support leveraging the knowledge base of faculty and knowledgeable human resource in the form of students from of technical institutions.
- Providing hands on engagement and practical experience to the students and faculty on existing technical challenges in the industry and nurturing an innovation ecosystem that benefits both the industry as well as the technical institution.
-

The scheme has been launched with five Institutions namely: Indian Institute of Technology, Banaras Hindu University, Varanasi, Uttar Pradesh, -PSG College of Technology, Coimbatore. Tamil Nadu, -MS Ramaiah University of Applied Sciences, Bangalore, Karnataka, -Pimpri Chinchwad College of Engineering, Pune, Maharashtra and -VIT, Vellore, Tamil Nadu.

TIFAC currently supports one hundred and fifty students (thirty through each Institution) per year under the scheme.

- **Five (5)** interaction workshops/meets organized with students, faculty and industries at the empanelled institutes
- **One Hundred and Fifty (150)** student internships from around the country facilitated in MSME industries

3.3. Exports from MSME Sectors:

Background: Government of India had earlier constituted an Inter Ministerial Group (IMG) for addressing comprehensively the challenges of export oriented MSME Sectors including falling exports. As a follow up to the recommendations, TIFAC was entrusted with the task of coordinating, nucleating and facilitating follow up actions towards infusion of appropriate new technologies for boosting of exports. In subsequent consultations with office of the Secretary Ministry of Commerce, Department of Expenditure, Ministry of Finance and Ministry of MSME, it was decided to initially prioritize two or three sectors for intervention and begin with initial assessment of the sectors. The basis of selection of sectors is: potential for higher technology inputs, higher value realization, future potential and sector performance. Guar Gum, Electronics Systems Design and Manufacturing (ESDM), Technical Textiles and Essential Oils were the four sectors taken up initially.

Activities during the year included the following:

- Brainstorming Workshop held at Jodhpur with stakeholders i.e. Guar Gum industry association, Guar Gum industries, traders, Shellac and Forest Products Export Promotion Council, Min. Of Commerce, Min. of MSME, IICT – Hyderabad, FRI – Dehradun, ONGC, CAZRI – Jodhpur etc.
- Report on Guar '**GUAR : Status, Potential, Prospects, Challenges and R&D Road Map – Towards Boosting Exports**' handed over to Ministry of Commerce for further actions. The report prioritizes the R&D interventions and lays down an action plan towards boosting exports. The recommendations and roadmap are in two distinct categories: (i) dissemination of best practices and (ii) trajectory of R&D efforts covering the entire value chain of guar-seed, cultivation, processing, products and derivatives. The thrust among other things is on advanced methods, high value Guar derivitization and development of alternate guar applications.

Technical Textiles: Assessment Study Report with focus on manufacturing imported technical textile items in India is under preparation.

(Photographs) Guar Gum:



Guar Gum : Brainstorming Workshop at Jodhpur on 29th May, 2014



Technology Information, Forecasting And Assessment Council (TIFAC)
(An autonomous body of Department of Science & Technology, Govt. of India)

Final Guar Report

Mysore Printing Cluster:



Interaction Meet held at Mysore Printing Cluster on 4th August, 2014

3.4 Bioprocess and Bioproducts

The program aims towards carrying out systems studies in the field of bioprocess & bioproducts and supporting R & D in specific niche areas. Under the Program, earlier four specialized reports published and twelve projects were launched towards development & demonstration of new technologies in the areas of biotransformation & enzymatic processes for API, nutraceuticals, phyto-chemicals, value-added bioproducts, bio-energy & biofuels, etc

Major & unique national facility '*centre for biofuels*' pilot plant with a processing capacity of 80 kgs of biomass per day established at CSIR-NIIST, Trivandrum for investigating & assessing the technologies for lignocellulosic ethanol derived from Indian biomass along with development of other chemicals for improved process economics.

Twenty technical papers published in the journals, magazines, conference proceedings. Other achievements are given below.

3.4.1 Project Completed

Development of novel process in isolating standardized extract of Aloe Vera and its application for diabetes control was launched in partnership with Centre for Bioseparation Technology (CBST), VIT University, Vellore and M/s. Laila Pharmaceuticals Pvt. Ltd., Vijayawada, aimed to develop and standardize a novel process for aloe vera extract to control diabetes in human. The results of standardized Aloe Vera extract in alleviating diabetes achieved in pre-clinical animal models were found promising. However, human clinical trial findings did not corroborate the results obtained in animal study. The project concluded that at best it showed that standardized Aloe Vera extract is safe for human consumption, however, the response to therapy cannot be commented on in terms of efficacy from the present human clinical trials. With these findings and recommendations of the Advisory & Monitoring Committee, the project was declared as completed in January 2015.

3.4.2 Ongoing Projects

Pilot plant trials for '*Centre for Biofuels*' –Phase II at IIIST, Trivandrum for selected Indian biomass (sugarcane tops & cotton stalks) on composition, pretreatment, hydrolysis and fermentation are underway. The project objectives also include evaluation of energy requirements and cost for various process steps and to identify the areas/ parameters contributing to low efficiencies calling for their optimization.

Technology Assessment Study is being initiated on '*updated information of biomass availability and technologies for conversion to biofuels*' in Indian context. The first brainstorming meeting towards chalking out broad contours of the study was convened in January 2015 involving wide ranging experts from R & D institute, academia & industry, policy planners, users etc. It has been planned to include data collation, technology assessment, biomass characterization and technology planning. The study would come out with zone wise recommendation of appropriate technologies for conversion of available bio mass to bio fuels.

3.5 Collaborative Automotive R&D (CAR)

TIFAC had coordinated the Collaborative Automotive R&D (CAR) programme that supported technology development as per identified roadmap in pre-competitive consortia mode involving vehicle manufacturers, component manufacturers and R&D/ academic institutions. One of the 11 consortia projects supported under CAR was 'Competence development in Electromagnetic Manufacturing for manufacture of automotive components' with AMPRI Bhopal, IIT Bombay, IIT Delhi, IPR Gandhinagar and CMTI Bangalore as the consortia partners. TIFAC also involved BARC for providing technical leadership to this project and BARC pursued indigenous development of the EMF machine in accordance with the consortium project plan using its internal funds. During the year BARC completed development of a fully functional 40 kJ EMF machine and provided the Technical Knowhow to Electronics Corporation of India.

4. International Linkages

As part of its effort of aligning itself to its core activity as a Technology Think tank, TIFAC has been enhancing its efforts to establish linkages with various international organisations having synergy with TIFAC's areas of activity. Activities under different such international partnerships are accounted below.

4.1 India-IIASA Programme

India-IIASA Programme focuses on undertaking collaborative research projects among scientists from Indian S&T organizations/academic institutions with IIASA researchers in the areas on mutual interests and organizing training workshops.

4.1 Ongoing Studies:

Under the India-IIASA programme, the following four three studies were taken up and are ongoing:

1. Study on Development and Application of GAINS-City Model for Indian Cities in partnership with NEERI, Mumbai
2. Cluster study related to Land, Water and Climate change in association with IRMA Anand, NIT, Roorkee and CWRDM, Kerala

Climate change Adaptation Approaches for Sustainable Livelihoods with IRMA Anand.

Integrating hydrology, climate change and IWRM with livelihood issues: Development of methodology and a DSS for water-scarce Bundelkhand region in India with NIH, Roorkee.

Evaluation of soil nutrient budgets at field, farm and regional level in humid tropics of Kerala and development of a model for management of soil health with CWRDM, Kerala.

3. Agro –Biodiversity and Ecosystem Management: A study in Indian Agro climatic Sub-Zones in partnership with Institute for Social and Economic Change (ISEC), Bangalore

4.1.2 Completed Study

A study entitled 'Analysing Forest Carbon Accounts for Sustainable Policy options with special reference to livelihood issues' under the India-IIASA program. The study was launched in partnership with Indian Institute of Forest management (IIFM), Bhopal. The Study has provided interventions and recommendations for sustainable management of forests keeping in mind the livelihood options of the forest dependent communities.

In order to develop site specific India Forest Carbon Model with special reference to Sikkim and Madhya Pradesh, the team collaborated and signed an agreement with Forest Survey of India

(FSI), Dehradun. Income pattern of the forest dependent people had also been factored into the livelihood model.

4.2 Government Foresight Organizations Network (GFN)

TIFAC also participated in 5th Government Foresight Organization's Network (GFN) meet held in Seoul in October 2014. TIFAC would host 6th GFN meet in India. TIFAC is also developing a collaboration portal for GFN to synergise the activity of various countries.

4.3. Others

- TIFAC was represented in School of International Futures (SOIF) event Summer Retreat 2014 and discussions are on to hold similar event in Delhi in 2016
- The 6th Conference of the International Society for Integrated Disaster Risk Management (IDRiM 2015) would be held in Delhi and TIFAC would be a key organiser and focus on the role of technology in disaster management
- A high level delegation from Tanzania, visited TIFAC during September 2014. The delegation felt a need for conducting a week-long training programme for Tanzanian scientists in technology foresight and other areas by TIFAC .
- International visitors to TIFAC has also increased very significantly

5. Human Resources Development

5.1. Technology Foresight Training Program

TIFAC has gained substantial expertise in many unique areas of technology foresight such as scenario building, driver identification, backcasting, patent analysis have resulted in unique expertise. Such expertise resulted from the ongoing Technology Vision 2035 exercise at TIFAC and other concerted efforts by teams of scientists in learning and deliberating on various tools of foresight. TIFAC is now poised to disseminate these to other organisations both at national and international arena. TIFAC has already imparted trainings to other organizations as given below:

- Indian Oil Corporation Ltd. (IOCL) scientists training held in August 2013 – first such effort and was very successful. Other oil sector organisation have also evinced interest
- High level delegation from Tanzania, while visiting TIFAC in September 2014 suggested for conducting a week-long training programme for Tanzanian scientist.
- A team is coming for training in first week of March to India.
- TIFAC plans to approach PSUs and other institutions in India for conducting similar training exercises in foresight towards contributing to national capability development.

5.2 TIFAC Internship Scheme

For strengthening technology foresight activities of TIFAC, linkages with academia and sensitizing the students about future technology priorities, TIFAC started the internship scheme in August 2013. During the year 22 students went through internship under various TIFAC scientists. Specific technology domains covered by the interns are listed below:

1. Network Security
2. Biomass Utilization
3. Solar Photovoltaics
4. Impacts of electric vehicle
5. Brain-computer Interface for Detection of Learning Disability
6. Electric Vehicle, Lightweight Design and Materials
7. Rechargeable Energy Storage Systems for electric vehicles
8. Integrated Electric Wheelchair
9. Microbial Fuel Cells
10. Conversion of Cast Iron Foundries to Ductile Iron Foundries
11. Value Added Surgical Instruments in Baruipur Cluster
12. Malda Food Processing Cluster

5.3 Participation in National Conferences

- Shri Soumitra Biswas, Advisor and Ms. Nirmala Kaushik, Scientist 'E' attended a workshop on 'Technologies for Sustainable & Rural Development (TSRD-2014)', held during 4 - 5, July 2014 at Bhopal.

5.4 Participation in International Conferences, Trainings Programmes and Seminars

- Prof. Prabhat Ranjan, Executive Director, TIFAC and Sangeeta Baksi, Scientist 'E' attended a IIASA Governing Council Meeting held during 15 – 20, June 2014 at Austria.
- Sh. Suresh Babu Muttana, Scientist 'C' attended a symposium on 'Effect of vehicle mass reduction on onboard energy storage system in battery electric vehicle' held during 8- 10, July 2014 at Scotland, U.K.
- Dr. Gautam Goswami, Scientist 'E' attended a workshop on 'The role of Narrative in Strategic Foresight' held during 11-15, August 2014 at U.K.
- Prof. Prabhat Ranjan, Executive Director, TIFAC, Dr. Gautam Goswami, Scientist 'E' and Dr. Neeraj Saxena, Scientist 'E' attended a 5th meeting of the 'Government Foresight Organizations Network', held during 23 - 24, October 2014 at Seoul, Rep. of Korea.

- Prof. Prabhat Ranjan, Executive Director, TIFAC and Sangeeta Bakshi, Scientist 'E' attended a IIASA Governing Council Meeting held during 9 - 12, November 2014 at Austria.

5.5 Publications

1. Arghya Sardar and Prof. Prabhat Ranjan, Electronic Vehicle Identification: Towards Enabling Intelligent Transportation System in India, Auto Tech Review, June 2014
2. Bioreactors – Technology & Design Analysis: J Singh, N Kaushik, S Biswas, The Scitech Journal, Vol 01 Issue 06, June, 2014
3. Derivatives and Applications of Lignin –An Insight: A Agrawal, N Kaushik, S Biswas, The Scitech Journal, Vol 01, Issue 08, July, 2014
4. Biocatalysis and Biotransformation Process- An Insight: N Kaushik, S Biswas, J Singh, The Scitech Journal, Vol 01, Issue 08, August, 2014
5. Biofuels : Technology Trends, Indian Perspective and TIFAC Experiences: N Kaushik, presented & published in the proceedings of the Indo-US Conference on advanced ignocellulosic biofuels, CSIR-IICT Hyderabad, November 10-11, 2014
6. TIFAC MSME Program - Model & Experiences: Sanjay Singh & Rahul Kumar- presented in the 3rd National Rural Management Symposium held at KIIT, Bhubeneshwar, Orissa during November 20-21, 2014
7. Catering R&D and Technical Needs of Indian MSMEs- TIFAC Model & Experiences: Sanjay Singh, Dr. Prabhat Ranjan & Rahul Kumar- accepted for presentation in the 4th International and 8th National Conference on Management of Technology, the Official Conference of the Iranian Association for Management of Technology (IRAMOT 2014) held at Krish Island, Iran during December 1-2, 2014
8. R L Tanna et al.(including P. Ranjan), High-Current Long-Pulse Plasma Discharges In Aditya Tokamak, PLASMA-2014, Dec 2014

5.6 Invited Lectures

1. Prof. Prabhat Ranjan, Plenary keynote address at 6th Bihar Science Conference 2014, International conference on Science & Technology, Patna, December 2014
2. Prof. Prabhat Ranjan delivered a lecture on “Wireless Sensor Networks: Applications for Nation and Society” in National Workshop on Network, Network Simulation & Information Security[NWNSIS-2014] at Vallabh Vidyanagar, Gujarat, November 2014.
3. Prof. Prabhat Ranjan delivered a lecture on “Body and Brainwave Sensor based AAC and Environment Control System” at Indian Academy of Cerebral Palsy (IACP) organized First International and the IX Annual Conference, Hyderabad, October 2014

4. Prof. Prabhat Ranjan delivered a lecture on “Technology Vision 2035 : Manufacturing Sector” in Indo-UK workshop on Advanced Manufacturing, Bangalore, September 2014
5. Prof. Prabhat Ranjan delivered a lecture on “Real life application of Networked Embedded Systems” at Malviya National Institute of Technology, Jaipur , September 2014
6. Prof. Prabhat Ranjan, Panel moderator at CII GKAFAC Conference on "Sustainable Mobility with Electric Vehicle" , Ahmedabad, August 2014
7. Prof. Prabhat Ranjan delivered a lecture on “Real life application of Sensor Network” at Gujarat Forensic Science University, Gandhinagar, August 2014
8. Prof. Prabhat Ranjan , Panel moderator on “60 years of Netarhat Education” at J N Dar Memorial Function, IIC, Delhi, August 2014
9. Prof. Prabhat Ranjan delivered a special talk at IIASA, Vienna on “My Journey to Brain” , June 2014
10. Prof. Prabhat Ranjan delivered a talk on “3D printing technology” at State Innovation Council, Patna, May 2014
11. Prabhat Ranjan delivered a lecture on “Innovation & Techno Entrepreneurship”, Training Course on "Science Technology & Innovation for African Research and Policy Makers" organized by CICS, Chennai, April 2014.

6 Infrastructure and Resources

6.1 National Knowledge Network

During the year, TIFAC continued to make use of the connectivity to the National Knowledge Network (NKN). The connectivity provides TIFAC a 100 mbps line for internet connectivity and other services offered by NKN. Interactions were continued with National Informatics Centre (NIC) for making use of other provisions in the NKN.

6.2 E-Resources

TIFAC continued subscribing to E-resources, including IEEE, Oxford University Press, Cambridge University Press, Emerald Extra and Web of Knowledge, during the year and online desktop computer access were made available to the scientists. The e-resources are subscribed through the National Knowledge Network Consortium (NKRC), a DST-CSIR joint consortium. TIFAC requested the NKRC additional subscription of Springer Link and Science Direct. Inputs were given to the consortium for access to a wider range of E-resources through the NKRC.

6.3 Implementation of Official Language Policy

The implementation of Official Language policy under the Official Language Implementation Committee was continued. Six (6) Hindi workshops were organized for the benefit of employees. The Hindi Fortnight (Pakhwada) was organized in September 2014. TIFAC employees participated in 12 different competitive items and were given certificates and cash prizes.

6.4 Library

TIFAC Library, a knowledge Centre, facilitates and fosters the flow of the Scientific/ Technical information. The Library continued to strengthen its holdings by procuring scientific books/reports and journals/serials as per the requirement of TIFAC. A total 13 of scientific/technical books/reports were procured during the year, raising the total holding of TIFAC Library to 2,414. In addition 32 Nos. of scientific/technical journals , magazines and serials were subscribed.

6.5 TIFAC Information Interfaces

The Information Management Cell (IMC) continued maintaining the TIFAC Website (<http://www.tifac.org.in>). The websites served as interfaces for servicing queries received by some users. The TIFAC site was visited by more than 5 lakh users. About 280 queries pertaining to various schemes of TIFAC and technology areas were received and serviced through the web-mail.

TIFAC is now active on social media through Facebook and twitter with the following IDs:

- <https://www.facebook.com/tifac.dst.india>
- https://twitter.com/TIFAC_India

These are being used to reach out to people by sharing TIFAC events, activities, advertisements, schemes and opportunities. TIFAC is actively scouting latest technologies reported at various sources across the globe. Such scouted technology information having very important role in future technoscape, appear on Facebook page of TIFAC and has been liked, commented and discussed by many. This activity in turn helps us and others in foreseeing future technologies.

Our Facebook page showcases technology foresight along with futuristic with insights from eminent scientists and technocrats.

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AUDITORS' REPORT

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

REPORT ON THE FINANCIAL STATEMENTS

We have audited the accompanying financial statements of Technology Information Forecasting and Assessment Council (TIFAC) (hereinafter referred to as "Society"), which comprise the Balance Sheet as at 31st March 2015 and the Statement of Income & Expenditure for the year then ended, and a summary of significant accounting policies and other explanatory information.

MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

The Society's management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Society. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

AUDITOR'S RESPONSIBILITY

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Standards on Auditing issued by the Institute of Chartered Accountants of India. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence, about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor consider internal control relevant to the Society's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion in the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by the management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

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:-
 - i) In case of Balance Sheet, of the state of affairs of the TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC) as at 31st March, 2015; and
 - ii) In case of Income & Expenditure Account, excess of expenditure over income 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: 20-08-2015
Place: New Delhi

TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL
STATUTORY AUDIT FOR F/Y 2014-2015

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 2015

| S. No. | Name of the projects | Overdue up to six months | Overdue from more than six months up to 3 years | Overdue more than 3 years | Total |
|--------|---|--------------------------|---|---------------------------|---------------------|
| 1 | Home Grown Technology | 0.00 | 1305000.00 | 173624920.00 | 174929920.00 |
| 2 | Advanced Composite Programme Project | 0.00 | 40073357.00 | 105401360.00 | 145474717.00 |
| 3 | Sugar Technology Unit | 0.00 | 0.00 | 45990018.00 | 45990018.00 |
| 4 | Fly Ash Utilization | 0.00 | 0.00 | 13034000.00 | 13034000.00 |
| 5 | Agriculture and Agro Food Sector | 0.00 | 0.00 | 10625000.00 | 10625000.00 |
| 6 | Health Care Equipment | 0.00 | 0.00 | 0.00 | 0.00 |
| 7 | Targeted Programme in other important Sectors | 23274000.00 | 44874000.00 | 7020000.00 | 75168000.00 |
| 8 | Textile Machinery | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | Road Construction and Transportation | 0.00 | 0.00 | 0.00 | 0.00 |
| | Total | 23274000.00 | 86252357.00 | 355695298.00 | 465221655.00 |

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 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. 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 Asha Enterprises Pvt. Ltd. Out of the six floors two floors are occupied by NECTAR, which is being treated as separate 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 NECTAR 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 NECTAR.
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 NECTAR and, therefore, to this extent, the utilization of funds have been overstated in the case of TIFAC and understated in the cases of NECTAR.
5. TIFAC has granted TDA to various companies incorporated under the Companies Act in the *past*. But we have observed that the particular 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.
6. **Observation related to TREMAP (NCL Innovation), Pune**
 - No quarterly progress report submitted by Grantee.
 - No documentary evidence found in records in respect of following ,which should have been obtained as per the terms of agreement :
 - Six TREMAP plans per year
 - Two innovator's meet (p.a)
7. **Observation related to TREMAP (MCIIE-IT-BHU)**
 - No quarterly progress report submitted by Grantee.
 - No documentary evidence found in records in respect of following ,which should have been obtained as per the terms of agreement:
 - Six TREMAP plans per year
 - Two innovator's meet (p.a)
8. **Observation related to TREMAP MSRSAS**
 - No quarterly progress report submitted by Grantee after June,2013.
 - No documentary evidence found in records in respect of following ,which should have been obtained as per the terms of agreement :
 - Six TREMAP plans per year
 - Two innovator's meet (p.a)
 - Details of Two Awareness Camps
9. Two furniture items, namely Aluminum Door with Aluminum Frame and Name Boards costing Rs.29822/- in aggregate were purchased during the year under audit, but the same has not been recorded in Fixed Asset Register.
10. TIFAC has not obtained actuarial valuation regarding gratuity in respect of eligible employees and the same was not accounted for in the books of accounts in line with AS-15 issued by the Institute of Chartered Accountants of India.

11. TIFAC has incurred expenditure of Rs.270000 on account of IITF in the F.Y 2010-2011 on behalf of DST and the said amount has been classified under the head advances recoverable. The aforesaid amount is yet to be recovered from DST.
12. During the course of our audit, we have observed that TIFAC is fighting legal cases in respect of several payment defaulters u/s 138 of Negotiable Instruments Act, 1938 and few cases are pending since last more than 9 years. TIFAC may adopt alternative way for recovering their dues after taking legal opinion.

Details of parties are mentioned hereunder:

| <u>Name</u> | <u>Payment to be Received</u> | <u>Date of Case Filing</u> | <u>Status of Case</u> |
|--------------------------------------|-------------------------------|----------------------------|-----------------------|
| Maheshwari Rice Millers, Hyderabad | 106.25 Lacs | 31-08-2004 | Pending |
| M/s Emmbee Forest Products Pvt. Ltd. | 522.50 Lacs | 12-10-2009 | Pending |
| Multi Arc India Ltd. Mumbai | 125.00 Lacs | 06-06-2010 | Pending |
| M/s Selco International Pvt. Ltd. | 627.08 Lacs | 23-05-2008 | Pending |

13. Observation related to residential accommodation of Executive Director, TIFAC

During the FY 2013-14 TIFAC hired a residential accommodation for Executive Director, TIFAC and paid monthly rent of Rs. 50,000/- from June 2013 onwards & one time brokerage to the property dealer of Rs. 25,000/-

As per the letter dated 14.10.2013 of Ministry of Science and Technology, DST to TIFAC:

“These payments made by TIFAC were not as per the limits prescribed by the Ministry of Finance, Department of Expenditure O.M. No. 1(16)/E. II(A)/2008 dated May 08, 2009 and payments made above the specified limits are beyond the power of TEC/Secretary, DST.

They have directed TIFAC to hire the accommodation for the ED as per the financial limits and maximum area prescribed vide the aforesaid O. M. of the Department of Expenditure, according to which the maximum area including the servant quarter, garage, room for office work, to which ED, TIFAC is entitled will not exceed 1700 sq. ft. with maximum rent payable at Rs. 26,500/- per month. As per the direction TIFAC has to hire another accommodation for Executive Director as per these limits immediately. In case the ED, TIFAC chooses to reside in as house having larger area and higher rental, he should meet the excess expenditure over and above the limit, from his own resources.”

As per the letter dated 12.03.2014 of Ministry of Science and Technology, DST to TIFAC:

“Ministry of Science & Technology officials directed TIFAC to take necessary action as per the above mentioned letter dated 14.10.2013 and further the brokerage of Rs. 25,000/- paid to the agent for hiring the private accommodation may also be recovered from the ED, TIFAC as there is no provision for payment of any brokerage to hire the private accommodation by the Government.”

We have observed that during FY 2014-15 TIFAC has retained the same accommodation for ED, TIFAC even after the direction of Ministry of Science & Technology conveyed through letter dated 14.10.2013 and they have not recovered the excess amount of (Rs. 50,000/- less Rs. 26,500/-)*16 = Rs. 3,76,000/- paid as rent & Rs. 25,000/- as brokerage from ED, TIFAC. This was a violation of direction of Ministry of Science & Technology. However, TIFAC has started recovering Rs.28500/-per month since August 2014 and onwards.

14. 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 2015 this accumulated amount stands under the head Current Liabilities at Rs.16,54,617/- (under TIFAC A/c) and Rs. 51,277/- (under PFC new A/c) 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 & 4. Second floor not entirely occupied by NECTAR, TIFAC is also occupying part of second & sixth floor. Noted for taking up the issue at appropriate level.
5. Earlier not done, but TIFAC has started doing it. However, noted for future compliances.
- 6,7 & 8. The progress of the TCFs has been recorded in the form of Progress Report/minutes of the meeting. Further, the progress has also been reviewed by TIFAC officials from time to time during their visits to the TREMAP TCFs. Regarding submission of six TREMAP plans per year, organizing two innovators meet, awareness camps etc. by TCFs, it may be noted that TREMAP was dealing with the innovations of the individual innovators which needs detailed assessment and a lot of mentoring. Further, for submission of TREMAP plans, it was a mandatory requirement to have industry involvement in the project and an interest letter from the company in this regard. Looking at our innovation eco system and the expertise available in commercialization of innovations of the country, these tasks were difficult to fulfill. However, since efforts were made by many TCFs and the TREMAP Steering Committee while reviewing performance of the TCFs had recorded that the TCFs would need more time to develop expertise on the subject and hence they were continued.
9. The point has been noted for future compliance.
10. The point has been noted for future compliance.
11. DST will be requested to release the payment to TIFAC in respect of recovery of outstanding amount paid by TIFAC for India International Trade Fair.
12. Policy is already formulated with approval of Governing Council. Actions as per policy are now underway.
13. Governing Council has approved till August 2014. Thereafter, TIFAC has restricted its contribution to Rs.26,500/- (as prescribed by MoF) and balance amount is being deducted every month from the salary of Executive Director.
14. Medical Scheme is extended to TIFAC staff/officers for which a nominal amount is deducted from their salary as being done during CGHS Scheme of Central Government. This amount of Rs.17,05,894/- (i.e Rs.16,54,617/- + 51,277/-) will be treated as income to TIFAC. A proper approval from the competent authority will be taken to transfer the amount of Rs.17,05,894/- from Current Liabilities to Other Income from (Schedule 18).

TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL

SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31.03.2015

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 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 aggregating to Rs.23,80,570.06 issued by TIFAC during the period 1999 to 2015 have been taken as income during the year 2014-2015 and reflected under Other Income (Schedule 18)
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 Bhatla & Company
Chartered Accountants
FRN: 012686N

Sd/-
Ch. Chandra Sekhar Patro
(Partner)

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Executive Director
TIFAC

MRN: 091529

Date: 20-09-2015
Place: New Delhi

TECHNOLOGY INFORMATION, FORECASTING & ASSESSMENT COUNCIL
SCHEDULE FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31.03.2015

SHCHEDULE- 33 CONTINGENT LIABILITIES AND NOTES TO 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. **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.) | |
|---|--------------|---------------|
| 6.1 Value of Imports Calculated on C.I.F. Basis: | Current Year | Previous Year |
| Purchase of finished Goods | Nil | Nil |
| Raw Materials & Components (Including in transit) | Nil | Nil |
| Capital Goods | Nil | Nil |
| Stores, Spares & Consumables | Nil | Nil |

6.2 Expenditure in foreign currency:

| | | |
|--|----------------|----------------|
| a) Travel | Rs.11,18,933/- | Rs. 2,87,910/- |
| 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 |
|-------------------------------|-----|-----|

6.2 Remuneration to Auditors:

| | | |
|---------------------------|--------------|---------------|
| - Auditors Fee | Rs.69,115.00 | Rs. 62,832.00 |
| - Service Tax on above | Rs. 9,676.00 | Rs. 7,766.00 |
| - Taxation matters | Nil | Nil |
| - For management services | Nil | Nil |
| - For certificate | Nil | Nil |
| - Others | Nil | Nil |

7. 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-Myanmar S & T Friendship Library in Yangoon | 9,59,659.00 |
| 4. | MSEBAsh 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. | TIFACWorld Bank Project | 13,39,747.93 |
| 9. | DRDQPRF | 3,95,745.00 |
| | Total | 2,53,16,009.93 |

8. 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 |
| 4. | Advance: Acharya Vinaba Bhave Rural Hospital, Sawangi | 20,000.00 |
| 5. | Sundry Debtor: DST (IITF) | 2,70,000.00 |
| 6. | Security Deposit: DST (IITF) | 74,520.00 |
| | Total | 4,09,756.55 |

9. Audited financial statements/utilization statements duly certified by Chartered Accountants in respect of grant utilized/released during the year, has been received in the cases observed by us on test check basis.
10. 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.
11. Liability towards gratuity payable on death/retirement of employees is not provided for.
12. Provision for accumulated leave encashment benefit to employees is not being made since it shall be accounted for on cash basis.
13. A sum of Rs.16,54,617/- (under TIFAC A/c) and Rs. 51,277/- (under PFC new A/c) 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.
14. 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.
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 31.03.2014 and the Income and Expenditure Account for the year ended on that date.

For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

Sd/-
Ch. Chandra Sekhar Patro
(Partner)

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Executive Director
TIFAC

MRN: 091529

Date: 20-09-2015
Place: New Delhi

Technology Information Forecasting And Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2015

| <u>Schedule 1 - Corpus / Capital Fund</u> | TIFAC | | Transferring to their respective New Accounts | | | |
|---|-----------------------|-----------------------|---|--|---------------------|---------------------|
| | Current Year | Previous Year | Patent Facilitating Center (New Account) | Scholarship for Women Scientists (New Account) | Current Year | Previous Year |
| Opening Balance | 142,597,540.31 | 207,606,259.99 | 12,167,042.84 | 9,561,245.84 | 8,487,082.00 | 1,025,599.00 |
| Opening Balance related to SIDBI Earmarked for Release (Revolving Fund) | 170,000,000.00 | 140,000,000.00 | - | - | - | - |
| Earmarked for Release to SIDBI (Revolving Fund) | - | 30,000,000.00 | - | - | - | - |
| Amount Transferred from TIFAC account to PFC & SFWS New Account | - | - | - | - | - | - |
| Excess of Income over Expenditure | - | - | - | 2,605,797.00 | - | 7,461,483.00 |
| Year Adjustments | - | - | - | - | - | - |
| Total | 312,597,540.31 | 377,606,259.99 | 12,167,042.84 | 12,167,042.84 | 8,487,082.00 | 8,487,082.00 |
| Excess of Expenditure over Income | 32,578,233.60 | 65,008,719.68 | 13,744,965.59 | - | 1,084,947.00 | - |
| Amount transferred to PFC & SFWS New Account | - | - | - | - | - | - |
| Total | 32,578,233.60 | 65,008,719.68 | 13,744,965.59 | - | 1,084,947.00 | - |
| Closing Balance | 280,019,306.71 | 312,597,540.31 | (1,577,922.75) | 12,167,042.84 | 7,402,135.00 | 8,487,082.00 |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | | |
|--|--------------|---|---------------|
| Schedules Forming Part of Balance Sheet as at 31.03.2015 | | | |
| Particulars | Current Year | | Previous Year |
| | | | |
| 1. Capital Reserves : | | | |
| As Per Last Account | - | - | - |
| Addition during the year | - | - | - |
| Less : Deductions during the year | - | - | - |
| 2. Revaluation Reserves : | | | |
| As Per Last Account | - | - | - |
| Addition during the year | - | - | - |
| Less : Deductions during the year | - | - | - |
| 3. Special Reserve : | | | |
| As Per Last Account | - | - | - |
| Addition during the year | - | - | - |
| Less : Deductions during the year | - | - | - |
| 4. General Reserve : | | | |
| As Per Last Account | - | - | - |
| Addition during the year | - | - | - |
| Less : Deductions during the year | - | - | - |
| Total | | | |
| | | | |
| | | | |
| | | | |

Technology Information Forecasting And Assessment Council, (TIFAC)
Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 3 - Earmarked/Endowment Funds

| | 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 Funds | - | - |
| iii) Other Additions (Specify) | - | - |
| Total (a+b) | - | - |
| c) Utilization / Expenditure towards objectives of funds | | |
| i) Capital Expenditure | - | - |
| Fixed Assets | - | - |
| Other Additions (Specify) | - | - |
| ii) Revenue Expenditure | | |
| Salary, Wages and allowance etc | - | - |
| Rent | - | - |
| Other Administrative Expenditure | - | - |
| Total c) | - | - |
| Net Balance as at the year end (a+b-c) | - | - |

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 31.03.2015

Schedule 4 - Secured Loans and Borrowings

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

Note : Amounts due within one year

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)

Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 5 - Unsecured Loans and Borrowings

| Particulars | Current Year | | Previous Year | |
|------------------------------------|--------------|---|---------------|---|
| | | | | |
| 1. Central Government | - | - | - | - |
| 2. State Government (Specify) | - | - | - | - |
| 3. Financial Institutions | | | | |
| 4. Banks : | | | | |
| a) Term Loans | - | - | - | - |
| b) 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

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

Note : Amounts due within one year

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 7 - Current Liabilities And Provisions

| Particulars | Current Year | | Previous Year |
|---|--------------|--------------|---------------|
| | | | |
| A) Current Liabilities | | | |
| 1. Acceptances | | | - |
| 2. Sundry Creditors : a) For Goods | | | |
| M/s Blue Star Ltd | | | 169,274.00 |
| CGHS (Sh.Rajani Kanth Gupta) Ex. Registrar | | 2,550.00 | 2,550.00 |
| Permal Wallae Pvt. Ltd. | | 3,000.00 | |
| Payable by PFC to TIFAC (Contra) | | 5,000,000.00 | - |
| M/s Unique Interiors, New Delhi | | | - |
| India International Centre | | | - |
| 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) (Under TIFAC Account) of Annexure -12) | | 507,707.00 | 484,751.00 |
| TDS Payable (Sub Total (B) (Under PFC New Account) of (Annexure -12) | | 157,554.00 | 133,722.00 |
| 6. Other Current Liabilities | | | |
| Salary Payable (Prof. Ganapathy) | | 1,800.00 | 1,800.00 |
| Stale Cheque | | - | 2,365,446.06 |
| IIT-TIFAC Maintenance (Provisions) | | 8,057,470.00 | 13,140,000.00 |
| Expenses Payable (Sub Total (A) (Under TIFAC Account of Annexure - 12) | | 5,366,501.00 | 5,174,396.00 |

| | | | | | |
|--|--|--|----------------------|--|----------------------|
| Expenses Payable (Sub Total (A) (Under PFC New Account) of Annexure - 12) | | | 1,760,568.00 | | 1,167,936.00 |
| Expenses Payable (Sub Total (A) (Under SFWS New Account) of Annexure - 12) | | | 178,634.00 | | 372,629.00 |
| CPF (Under PFC New Account) | | | 26,000.00 | | 35,000.00 |
| GSLIS (Under PFC New Account) | | | 1,488.00 | | 346.00 |
| Medical Scheme (Under TIFAC Account) | | | 1,654,617.00 | | 1,423,467.00 |
| Medical Scheme (Under PFC New Account) | | | 51,277.00 | | 31,450.00 |
| Leave Travel Expenses Payable (Sh. Shambhu Kumar) (PFC New Account) | | | - | | 2,720.00 |
| Sh. Shambhu Kumar (House Building Advance) (PFC New Account) | | | - | | 8,000.00 |
| 6 (a) Specified Fund for Running Projects | | | | | |
| G.M.W Workshop (SRF) | | | 100,170.00 | | 216,578.00 |
| Preparation of Detailed Project Report & Design of R&D Schedule for Launch of National Mission Electric Mobility | | | - | | 547,907.00 |
| Preparation of Directory of Assistive Devices for Persons with Disabilities under SIPDA Scheme 2014-2015 | | | 1,071,806.00 | | - |
| 6 (b) Due to DST (Unspent Balance Amount In Respect of Old Projects) | | | | | |
| Project ICOSER | | | 13,202,152.00 | | 13,202,152.00 |
| Indian Myanmar S&T Friendship library in yangon | | | 959,659.00 | | 959,659.00 |
| MSEB-Ash Utilization / Management | | | 600,094.00 | | 600,094.00 |
| FAM Large Scale Stowing of HWP Pond Ash into the Underground Mines of SCCL (M) Manugure | | | 8,294,830.00 | | 8,294,830.00 |
| Earth Quake Serving Nature's Fury | | | 165,157.00 | | 165,157.00 |
| Total (i) | | | 47,163,034.00 | | 48,499,864.06 |

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)

Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 7 - Current Liabilities And Provisions

| Particulars | Current Year | | Previous Year | |
|--|--------------|----------------------|---------------|----------------------|
| | | | | |
| DRDO-PFC | | 395,745.00 | | 395,745.00 |
| MPSEB use of Fly Ash in Agriculture Development Thermal Power Plants, Sarni | | 356,825.00 | | 356,825.00 |
| Training Programme on IPR and WTO Issues for scientists/technologists working in Government sector | | 202,549.00 | | 202,549.00 |
| TIFAC-World Bank Project | | 1,339,747.93 | | 1,339,747.93 |
| 7.EMD/ Security Deposit | | | | |
| Earnest Money : M/s Nimbus Harbour Pvt Ltd | | 20,000.00 | | 20,000.00 |
| Earnest Money : M/s Pink House Keeping | | - | | 18,784.00 |
| Earnest Money from Sugar Factories (Annex 13) | | 3,300,000.00 | | 3,500,000.00 |
| Earnest Money : M/s Dogra Enterprises | | 5,000.00 | | 5,000.00 |
| Earnest Money : M/s Bagga Tours and Travels | | 50,000.00 | | 50,000.00 |
| Earnest Money : M/s Dip Technologies Pvt. Ltd | | 5,000.00 | | 5,000.00 |
| Earnest Money : M/s Perfect Traders | | 5,000.00 | | 5,000.00 |
| Earnest Money : M/s Asha Enterprises | | 50,000.00 | | - |
| Earnest Money : M/s Sarat Tours & Travels | | 50,000.00 | | - |
| Security deposit : M/s Pink House Keeping | | 18,784.00 | | 71,604.00 |
| Total (ii) | | 5,798,650.93 | | 5,970,254.93 |
| Total (i)+(ii) = (A) | | 52,961,684.93 | | 54,470,118.99 |

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)

Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 7- Current Liabilities And Provisions

| Particulars | Current Year | | Previous Year | |
|---------------------------------|--------------|---------------|---------------|---------------|
| | | | | |
| 3. Superannuation / Pension | - | - | | - |
| 4. Accumulated Leave Encashment | - | - | | - |
| 5. Trade Warranties / Claims | - | - | | - |
| 6. Others (Specify) | - | - | | - |
| Total (B) | | | | |
| Total (A+B) | | 52,961,684.93 | | 54,470,118.99 |

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)

Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 9 - Investments from Earmarked/Endowment Funds

| Particulars | 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 - Investments - Others

| Particulars | 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 | | - | | - |

Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)
Schedules Forming Part of Balance Sheet as at 31.03.2015

Schedule 11 - Current Assets, Loans, Advances Etc

| Particulars | 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) (Under TIFAC Account) | | 6,574.00 | | 6,195.00 |
| Cash Balances in Hand (including Cheques / Drafts and Imprest) (Under PFC New Account) | | 5,623.00 | | 520.00 |
| Cash Balances in Hand (including Cheques / Drafts and Imprest) (Under SFWA New Account) | | 911.00 | | 2,020.00 |
| 4. Bank Balances : | | | | |
| a) With Scheduled Banks : (Union Bank of India) | | | | |
| On Current Accounts | | | | |
| On deposit Accounts (Short Term deposits) (Annex-11) | 185,500,000.00 | | 155,500,000.00 | |
| Accrued Interest (Accrued Interest) (Annexure 11) | 43,965,571.00 | | 27,224,214.00 | |
| On Savings Accounts (Under TIFAC Account) | 18,687,269.55 | | 105,375,926.31 | |
| On Savings Accounts (Under PFC New Account) | 5,364,554.25 | | 13,406,683.84 | |
| On Savings Accounts (Under SFWA New Account) | 7,530,883.00 | 261,048,277.80 | 8,836,067.00 | 310,342,891.15 |
| b) With non-Scheduled Banks : | | | | |
| On Current Accounts | | | | |
| On deposit Accounts | | | | |
| On Savings Accounts | | | | |
| 5. Post Office - Savings Accounts | | | | |
| Total (A) | | 261,061,385.80 | | 310,351,626.15 |

| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | | |
|--|--------------|---------------------|---------------------|
| Schedules Forming Part of Balance Sheet as at 31.03.2015 | | | |
| Particulars | Current Year | | Previous Year |
| | | | |
| B) Loans, Advances and Other Assets :- | | | |
| 1. Loans: | | | |
| a) Staff Loan (Under TIFAC Account) (Annex-1) | | 2,268,652.00 | 2,324,364.00 |
| Staff Loan (Under PFC New Account) (Annex-1) | | 41,625.00 | 61,125.00 |
| Staff Loan (Under SFWS New Account) (Annex-1) | | - | - |
| 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 | 14,473.00 | | 677.00 |
| Advance : DAVP | 199,333.00 | | 43,179.00 |
| Advance : Acharya Vinaba Bhave Rural Hospital, Sawangi | 20,000.00 | | 150,000.00 |
| Advance : IIT-Delhi | | 233,806.00 | 193,856.00 |
| c) Others | | | |
| SAIL NMPP | 19,736.55 | | 19,736.55 |
| Sundry Debtor : DST (IITF) | 270,000.00 | | 270,000.00 |
| Security Deposit Lease Accommodation | 9,500.00 | | 9,500.00 |
| Security Deposit MTNL | 22,937.00 | | 25,937.00 |
| Security deposit Tata Teleservices Ltd | 16,000.00 | | 16,000.00 |
| Security deposit : Sh. Kapil Aggarwal | 100,000.00 | | 100,000.00 |
| Security Deposit : DST (IITF) | 74,520.00 | | 74,520.00 |
| Security deposit : UBI Locker Rent | 8,403.00 | | 8,403.00 |
| TIFAC/DST ITS Canada Workshop | 167,640.00 | | 88,732.00 |
| International Conference on Disaster Management | 44,493.00 | | - |
| Preparation of Detailed Project Report & Design of R&D Scheme for Launch of National Mission Electric Mobility | 1,008,322.00 | | - |
| Sh. Kapil Aggarwal (Rent) | 25,650.00 | | - |
| Payable by PFC to TIFAC (Contra) | 5,000,000.00 | | - |
| Security Deposit : Mrs. Veena Bhandari | 80,000.00 | | - |
| TDS (Indian Oil Corporation Limited) | 61,346.00 | 6,908,547.55 | 61,346.00 |
| Total (i) | | 9,452,630.55 | 3,253,519.55 |

| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | | |
|--|---------------------------|---|----------------|
| Schedules Forming Part of Balance Sheet as at 31.03.2015 | | | |
| Schedule 11 - Current Assets, Loans, Advances Etc | Current Year | | Previous Year |
| | 3. Income Accrued: | | |
| a) On Investments from Earmarked/ Endowment Funds | - | - | - |
| b) On Investment – Others | - | - | - |
| c) On Loans and Advances | - | - | - |
| d) Others | - | - | - |
| Interest Accrued from Union Bank of India (Under PFC New Account) | 7,162.00 | | 77,888.00 |
| Interest Accrued from Union Bank of India (Under SFWS New Account) | 48,975.00 | | 21,624.00 |
| 4. Claim Receivable | | | |
| TDS :CPF (FDR) UBI,SDA | - | - | - |
| TDS (FDR) Sarita Vihar, New Delhi | - | - | - |
| Income Tax for the F.Y 2004-2005 | - | - | - |
| Total (ii) | 56,137.00 | | 99,512.00 |
| Total (i) +(ii) = (B) | 9,508,767.55 | | 3,353,031.55 |
| Total (A) + (B) | 270,570,153.35 | | 313,704,657.70 |

| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | | |
|--|--------------|---|---------------|
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | | |
| Particulars | Current Year | | Previous Year |
| | | | |
| Schedule 12 - Income From Sales / Services | | | |
| 1. Income from Sales | | | |
| a) Sale of finished Goods | | - | - |
| b) Sale of Raw Material | | - | - |
| c) Sale of Scraps | | - | - |
| 2. Income from Services | | | |
| a) Labour and Processing Charges | | - | - |
| b) Professional/ Consultancy Services | | - | - |
| c) Agency Commissions and Brokerages | | - | - |
| d) Maintenance Services (Equipment/Property) | | - | - |
| e) Others (Specify) | | - | - |
| Total | | - | - |

| <u>Schedule 13 - Grants / Subsidies (TIFAC Regular)</u> | | |
|---|---------------|---------------|
| Particulars | Current Year | Previous Year |
| 1. From Central Government | | |
| TIFAC Grant | | |
| a) Grants in Aid (Plan) | 26,870,000.00 | 50,155,000.00 |
| b) Grant in Aid (Non-Plan) | 338,000.00 | 375,000.00 |
| c) Grant in Aid (Plan) Capital Assets | 2,667,000.00 | 607,000.00 |
| d) Grant in Aid (Salary) | 32,892,000.00 | 26,214,000.00 |
| e) Grant in Aid (Salary) Scheduled Castes | 8,000,000.00 | 4,271,000.00 |
| 2. State Government(s) | - | - |
| 3. Government Agencies | - | - |
| 4. Institutions Organisations | - | - |
| 5. International Organisations | - | - |
| 6. Other (Specify) | - | - |
| Total | 70,767,000.00 | 81,622,000.00 |

| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | | |
|--|-----------------|---------------|------------------|
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | | |
| Schedule 14 - Fees / Subscriptions | | | |
| Particulars | Current Year | Previous Year | |
| 1. Entrance Fees | - | - | - |
| 2. Annual Fees / Subscriptions | - | - | - |
| 3. Seminar / Program Fees | - | - | - |
| 4. Consultancy Fee | - | - | - |
| 5. Others (Specify) | - | - | - |
| RTIA Questions | 460.00 | | 3,024.00 |
| Tender for Car Hiring | 3,000.00 | | 2,000.00 |
| Tender for Housekeeping at TIFAC | 2,000.00 | | - |
| Tender for Laptops | - | | 5,000.00 |
| Tender for Supply of Drinking Water | - | | 1,500.00 |
| Tender for Digitalization of TIFAC Reports | - | | 6,500.00 |
| Total | 5,460.00 | | 18,024.00 |

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

| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | | |
|--|----------------------|---------------|----------------------|
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | | |
| Schedule 16 - Income from Royalty, Publication Etc. | Current Year | Previous Year | |
| Particulars | | | |
| 1) Income from Royalty | | | |
| 2) Income from Publications | 48,378.00 | | 77,634.00 |
| 3) Other (Specify) | - | | - |
| Total | 48,378.00 | | 77,634.00 |
| Schedule 17 - Interest Earned (Regular) | | | |
| Particulars | Current Year | Previous Year | |
| 1. On Term Deposits | | | |
| a) With Scheduled Banks | 16,741,357.00 | | 13,635,659.00 |
| b) With Non-Scheduled Banks | | | |
| c) With Institutions | | | |
| d) Others | | | |
| 2. On Savings Accounts | | | |
| a) With Scheduled Banks | 2,605,572.00 | | 5,230,404.00 |
| b) With Non-Scheduled Banks | | | |
| c) Post Office Savings Accounts | | | |
| d) Others (Project Interest) | | | |
| 3. On Loans : | | | |
| a) Employees / Staff (LTA, Scooter ,Car, tour and LTC) | 34,272.00 | | 43,447.00 |
| b) Others (Interest from Income Tax) House Building Advance | - | | 13,143.00 |
| 4. Interest on Debtors and Other Receivables | | | |
| Total | 19,381,201.00 | | 18,922,653.00 |

Note : Tax deducted at source to be indicated

| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | |
|---|---------------------|-------------------|
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | |
| <u>Schedule 18 - Other Income</u> | Current Year | Previous Year |
| Particulars | | |
| 1. Profit on sale / disposal of Assets | | |
| a) Owned assets | - | - |
| b) Assets acquired out of grants, or received free of cost | - | - |
| 2. Export Incentives realized | | |
| 3. Fees for Miscellaneous Services | | |
| 4. Miscellaneous Income | | |
| Other Receipts (Computers) | - | - |
| Bank Charges | - | - |
| Other Receipts | 5,988.00 | 1,700.00 |
| State Cheques (Income) | 2,380,570.06 | - |
| Leave Salary & Pension Contribution | - | 26,700.00 |
| 5. Income Accrued and Received on Running Projects | | |
| Other Receipt : IREMAI* Unspent Balance Returned : Auto Waste Gear Koller Wall Mount Wet Grinder | - | 190,307.00 |
| Other Receipt : Indian Oil Corporation Ltd (Overheads) | - | 102,244.00 |
| Contingency : Prepratoin of Directory of Assistive Devices for Persons with Disabilities under SJFDA Scheme | 35,603.00 | - |
| Overhead : Prepratoin of Directory of Assistive Devices for Persons with Disabilities under SJFDA Scheme | 149,533.00 | - |
| Total | 2,571,694.06 | 320,951.00 |

| <u>Schedule 19 - Increase / (Decrease) in stock of Finished Goods & Work in Progress</u> | | |
|--|--------------|---------------|
| Particulars | Current Year | Previous Year |
| a) Closing Stock | | |
| Finished Goods | - | - |
| Work-in-Progress | - | - |
| b) Less : Opening Stock | | |
| Finished Goods | - | - |
| Work-in-Progress | - | - |
| Total | - | - |

| <u>Technology Information Forecasting And Assessment Council, (TIFAC) (Regular)</u> | | |
|---|----------------------|----------------------|
| <u>Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015</u> | | |
| <u>Schedule 20 - Refund from Projects, (TIFAC Regular Account)</u> | | |
| Particulars | Current Year | Previous Year |
| Home Grown Technology (Annex-2) | 5,652,093.00 | 10,294,000.00 |
| Advanced Composites Programme (Annex-2) | 8,119,230.00 | 13,017,020.00 |
| TePP Project (Annex-2) | - | 49,185.00 |
| Fly Ash Utilisation Programme (Annex-2) | 10,000.00 | 10,000.00 |
| Refund from Projects (Vision 2020) (Annex 2) | 33,405,046.12 | 7,665,879.24 |
| Total | 47,186,369.12 | 31,036,084.24 |

| Schedule 21 - Establishment & Other Administrative Expenses | | | |
|---|----------------------|---------------|----------------------|
| Particulars | Current Year | Previous Year | |
| Establishment Expenditure (TIFAC Regular) (Annex 3) | 59,066,194.00 | | 53,068,553.00 |
| Administrative Expenses (TIFAC Regular) (Annex 4) | 17,830,433.68 | | 26,225,617.76 |
| Establishment & Administrative Expenditure (Vision 2020)(Annex-6) | 15,330,881.00 | | 13,958,237.00 |
| Total | 92,227,508.68 | | 93,252,407.76 |
| Schedule 22 - Expenditure on Grants, Subsidies Etc | | | |
| Particulars | Current Year | Previous Year | |
| Grants given to Institutions/Organisations | | | |
| Project Expenditure (TIFAC Regular) (Annex - 5) | 52,309,179.20 | | 83,729,495.65 |
| Project Expenditure (Vision 2020)(Annex-6A) | 15,415,753.00 | | 7,182,495.00 |
| Project Expenditure (Vision 2035) (Annex-7) | 2,873,945.00 | | 4,044,291.00 |
| Total | 70,598,877.20 | | 94,956,281.65 |
| Technology Information Forecasting And Assessment Council, (TIFAC) (Regular) | | | |
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | | |
| Schedule 23 - Interest | | | |
| Particulars | Current Year | Previous Year | |
| a) On Fixed Loans (Including Bank Charges) | - | | - |
| b) On Other Loans (Including Bank Charges) | - | | - |
| c) Others (Specify) | - | | - |
| Total | - | | - |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | |
|--|--------------|---------------|
| Patent Facilitating Centre | | |
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | |
| <u>Schedule 24 - Grants / Subsidies (Patent Facilitating Centre) (Irrevocable Grants & Subsidies Received)</u> | | |
| Particulars | Current Year | Previous Year |
| <u>Grant Received under PFC New Account</u> | | |
| 1. From Central Government | | |
| 2. Patent Facilitating Centre Grants | | |
| a) Grants in Aid (Plan) | - | 15,000,000.00 |
| b) Grant in Aid (Non-Plan) | - | - |
| 3. State Government(s) | - | - |
| 4. Government Agencies | - | - |
| 5. Institutions Organisations | - | - |
| 6. International Organisations | - | - |
| 7. Other (Specify) | - | - |
| Total | - | 15,000,000.00 |

| <u>Schedule 25 - Interest Earned (Patent Facilitating Centre)</u> | | |
|---|--------------|---------------|
| Particulars | Current Year | Previous Year |
| <u>Interest Earned under PFC New Account</u> | | |
| 1. On Term Deposits | | |
| a) With Scheduled Banks | 286,800.00 | 387,908.00 |
| b) With Non-Scheduled Banks | - | - |
| c) With Institutions | - | - |
| d) Others (Interest : Scooter, LTA, LTC & Car) | 10,248.00 | 3,385.00 |
| Total | 297,048.00 | 391,293.00 |

| <u>Schedule 26- Other Income (Patent Facilitating Centre)</u> | | |
|---|------------------|------------------|
| Particulars | Current Year | Previous Year |
| <u>Other Income under PFC New Account</u> | | |
| Other Income (Annex-8) | 17,483.00 | 14,000.00 |
| Total | 17,483.00 | 14,000.00 |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | |
|--|----------------------|----------------------|
| Patent Facilitating Centre | | |
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | |
| <u>Schedule 27 - Establishment & Administrative Expenditure (PFC)</u> | | |
| Particulars | Current Year | Previous Year |
| <u>Establishment & Administrative Expenditure under PFC New Account</u> | | |
| Establishment & Administrative Expenditure (Annex-9) | 13,671,352.59 | 12,253,098.00 |
| Total | 13,671,352.59 | 12,253,098.00 |
| | | |
| | | |
| <u>Schedule 28- Project Expenditure (PFC)</u> | | |
| Particulars | Current Year | Previous Year |
| <u>Project Expenditure under PFC New Account</u> | | |
| Project Expenditure (Annex-10) | 388,144.00 | 546,398.00 |
| Total | 388,144.00 | 546,398.00 |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | |
|--|--------------|---------------|
| Scholarship for Women Scientists | | |
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | |
| <u>Schedule 29 - Grants / Subsidies (Scholarship for Women Scientists) (Irrevocable Grants & Subsidies Received)</u> | | |
| Particulars | Current Year | Previous Year |
| <u>Grant Received under SFWS New Account</u> | | |
| 1. From Central Government | | - |
| 2. Scholarship for Women Scientists Grants | | |
| a) Grants in Aid (Plan) | | 22,000,000.00 |
| b) Grant in Aid (Non-Plan) | | - |
| 3. State Government(s) | | - |
| 4. Government Agencies | | - |
| 5. Institutions Organisations | | - |
| 6. International Organisations | | - |
| 7. Other (Specify) | | - |
| Total | - | 22,000,000.00 |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | | |
|--|-------------------|---------------|-------------------|
| Scholarship for Women Scientists | | | |
| Schedules Forming Part of Income & Expenditure for the year ended 31.03.2015 | | | |
| <u>Schedule 30- Other Income (SWS)</u> | | | |
| Particulars | Current Year | Previous Year | |
| <u>Other Income under SFWS New Account</u> | | | |
| Interest on Savings Account | 450,086.00 | | 121,480.00 |
| Interest (Staff Advance) | | | 184.00 |
| Total | 450,086.00 | | 121,664.00 |

| <u>Schedule 31 - Expenditure (SWS)</u> | | | |
|--|---------------------|---------------|----------------------|
| Particulars | Current Year | Previous Year | |
| <u>Project Expenditure under SWS New Account</u> | | | |
| Scholarship for Women Scientist | 52,839.00 | | 12,388,939.00 |
| TA/DA for Attending Orientation Programme & Workshop | - | | 1,231.00 |
| Computers | - | | 500,000.00 |
| Faculty Honorarium and Travel for Orientation & Workshop | - | | 36,523.00 |
| Workshop and Training | - | | 689,449.00 |
| Contingency | 197,225.00 | | - |
| Overheads | 396,043.00 | | 280,027.00 |
| Salary of Accounts Assistant | 216,697.00 | | 180,000.00 |
| Salary of Data Entry Operator | 167,807.00 | | 147,934.00 |
| Salary for Training Assistant | 168,106.00 | | 148,356.00 |
| Salary for Training Coordinator | 322,500.00 | | 277,360.00 |
| Ad-Hoc Bonus | 13,816.00 | | 10,362.00 |
| Total | 1,535,033.00 | | 14,660,181.00 |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | | |
|---|-------------------------|-----------------------|---------------------------|
| Balance Sheet as at 31.03.2015 | | | |
| | Schedule | Current Year | Previous Year |
| CORPUS / CAPITAL FUND AND LIABILITIES | | | |
| Corpus / Capital Fund (Under TIFAC Main Account) | Schedule 1 | 280,019,306.71 | 312,597,540.31 |
| Corpus/Capital Fund (Under PFC New Account) | Schedule 1 | (1,577,922.75) | 12,167,042.84 |
| Corpus/Capital Fund (Under SFWS New Account) | Schedule 1 | 7,402,135.00 | 8,487,082.00 |
| 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 | 52,961,684.93 | 54,470,118.99 |
| Total | | 338,805,203.89 | 387,721,784.14 |
| Assets | | | |
| Fixed Assets (Net) | Schedule 8 | 68,235,050.54 | 74,017,126.44 |
| Investments-From Earmarked / Endowment Funds | Schedule 9 | - | - |
| Investments-Others | Schedule 10 | - | - |
| Current Assets, Loans, Advances etc. | Schedule 11 | 270,570,153.35 | 313,704,657.70 |
| Miscellaneous Expenditure (to the extent not written off or adjusted) | | | |
| Total | | 338,805,203.89 | 387,721,784.14 |
| Significant Accounting Policies and Notes on Accounts | Schedule 32 | | |
| Contingent Liabilities | Schedule 33 | | |
| | | - | |
| As per our report of even date Annexed herewith | | | |
| For Anil Bhatla & Company | | | |
| Chartered Accountants | | | |
| FRN : 012686N | | | |
| sd/- | Sd/- | Sd/- | Sd/- |
| Ch.Chandra Sekhar Patro | Accounts Officer | Registrar | Executive Director |
| Partner | TIFAC | TIFAC | TIFAC |
| Membership No.091529 | | | |
| Date : 20.08.2015 | | | |
| Place : New Delhi | | | |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | | |
|---|-------------------------|-----------------------|---------------------------|
| Income & Expenditure Account for the Year Ended 31.03.2015 | | | |
| | Schedule | Current Year | Previous Year |
| Income | | | |
| Income from Sales / Services | Schedule 12 | - | - |
| Grants / Subsidies | Schedule 13 | 70,767,000.00 | 81,622,000.00 |
| Fees / Subscriptions | Schedule 14 | 5,460.00 | 18,024.00 |
| Income from Investments | Schedule 15 | - | - |
| Income from Royalty, Publication etc | Schedule 16 | 48,378.00 | 77,634.00 |
| Interest Earned | Schedule 17 | 19,381,201.00 | 18,922,653.00 |
| Other Income | Schedule 18 | 2,571,694.06 | 320,951.00 |
| Increased/(Decrease) in stock of Finished Goods and Works-in-Progress | Schedule 19 | - | - |
| Refund from Projects | Schedule 20 | 47,186,369.12 | 31,036,084.24 |
| Total (A) | | 139,960,102.18 | 131,997,346.24 |
| Expenditure | | | |
| Establishment & Other Administrative Expenses | Schedule 21 | 92,227,508.68 | 93,252,407.76 |
| Expenditure on Grant, Subsidies etc | Schedule 22 | 70,598,877.20 | 94,956,281.65 |
| Interest | Schedule 23 | - | - |
| Depreciation (Net Total at the Year end) | Schedule 8 | 9,711,949.90 | 8,797,376.51 |
| Total (B) | | 172,538,335.78 | 197,006,065.92 |
| Balance being excess of Income over Expenditure (A-B) | | | |
| Balance being excess of Expenditure over Income (A-B) | | 32,578,233.60 | 65,008,719.68 |
| Transfer to Special Reserve (Specify each) | | | |
| Transfer to / from General Reserve | | | |
| Balance Being Surplus (Deficit) carried to Corpus/Capital Fund | | 32,578,233.60 | 65,008,719.68 |
| Significant Accounting Policies & Notes on Accounts | Schedule 32 | | |
| Contingent Liabilities | Schedule 33 | | |
| As per our report of even date Annexed herewith | | | |
| For Anil Bhatla & Company | | | |
| Chartered Accountants | | | |
| FRN : 012686N | | | |
| sd/- | Sd/- | Sd/- | Sd/- |
| Ch.Chandra Sekhar Patro | Accounts Officer | Registrar | Executive Director |
| Partner | TIFAC | TIFAC | TIFAC |
| Membership No.091529 | | | |
| Date : 20.08.2015 | | | |
| Place : New Delhi | | | |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | | |
|---|------------------|----------------------|----------------------|
| Patent Facilitating Centre (Under PFC New Account) | | | |
| Income & Expenditure Account for the Year Ended 31.03.2015 | | | |
| | Schedule | Current Year | Previous Year |
| Income | | | |
| Grants / Subsidies | Schedule 24 | - | 15,000,000.00 |
| Interest Earned | Schedule 25 | 297,048.00 | 391,293.00 |
| Other Income | Schedule 26 | 17,483.00 | 14,000.00 |
| Refund from Projects | | | |
| Total (A) | | 314,531.00 | 15,405,293.00 |
| Expenditure | | | |
| Establishment Expenditure / Administrative Expenditure | Schedule 27 | 13,671,352.59 | 12,253,098.00 |
| Project Expenditure | Schedule 28 | 388,144.00 | 546,398.00 |
| Total (B) | | 14,059,496.59 | 12,799,496.00 |
| Balance being excess of Income over Expenditure (A-B) | | | 2,605,797.00 |
| Balance being excess of Expenditure over Income (A-B) | | 13,744,965.59 | |
| Balance being Surplus/Deficit transferred to Corpus / Capital Fund | | 13,744,965.59 | 2,605,797.00 |
| As per our report of even date Annexed herewith | | | |
| For Anil Bhatla & Company | | | |
| Chartered Accountants | | | |
| FRN : 012686N | | | |
| sd/- | Sd/- | Sd/- | Sd/- |
| Ch.Chandra Sekhar Patro | Accounts Officer | Registrar | Executive Director |
| Partner | TIFAC | TIFAC | TIFAC |
| Membership No.091529 | | | |
| Date : 20.08.2015 | | | |
| Place : New Delhi | | | |

| Technology Information Forecasting And Assessment Council, (TIFAC) | | | |
|--|-------------------------|---------------------|---------------------------|
| Scholarship for Women Scientists (Under Scholarship for Women Scientist New Account) | | | |
| Income & Expenditure Account for the Year Ended 31.03.2015 | | | |
| | Schedule | Current Year | Previous Year |
| Income | | | |
| Grants / Subsidies | Schedule 29 | - | 22,000,000.00 |
| Other Income | Schedule 30 | 450,086.00 | 121,664.00 |
| Refund from Projects | | | |
| Total (A) | | 450,086.00 | 22,121,664.00 |
| Expenditure | | | |
| Expenditure | Schedule 31 | 1,535,033.00 | 14,660,181.00 |
| Total (B) | | 1,535,033.00 | 14,660,181.00 |
| Balance being excess of Income over Expenditure (A-B) | | | 7,461,483.00 |
| Balance being excess of Expenditure over Income (A-B) | | 1,084,947.00 | |
| Balance being Surplus/Deficit transferred to Corpus / Capital Fund | | 1,084,947.00 | 7,461,483.00 |
| As per our report of even date Annexed herewith | | | |
| For Anil Bhatla & Company | | | |
| Chartered Accountants | | | |
| FRN : 012686N | | | |
| sd/- | Sd/- | Sd/- | Sd/- |
| Ch.Chandra Sekhar Patro | Accounts Officer | Registrar | Executive Director |
| Partner | TIFAC | TIFAC | TIFAC |
| Membership No.091529 | | | |
| Date : 20.08.2015 | | | |
| Place : New Delhi | | | |

TECHNOLOGY INFORMATION FORECASTING AND ASSESSMENT COUNCIL (TIFAC) (REGULAR)
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2015

| (Amount - Rs) | | | | | | | | | | |
|--|----------------------|--|---------------------------|----------------------------|--------------------------------|---------------------------------|--------------------|-------------------------|----------------------------|-----------------------------|
| SCHEDULE & FIXED ASSETS | Rate of Depreciation | GROSS BLOCK | | | | DEPRECIATION | | | NET BLOCK | |
| | | 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 | 10.00 | 117,850,000.00 | - | - | 117,850,000.00 | 76,758,245.84 | 4,109,175.42 | 80,867,421.26 | 36,982,578.74 | 41,091,754.16 |
| e) Interior work of TIFAC Building | 10.00 | 52,476,907.00 | - | - | 52,476,907.00 | 24,096,723.76 | 2,838,018.32 | 26,934,742.08 | 25,542,164.92 | 28,380,183.24 |
| 3. PLANT MACHINERY & EQUIPMENT : Fire Alarm System at TIFAC Building & Fire Extinguishers | 15.00 | 1,065,698.00 | 13,080.00 | - | 1,076,728.00 | 560,982.95 | 76,384.51 | 637,367.46 | 439,560.54 | 502,715.05 |
| 4. VEHICLES | | - | - | - | - | - | - | - | - | - |
| 5. FURNITURE & FIXTURES | 10.00 | 1,797,852.60 | 76,337.00 | - | 1,874,189.60 | 1,436,376.34 | 42,290.23 | 1,478,666.57 | 395,523.03 | 361,476.26 |
| 6. OFFICE EQUIPMENT | 15.00 | 22,799,746.58 | 546,834.00 | - | 23,346,580.58 | 19,692,361.77 | 530,410.77 | 20,222,772.54 | 3,123,808.04 | 3,107,384.81 |
| 7. COMPUTER PERIPHERALS | 60.00 | 6,702,486.28 | 3,298,296.00 | 42,455.00 | 9,958,327.28 | 6,151,607.36 | 2,072,311.15 | 8,223,918.51 | 1,794,408.77 | 550,878.92 |
| 8. ELECTRIC INSTALLATIONS | | - | - | - | - | - | - | - | - | - |
| 9. LIBRARY BOOKS | 100.00 | 5,565,334.55 | 37,832.00 | - | 5,603,166.55 | 5,542,600.55 | 43,359.50 | 5,585,960.05 | 17,206.50 | 22,734.00 |
| 10. TUBEWELL & W SUPPLY | | - | - | - | - | - | - | - | - | - |
| 11. OTHER FIXED ASSETS | | - | - | - | - | - | - | - | - | - |
| TOTAL OF CURRENT YEAR | | 208,256,025.01 | 3,972,329.00 | 42,455.00 | 212,185,899.01 | 134,238,898.57 | 9,711,949.90 | 143,950,848.47 | 68,235,050.54 | 74,017,126.44 |
| PREVIOUS YEAR | | 207,426,004.01 | 844,921.00 | 14,900.00 | 208,256,025.01 | 125,441,522.06 | 8,797,376.51 | 134,238,898.57 | 74,017,126.44 | 81,984,481.95 |
| B. CAPITAL WORK IN PROGRESS | | - | - | - | - | - | - | - | - | - |

| Annexure - 1 | | |
|--|---------------------|---------------------|
| Staff Advances | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Staff Advances under TIFAC Account</u> | | |
| A) Staff Advances | | |
| Anil Kumar Rai | - | 5,000.00 |
| Sh.Surender Prasad | - | 500.00 |
| Sh.Sushil Kumar Jha | 4,000.00 | 10,000.00 |
| Ms. Mercy Kutty | 1,000.00 | 2,500.00 |
| Sh.Arghya Sardar | - | 5,000.00 |
| Sh.Surender Kumar | - | 9,000.00 |
| Ms. Geeta Nair | 5,000.00 | 500.00 |
| Ms. Poonam Mehta | 5,500.00 | - |
| Ms.Uma Daral | 5,000.00 | 6,000.00 |
| Sh. Bishram Bhakta | 3,500.00 | 9,500.00 |
| Sh.Ravinder Kumar (Manager) | - | 2,000.00 |
| Sh.Sanjay Sundriyal | 6,500.00 | 4,000.00 |
| Sh. Deep Prakash | 4,000.00 | - |
| Sh.Pankaj Sundriyal | 5,000.00 | 7,000.00 |
| Ms. Asha Kumari | 6,000.00 | 11,000.00 |
| Sh.Kunwar Singh | 1,000.00 | - |
| Ms.Padma Manral | - | 4,500.00 |
| Sh.Dilip Kumar | 2,000.00 | 8,000.00 |
| Dr.S.K.Goel | 6,000.00 | - |
| Ms.Jyoti Saklani | 5,500.00 | - |
| Sh.Ravinder Kumar Sundriyal | - | 5,000.00 |
| B) HBA Advance | | |
| Ms. Sangeeta Baksi | 493,800.00 | 544,200.00 |
| Dr.Debabrata Majumdar | 470,000.00 | 530,000.00 |
| Sh.P.R.Basak | 141,000.00 | 213,000.00 |
| C) Car Advance | | |
| Dr.Gautam Goswami | 12,000.00 | 30,000.00 |
| Sh.T.Chandrasekhar | 115,200.00 | 126,000.00 |
| Ms. Achla Khanna | 144,000.00 | 180,000.00 |
| Ms.Sangeeta Baksi | 40,000.00 | 64,000.00 |
| Total (i) | 1,476,000.00 | 1,776,700.00 |

| Annexure - 1 | | |
|--|---------------------|---------------------|
| Staff Advances | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Staff Advances under TIFAC Account</u> | | |
| D) Leave Travel Concessionation | | |
| Sh.T Chandrasekhar | 257,000.00 | - |
| Sh.M.Themaraivelvan | 99,600.00 | - |
| Dr. Neeraj Saxena | 95,738.00 | - |
| Sh.P.R.Basak | - | 114,400.00 |
| Sh.S.Basu | - | 8,500.00 |
| Sh.M. Suresh Babu | - | 53,600.00 |
| E) Tour Advance | | |
| Sh.Sajid Mubashir | 81,042.00 | 81,042.00 |
| Dr. Gautam Goswami | 822.00 | 822.00 |
| F) Scooter Advance | | |
| Sh.Aneesh S | - | 4,500.00 |
| Sh.Bishram Bhakta | 4,000.00 | 10,000.00 |
| Ms. Geeta Nair | 13,000.00 | 25,000.00 |
| Sh.Sushil Kumar Jha | 14,000.00 | 18,800.00 |
| Sh.Ravindra Kumar (Assistant Manager) | - | 22,500.00 |
| Sh.Sanjay Sundriyal | 10,500.00 | 16,500.00 |
| G) Computer Advance | | |
| Ms. Uma Daral | 22,000.00 | - |
| Sh.Mahipal Singh Rawat | 16,000.00 | 22,000.00 |
| Sh.Sanjay Sundriyal | 19,000.00 | - |
| Sh.Suresh Somanchi | 3,000.00 | 15,000.00 |
| Sh.Aneesh S | 9,000.00 | 21,000.00 |
| Sh.Anil Kumar Rai | 11,000.00 | 23,000.00 |
| Sh.Sushil Kumar Jha | 21,500.00 | 27,500.00 |
| Sh. Ravi Dutt | 18,000.00 | 30,000.00 |
| Sh. Surinder Kumar | 21,000.00 | - |
| Ms.Promila Khilnani | 21,000.00 | - |
| Dr.S.K.Goel | 19,950.00 | |
| Sh Deep Prakash | 35,500.00 | 53,500.00 |
| Total (ii) | 792,652.00 | 547,664.00 |
| Total (i) + (ii) | 2,268,652.00 | 2,324,364.00 |

| Annexure –2 | | |
|--|----------------------|----------------------|
| REFUND FROM PROJECTS (TIFAC REGULAR ACCOUNT) | | |
| PARTICULARS | Current Year | Previous Year |
| (A) Home Grown Technology : | | |
| Development of Robots for Manufacturing | 3,000,000.00 | - |
| Eco-Friendly Lac Dye From Shellac Wash Water Effluent | 1,542,093.00 | - |
| Pilot Scale Manufacture of Bio Reactors | 500,000.00 | - |
| Commercialisation of Pelletisation Technology for Biomass & Combustible Waste | - | 224,000.00 |
| Manufacture of Red Mud/Fly Ash Polymer Door Shutters | - | 100,000.00 |
| Flexible Machining Centre | 360,000.00 | 720,000.00 |
| Manufacture of Unsturated Polyester Resin | 250,000.00 | 250,000.00 |
| Manufacturing of Jute Coir Gromaterials | - | 9,000,000.00 |
| Sub Total (A) | 5,652,093.00 | 10,294,000.00 |
| (B) Advanced Composites Programme | | |
| Development of Energy Efficient Azial Flow FRP Fans | 1,680,694.00 | 2,873,004.00 |
| Development of Composite Artificial Limbs for Physically Handicapped | 2,837,320.00 | - |
| Development of Composite Sky Bus Coaches | - | 500,000.00 |
| High Speed Planing Type Composite Boats | - | 1,804,800.00 |
| Development of Composite Optical Fiber Cable | - | 1,500,000.00 |
| Development of Filament Wound Pipes & Pipe Fitting for oil & Gas Sector | 1,024,000.00 | 3,072,000.00 |
| FRP Bracket Assembly for Railways Electric Traction | 1,977,216.00 | 1,977,216.00 |
| Development of Filament Wound Venturi Scrubber along with the Accessories | 600,000.00 | 1,290,000.00 |
| Sub Total (B) | 8,119,230.00 | 13,017,020.00 |
| (C) Tepp Project | | |
| Reconfigurable Autonomous Air Vihicle | - | 49,185.00 |
| Sub Total (D) | - | 49,185.00 |
| (D) Fly Ash Utilization Programme | | |
| Bulk Production of Fly Ash Bricks | 10,000.00 | 10,000.00 |
| Sub Total (E) | 10,000.00 | 10,000.00 |
| (E) REFUND FROM PROJECT TECHNOLOGY VISION 2020 | | |
| Processing & Export of Loin & Steak of Yellow Fin Tuna | 333,096.12 | 666,192.24 |
| Car : Electromagnetic Forming | 22,170,435.00 | - |
| Car : Low Cost Flexible Automation (LCFA) | 4,829,699.00 | - |
| Bio Transformation of Meso Cyclopents 14 Diacetate to 4-Rhydrozycyclopent -ENE-1-(S) Acetate | 1,848,000.00 | 924,000.00 |
| Functional Test for Evaluating the Performance of Cricket Bat | 23,816.00 | - |
| Process Development Semi Solid Forming & Spueeze Casting Aluminium Alloy Components for Automobile | - | 1,875,687.00 |
| Enzymatic Conversion of Reemic Molecules to Obtain stercopecific Active Pheamaculical | 4,200,000.00 | 4,200,000.00 |
| Sub Total (F) | 33,405,046.12 | 7,665,879.24 |
| Total (A) + (B) + (C) + (D)+ (E) + (F) | 47,186,369.12 | 31,036,084.24 |

Annexure 3

Establishment Expenditure (TIFAC Regular)

| PARTICULARS | Current Year | Previous Year |
|---|---------------|---------------|
| a) Salaries | 44,621,542.00 | 38,839,823.00 |
| Salary - Consolidated | 6,001,845.00 | 4,068,960.00 |
| Ad-hoc Bonus | 120,890.00 | 113,982.00 |
| b) TIFAC Contribution to New Pension Scheme | 293,798.00 | 238,407.00 |
| c) TIFAC Contribution to Provident Fund | 1,698,872.00 | 1,615,910.00 |
| d) Others (Specify) | | |
| Hospitalisation Expenses | 1,016,280.00 | 2,696,130.00 |
| Honorarium | 37,500.00 | 92,000.00 |
| Medical Expenses | 1,581,672.00 | 1,427,700.00 |
| Leave Travel Concession | 949,515.00 | 850,449.00 |
| Gratuity | 1,000,000.00 | 947,683.00 |
| Leave Encashment | 684,970.00 | 1,403,605.00 |
| Leave Salary and Pension Contribution | 97,462.00 | - |
| Tuition Fee | 961,848.00 | 773,904.00 |
| Total | 59,066,194.00 | 53,068,553.00 |

| Annexure 4 | | |
|---|----------------------|----------------------|
| Administrative Expenses (TIFAC Regular) | | |
| PARTICULARS | Current Year | Previous Year |
| Repair and Maintenance | 1,177,335.00 | 879,403.00 |
| Rent, Rates and Taxes | 398,800.00 | 490,100.00 |
| Car hire Charges | 2,392,740.00 | 1,836,217.00 |
| Postage, Telephone and Communication Charges | 1,704,838.00 | 1,645,377.00 |
| Printing, Stationary & Printing of Publications | 1,960,981.00 | 1,174,925.00 |
| Travelling and Conveyance Expenses | 327,860.00 | 355,838.00 |
| Subscription Expenses | 142,282.87 | 168,497.00 |
| Auditors Remuneration | | |
| (a) Audit Fee | 69,115.00 | 62,832.00 |
| (b) Service Tax | 9,676.00 | 7,766.00 |
| Manpower Assessment Study of TIFAC | 125,000.00 | 250,000.00 |
| Advertisement and Publicity | 719,602.00 | 2,141,591.00 |
| Others (Specify) | | |
| Bank Charges | 2,987.81 | 10,461.76 |
| Misc. Office Expenses | 2,724,987.00 | 2,327,961.00 |
| Membership Fee | 79,453.00 | 84,417.00 |
| Maintenance of Vishwakarma Bhavan | 3,205,845.00 | 12,289,329.00 |
| Stamp Duty for Government Treasury | 261,000.00 | - |
| Legal Charges | 1,422,453.00 | 1,345,899.00 |
| WAITRO Membership | 28,000.00 | 52,682.00 |
| Rajabhasha Committee Meeting | 146,768.00 | 123,020.00 |
| Court Fee | 35,000.00 | 87,500.00 |
| Housekeeping of TIFAC Building | 895,710.00 | 891,802.00 |
| Total | 17,830,433.68 | 26,225,617.76 |

| Annexure-5 | | |
|--|----------------------|----------------------|
| PROJECT EXPENSES (TIFAC Regular Account) | | |
| PARTICULARS | Current Year | Previous Year |
| (a) Follow-Up Action/Special Initiatives | | |
| Determinants and Impact of FDI in R&D in creation & Deffusion of Knowlegge in Automobile Industires | 132,000.00 | - |
| Centre for Global or Local for Global Examination of FDI in R&D Centre | 48,872.00 | - |
| Impact of FDI in R&D on Indian Production and R&S Systems | 261,410.00 | - |
| Initiating Technology Road Map Exercise for Indian Aluminium Sector | 100,000.00 | 300,000.00 |
| Industry - Academia Interaction Programme | 124,000.00 | - |
| Study : Relationship Between GDP Growth and Technology Causes in Different Districts of Select Indian | 350,000.00 | 1,050,000.00 |
| Study on Technology Foresight on Solar PV | 1,514,627.00 | 1,898,600.00 |
| Sub-Total (a) | 2,530,909.00 | 3,248,600.00 |
| (b) IIASA - TIFAC Projects/Study/Membership Fee | | |
| IIASA - TIFAC joint Workshop (TIFAC) | 1,057,904.00 | 1,442,256.00 |
| India - IIASA MemberShip Fee | 29,006,538.43 | 24,795,399.00 |
| TIFAC-IIASA on chaning land use & Environmental Implicatins under the emerging economic climatic seenario | - | 130,407.00 |
| IIASA-TIFAC : Climate Change Adaptation Approachs for Sustainable Livelihood With IRMA. | 2,500,000.00 | 2,000,000.00 |
| India-IIASA Study on Evaluation of Soil Nutrient Budgets at Field Farm and Regional Leel in Humid Tropics | 1,957,342.00 | 1,500,000.00 |
| IIASA-TIFAC : Conservation of Agro-Biodiversity and Ecosystem Management : A Study in Indian Agrilclimatic Condition | 2,000,000.00 | - |
| IIASA-TIFAC workshop on Demographic Computations Series - II Titled Multistate Population Mode | 283,525.00 | - |
| TIFAC-IIASA Study on Integrated Hydrology Climate Change and Integrated Water Resources Management | 1,681,547.00 | 1,500,000.00 |
| TIFAC-IIASA-JU Workshop on Accounting for Ecosystem Services : Therapy and Practice | 362,173.00 | - |
| TIFAC-IIASA Study on Development & Application of Gains-City Model for Indian Cities with Neeri Mumbai | - | 2,000,000.00 |
| TIFAC - IIASA Study : Analyzing Forest Carbon Accounts for Sustainable Policy Opt. Special Ref. Livelihood | - | 536,191.00 |
| IIASA - TIFAC Support for Indian YSSP Participation for 2011 at IIASA. Lazenburg | 661,643.77 | - |
| Sub-Total (b) | 39,510,673.20 | 33,904,253.00 |
| (c) HOME GROWN TECHNOLOGIES | | |
| Project related expenses | 69,448.00 | 61,905.00 |
| Sub-Total (c) | 69,448.00 | 61,905.00 |
| (d) TePP PROJECTS | | |
| TePP Expenditure | - | 31,345.00 |
| Sub-Total (d) | - | 31,345.00 |

| Annexure-5 | | |
|--|---------------------|---------------------|
| PROJECT EXPENSES (TIFAC Regular Account) | | |
| PARTICULARS | Current Year | Previous Year |
| (e) Technology Refinement Marketing Programme (TREMAP) | | |
| TREMAP Expenditure | 1,363.00 | 284,082.00 |
| TREMAP TCFA at VIT-TBI, Vellore | 450,000.00 | 750,000.00 |
| TREMAP TCFA at MSRSAS, Bangalore | 322,750.00 | 1,096,784.00 |
| TREMAP : National Awards to Commercializable Patents | - | 4,000,000.00 |
| TREMAP : Mulit Crop Seed Cum Fertilizer Drill | 80,000.00 | - |
| TREMAP at IT-BHU, Varanasi | 368,750.00 | 1,233,374.00 |
| TREMAP : TCFA at Techno Park - Technology Business Incubator, Trivandrum | - | 334,821.00 |
| TREMAP : Study at TCFA at CTE Udaipur, Rajasthan | - | 497,593.00 |
| TREMAP : TCFA at EDC, NCL Innovation Park, Pune | 444,820.00 | 745,070.00 |
| TREMAP : Plasma Expressor Manually operated Top & Bottom | - | 72,000.00 |
| TREMAP : Automatic Cashew Decorticating Machine | 55,000.00 | - |
| TREMAP : Suraksha : LPG and Gas Detection Device wigh SMS Alert | 66,928.00 | - |
| TREMAP : Improved Wownowing Fan | 10,000.00 | - |
| TREMAP : Door Bolt System | 18,543.00 | - |
| TREMAP : Segmental Interlocking Bolt a New Implant System for Fracture Neck of Femur | 22,500.00 | - |
| Sub-Total (e) | 1,840,654.00 | 9,013,724.00 |

| Annexure-5 | | |
|--|---------------|---------------|
| PROJECT EXPENSES (TIFAC Regular Account) | | |
| PARTICULARS | Current Year | Previous Year |
| (f) Revolving Fund (SIDBI) | | |
| Earmarked fund to be released to SIDBI | - | 30,000,000.00 |
| Sub-Total (f) | - | 30,000,000.00 |
| (g) Technology Foresight for Automative Research | | |
| Technology Foresight for Automative Research (TFAR) | 173,198.00 | - |
| Sub-Total (g) | 173,198.00 | - |
| (h) Technology Foresight Study in Security Technology | | |
| Security Technologies : Natural Resources / Enviornment Security | 1,200,000.00 | - |
| Sub-Total (h) | 1,200,000.00 | - |
| (i) Project Related Expenditure | | |
| Exhibition/Workshop International | 25,000.00 | 45,000.00 |
| Meeting Expenditure (Project Related) | 1,105,877.00 | 1,815,354.00 |
| Meeting Expenditure | 292,893.00 | 598,354.00 |
| Travel Abroad | 1,118,933.00 | 287,910.00 |
| Travel Expenditure (Project Expenditure) | 3,803,783.00 | 3,331,280.00 |
| Workshop Expenditure | 637,811.00 | 1,391,770.65 |
| Sub-Total (i) | 6,984,297.00 | 7,469,668.65 |
| Total (a) to (i) | 52,309,179.20 | 83,729,495.65 |

| Annexure -6 | | |
|--|----------------------|----------------------|
| EXPENDITURE OF VISION 2020 | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Establishment & Administrative Expenditure</u> | | |
| Misc Office Expenses | 19,059.00 | 9,698.00 |
| Periodical & Magazine Charges | 6,392.00 | 387.00 |
| Hospitalisation Expenses | - | 325,645.00 |
| Printing Charges | - | 27,400.00 |
| Repair and Maintenance | 18,871.00 | 23,846.00 |
| Telephone & Internet Charges | 53,607.00 | - |
| Conveyance | 13,187.00 | - |
| Ad-hoc Bonus | 34,540.00 | 34,540.00 |
| Employers Contribution CPF | 526,716.00 | 494,230.00 |
| Encashment of Leave | 39,245.00 | - |
| Medical Reimbursement | 496,449.00 | 471,530.00 |
| Salary | 13,052,694.00 | 11,953,251.00 |
| Salary - Consolidated | 36,000.00 | - |
| Leave Travel Concession | 349,428.00 | 337,944.00 |
| Honorarium | 1,500.00 | - |
| Hospitalisation Expenses | 337,194.00 | - |
| Tuition Fee | 300,245.00 | 238,623.00 |
| Leave Encashment | 6,554.00 | 17,809.00 |
| Legal Charges | 39,200.00 | 23,334.00 |
| Total | 15,330,881.00 | 13,958,237.00 |

| Annexure – 6A | | |
|--|----------------------|---------------------|
| PROJECT EXPENDITURE OF VISION 2020 | | |
| PARTICULARS | Current Year | Previous Year |
| (a) Agriculture Sector | | |
| Agriculture, Quality mode Production in Rice -Wheat Cropping System Through Farmers, Bhu, Varanasi | 107,744.00 | - |
| On Farm Demonstration, Commercial Cultivation of Trichoderma as bio pesticide & growth Promoter | 88,128.00 | - |
| Sub-Total (a) | 195,872.00 | - |
| Annexure – 6A | | |
| PROJECT EXPENDITURE OF VISION 2020 | | |
| PARTICULARS | Current Year | Previous Year |
| (b) Targeted Programme in Other Important Area | | |
| Technology Gap Analysis study for the Printing Cluster in Mysore | 500,000.00 | - |
| CAR : Demonstration of the Competence to develop Automobile Components using Electro Magnetic Formign(EMF) | 54,543.00 | 324,000.00 |
| CAR : Ultracapacitor for electric and Hybrid Electric Vehicles | 1,451,215.00 | - |
| Centre for Biofuels (Phase II) | 7,300,000.00 | - |
| Technology Gap Analysis study in production/Manufacturing Processes as well as Environment Aspects of Readymade Garments | 180,000.00 | - |
| Prospects of Fashion Designing and Product Development and Diversification | 300,000.00 | - |
| R&D Centre for Howrah | - | 3,345,766.00 |
| Development of Enzymatic Process for producing Slevioside from Stevia Leaves & Lycopena from Tometoo | - | 475,000.00 |
| Technology Gap Analysis Study in Pr | - | 270,000.00 |
| Technology Status Gap Analysis Study | - | 150,000.00 |
| Technology Gap Analysis Study for Surgical Instruments Manufacturing Unit Cluster for Baruipar | 400,000.00 | - |
| MSME Internship Scheme Stakeholder Iteration Meeting | 25,000.00 | - |
| TIFAC-MSME Internship Scheme with M.S.Ramaiah University of Applied Science | 370,000.00 | - |
| TIFAC-MSME Internship Scheme with VIT, Vellore | 345,600.00 | - |
| TIFAC-MSME Internship Scheme with PSG College of Technology, Coimbatore | 345,600.00 | - |
| TIFAC-MSME Internship Scheme with Pimpri Chinchwad College of Engineering, Pune | 353,675.00 | - |
| Sub-Total (b) | 11,625,633.00 | 4,564,766.00 |

| Annexure – 6A | | |
|---|----------------------|---------------------|
| PROJECT EXPENDITURE OF VISION 2020 | | |
| - | Current Year | Previous Year |
| (d) Project Related Expenditure | | |
| Meeting Expenditure (Project Related) | 27,009.00 | 23,537.00 |
| Travelling Expenditure (Project Related) | 1,768,901.00 | 1,855,305.00 |
| Workshop Expenditure | 1,798,338.00 | 469,000.00 |
| Traveling on Workshop and Others etc | - | 193,894.00 |
| Meeting Expenditure | - | 75,993.00 |
| Sub-Total (d) | 3,594,248.00 | 2,617,729.00 |
| TOTAL (a) to (d) | 15,415,753.00 | 7,182,495.00 |
| Annexure -7 | | |
| Technology Vision 2035 | | |
| PARTICULARS | Current Year | Previous Year |
| Expenditure : | | |
| Brainstroming Meeting Vision 2035 | 709,470.00 | 1,310,207.00 |
| Misc Office Expenses | 9,400.00 | 5,072.00 |
| Printing Charges | 281,537.00 | 3,077.00 |
| Salary-Consolidated | 271,548.00 | |
| Honorarium | 552,500.00 | 353,500.00 |
| Project Related Expenditure | | |
| Meeting Expenditure (Project Expenditure) | 60,480.00 | 520,112.00 |
| Meeting Expenditure | 148,357.00 | 300,354.00 |
| Travelling (Project Expenditure) | 820,653.00 | 1,537,969.00 |
| Workshop Expenditure | 20,000.00 | 14,000.00 |
| Travelling Expenditure | - | - |
| Total | 2,873,945.00 | 4,044,291.00 |

| Annexure - 8 | | |
|---|---------------------|---------------------|
| Patent Facilitating Centre | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Income Under PFC New Account</u> | | |
| Other Income | | |
| Ekaswa CD ROM A B & C | 12,473.00 | 14,000.00 |
| RTIA Question | 10.00 | - |
| Publications | 5,000.00 | - |
| | 17,483.00 | 14,000.00 |
| Annexure - 9 | | |
| Patent Facilitating Centre | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Expenditure under PFC New Account</u> | | |
| Establishment Expenditure | | |
| Salary | 4,878,035.00 | 4,923,333.00 |
| Salary Consolidated | 1,766,511.00 | 1,847,159.00 |
| Adhoc Bonus | 6,908.00 | 10,362.00 |
| Gratuity | 549,195.00 | |
| Leave Encashment | 367,093.00 | 39,864.00 |
| Leave Travel Concession | 90,630.00 | 90,668.00 |
| Hospitalization Expenses | 118,955.00 | 28,279.00 |
| Medical Reimbursement | 79,338.00 | 86,022.00 |
| PFC Contribution to Provident Fund | 222,909.00 | 190,475.00 |
| Tuition Fee | 100,500.00 | 86,035.00 |
| Sub Total (A) | 8,180,074.00 | 7,302,197.00 |

| | | |
|---|----------------------|----------------------|
| Administrative Expenditure | | |
| Advertisement Expenses | | 527,455.00 |
| Bank Charges | 473.90 | 347.00 |
| Filing Of Patent | 5,096,793.00 | 4,225,298.00 |
| Legalisation of Documents | 105,850.00 | |
| PFC Membership (STN) | 61,420.69 | |
| Misc. Office Expenses | 66,880.00 | 51,699.00 |
| Periodical & Magazines | 1,441.00 | 1,466.00 |
| Printing of Publication | 14,750.00 | |
| Printing Charges | 300.00 | |
| Repair & Maintenance | 31,001.00 | 32,725.00 |
| Telephone & Telex | 108,424.00 | 72,424.00 |
| Stationary | 517.00 | 504.00 |
| Car Hire Charges | - | 26,672.00 |
| Conveyance | 3,428.00 | 12,311.00 |
| Sub Total (B) | 5,491,278.59 | 4,950,901.00 |
| TOTAL A +B | 13,671,352.59 | 12,253,098.00 |
| Annexure - 10 | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Expenditure under PFC New Account</u> | | |
| Travelling Expenses | 135,908.00 | 207,816.00 |
| Honorarium for Experts | | 36,000.00 |
| Travel Abroad | 45,932.00 | |
| Meeting Expenses | 2,520.00 | 4,970.00 |
| Workshop Expenditure | 203,784.00 | 297,612.00 |
| Total | 388,144.00 | 546,398.00 |

| Annexure-11 | | |
|---|-----------------------|-----------------------|
| SHORT TERM DEPOSITS WITH BANKS | | |
| PARTICULARS | Current Year | Previous Year |
| Short Term Deposits | | |
| TIFAC | 185,500,000.00 | 155,500,000.00 |
| Accrued Interest | 43,965,571.00 | 27,224,214.00 |
| Total | 229,465,571.00 | 182,724,214.00 |
| Annexure – 12 | | |
| EXPENSES PAYABLE | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Expenses Payables Under TIFAC</u> | | |
| Salary Payable | 4,690,571.00 | 4,015,692.00 |
| M/s DHL International | - | 3,310.00 |
| M/s Universal Solutions | 16,637.00 | - |
| M/s Sarathi Enterprises | 14,420.00 | - |
| M/s Asha Enterprises Pvt. Ltd. | 72,520.00 | - |
| M/s Sarat Tours and Travels | 105,921.00 | - |
| M/s Director, New Delhi HPO, Delhi | 6,488.00 | - |
| M/s Airtel Relationship No.10954184 | 50,445.00 | - |
| M/s. MTNL | 26,577.00 | 27,241.00 |
| M/s Anil Bhatla & Company | 78,791.00 | 70,598.00 |
| M/s Pink House Keeping | - | 73,818.00 |
| M/s Balmer Lawrie & Co. Ltd, New Delhi | 112,901.00 | 619,808.00 |
| M/s Mittal File Manufacturing Company, New Delhi | - | 14,175.00 |
| M/s Kendriya Bhandar, New Delhi | 98,201.00 | 74,616.00 |
| M/s Dogra Enterprises, New Delhi | 21,382.00 | 12,835.00 |
| M/s Gurusons Communications Private Limited | - | 16,175.00 |
| M/s Bagga Tours & Travels | 71,647.00 | 246,128.00 |
| SubTotal (A) | 5,366,501.00 | 5,174,396.00 |
| <u>Expenses Payables Under TIFAC Account</u> | | |
| Education Cess | 782.00 | 606.00 |
| Income Tax | 506,925.00 | 484,145.00 |
| Sub Total (B) | 507,707.00 | 484,751.00 |
| Total (A) + (B) | 5,874,208.00 | 5,659,147.00 |

| Annexure – 12 | | |
|--|---------------------|---------------------|
| EXPENSES PAYABLE | | |
| PARTICULARS | Current Year | Previous Year |
| <u>Expenses Payables Under PFC New Account</u> | | |
| M/s L.S.Davar & Co. | | - |
| M/s Anand & Anand | 55,900.00 | |
| M/s K&S Partners | 35,820.00 | |
| M/s Subramaniam Natraj & Associates | 9,320.00 | 45,625.00 |
| M/s Lakshmi Kumaran & Sridharan | 561,445.00 | 254,878.00 |
| M/s R.K.Dewan & Co. | 75,380.00 | 14,700.00 |
| M/s Fox Mandal & Associates | 102,037.00 | - |
| M/s Anjan Sen & Associates | 341,841.00 | - |
| M/s Mohan Associates | | 21,378.00 |
| M/s S.Majumdar & Co. | 63,085.00 | 282,507.00 |
| M/s Lall Lahiri & Salhotra | 42,990.00 | - |
| M/s Balmer & Lawrie | | 10,084.00 |
| M/s Dogra Enterprises | 4,950.00 | 2,310.00 |
| M/s Gurusons Communications Pvt Ltd | 2,889.00 | 3,666.00 |
| MTNL | | 1,124.00 |
| M/s World Wide News India | | - |
| Salary Payable | 464,911.00 | 531,664.00 |
| Sub Total (A) | 1,760,568.00 | 1,167,936.00 |
| PARTICULARS | Current Year | Previous Year |
| <u>Expenses Payables Under PFC New Account</u> | | |
| Income Tax (Salary) | 53,634.00 | 55,566.00 |
| Income Tax | 102,310.00 | 76,489.00 |
| Education Cess (Salary) | 1,610.00 | 1,667.00 |
| Education Cess | | - |
| Sub Total (B) | 157,554.00 | 133,722.00 |
| Total A+B | 1,918,122.00 | 1,301,658.00 |
| PARTICULARS | Current Year | Previous Year |
| <u>Expenses Payables Under SFWS New Account</u> | | |
| Salary Payable | 74,570.00 | 66,272.00 |
| Scholarship for Women | | 202,293.00 |
| Overheads Payable | 104,064.00 | 104,064.00 |
| Sub Total (A) | 178,634.00 | 372,629.00 |
| Total A+B | 178,634.00 | 372,629.00 |

| Annexure 13 | | |
|--|---------------------|---------------------|
| Earnest Money from Sugar Factories | | |
| PARTICULARS | Current Year | Previous Year |
| Earnest Money: Sakthi Sugars 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 : 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 |
| 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 |
| Total | 3,300,000.00 | 3,500,000.00 |

| Trial Balance as on 31.01.2015 | | | |
|--------------------------------|---|--------------|----------------|
| Code | Particulars | Debit Amount | Credit Amount |
| GA0017 | Advance : LTC Sh.T Chandrasekhar | 257,000.00 | |
| GA0033 | Advance Franking Machine | 14,473.00 | |
| GA0038 | Advance : Tour Dr.Gautam Goswami | 822.00 | |
| GA0072 | Advertisement Expenses | 719,602.00 | |
| GA0073 | Audit Fee | 78,791.00 | |
| GA0092 | Advance : LTC M Thamarai Selvan | 99,600.00 | |
| GA0130 | Advance Tour: Sh. Sajid Mubashir | 81,042.00 | |
| GA0149 | Advance : DAVP | 199,333.00 | |
| GA0164 | Advance : LTC Dr.Neeraj Saxena | 95,738.00 | |
| GA0243 | ACP Refund : Development of Filament Wound Pipes & Pip Fitting for Oil & Gas Sector | | 1,024,000.00 |
| GA0245 | ACP Refund : Development of Filament Wound Venturi Scrubber Along With the Accessories | | 600,000.00 |
| GA0272 | ACP Refund : FRP Bracket Assembly for Railways Electric Traction | | 1,977,216.00 |
| GA0278 | AD-HOC Bonus | 120,890.00 | |
| GA0305 | Advance : Acharya Vinoba Bhawe Rural Hospital. Sawangi | 20,000.00 | |
| GA0324 | Security Deposite : Sh.Kapil Aggarwal | 100,000.00 | |
| GB0001 | Bank Charges | 2,987.81 | |
| GC0001 | Conveyance | 327,860.00 | |
| GC0002 | Capital Fund | | 312,597,540.31 |
| GC0003 | Car Hire Charges | 2,392,740.00 | |
| GC0007 | Cash | 6,574.00 | |
| GC0013 | Computer/Peripherals | 1,734,408.77 | |
| GC0024 | Computer Advance : Uma Daral | 22,000.00 | |
| GC0030 | Car Advance : Sh.Gautam Goswami | 12,000.00 | |
| GC0039 | Computer Advance : Dr.S.K.Goel | 19,950.00 | |
| GC0043 | Centre for Global or Local for Global and Ezamination of FDI in R&D Centre | 48,872.00 | |
| GC0047 | Car Advance : Sh.T.Chandrasekhar | 115,200.00 | |
| GC0049 | Car Advance : Sangeeta Bakshi | 40,000.00 | |
| GC0055 | Construction of Cabins at TIFAC Building | 1,020,332.32 | |
| GC0058 | Court Fee | 35,000.00 | |
| GC0060 | Computer Advance : Sh.Mahipal Singh Rawat | 16,000.00 | |
| GC0064 | Computer Advance : Sh.Sanjay Sundriyal | 19,000.00 | |
| GC0064 | Computer Advance : Sh. Suresh Somanchi | 3,000.00 | |
| GC0066 | Computer Advance : ShDeep Prakash | 35,500.00 | |
| GC0067 | Computer Advance : Sh.Aneesh S | 9,000.00 | |
| GC0068 | Computer Advance : Sh.Anil Kumar Rai | 11,000.00 | |
| GC0069 | Computer Advance : Sh.Sushil Kumar Jha | 21,500.00 | |
| GC0071 | Computer Advance : Sh.Ravi Dutt | 18,000.00 | |
| GC0072 | Car Advance : Ms. Ms.Achala Khanna | 144,000.00 | |
| GC0074 | Computer Advance : Sh.Surinder Kumar | 21,000.00 | |
| GC0075 | Computer Advance : Ms. Promila Khilnani | 21,000.00 | |
| GC0076 | CAR Refund Electromagnetic Forming | | 22,170,435.00 |
| GC0077 | CAR Refund Low Cost Flexible Automation (LCFA) | | 4,829,699.00 |
| GC0078 | Contignecy (Prepration of Directory of Assistive Devices for persons with Disabilities under SIPDA Scheme | | 35,603.00 |
| GD0022 | Depreciation Account | 9,711,949.90 | |
| GD0037 | Determinants and Impact of FDI in R&D in Creation and Diffusion of Knowledge in Automobile Industry | 132,000.00 | |
| GE0009 | Employer's Conribution CPF | 1,698,872.00 | |
| GE0012 | Education Cess | | 782.00 |
| GE0017 | Earthquake-Surving Nature's Fury (Opening Balance) | | 165,157.00 |
| GE0019 | Encashment of Leave | 245,949.00 | |
| GE0026 | Earnest Money : M/s Nimbus Harbour Pvt Ltd | | 20,000.00 |
| GE0027 | Enhancing Capacity for Natural Innovation Project (Grant) | | 1,339,747.93 |
| GE0032 | Earnest Money : M/s Sakthi Sugars Ltd | | 100,000.00 |
| GE0033 | Earnest Money : M/s Pratappur Sugar Industry Ltd | | 100,000.00 |
| GE0035 | Earnest Money : M/s L.H.Sugar | | 100,000.00 |
| GE0037 | Earnest Money : M/s Jind Coop-Sugar | | 100,000.00 |
| GE0038 | Earnest Money : M/s Vishnu Sugar Ltd | | 100,000.00 |
| GE0039 | Earnest Money : M/s DSM Sugar | | 100,000.00 |
| GE0040 | Earnest Money : M/s Valsad Sugar | | 100,000.00 |
| GE0041 | Earnest Money : M/s Budhewal Co op | | 100,000.00 |
| GE0042 | Earnest Money : M/s Palwal Sugar Ltd | | 100,000.00 |
| GE0043 | Earnest Money : M/s Godawari Sugar Mills | | 100,000.00 |
| GE0044 | Earnest Money : M/s Padamashri Dr.Vithalrao Vikho Patil SSK Ltd | | 100,000.00 |
| GE0045 | Earnest Money : M/s Mawana Sugar | | 100,000.00 |
| GE0046 | Earnest Money : M/s EID Parry, Pugalur | | 100,000.00 |

| | | | |
|--------|---|---------------|---------------|
| GE0047 | Earnest Money : M/s Vishwas Rau Naik SSK Ltd | | 100,000.00 |
| GE0048 | Earnest Money : M/s Terna SSK Ltd | | 100,000.00 |
| GE0049 | Earnest Money : M/s Shakumbani Sugar | | 100,000.00 |
| GE0050 | Earnest Money : Shri Talabu Taluk SKM | | 100,000.00 |
| GE0051 | Earnest Money : M/s Bileshwar Kurad Udyog Khedut Sahakari Mandal Ltd | | 100,000.00 |
| GE0053 | Earnest Money : M/s Rahuri S.S.K Ltd | | 100,000.00 |
| GE0054 | Earnest Money : Ashok SSK Ltd | | 100,000.00 |
| GE0055 | Earnest Money : M/s Simbhaoli Sugar | | 300,000.00 |
| GE0056 | Earnest Money : M/s Jagadamba SSK | | 100,000.00 |
| GE0057 | Earnest Money : M/s Rana Sugar Ltd | | 100,000.00 |
| GE0058 | Earnest Money : M/s Dharani Sugar & Chemical Ltd | | 100,000.00 |
| GE0059 | Earnest Money : M/s Bharat Sugar Ltd | | 100,000.00 |
| GE0060 | Earnest Money : M/s Triveni Engg. Industries Ltd | | 200,000.00 |
| GE0061 | Earnest Money : M/s Uttam Sugar Ltd | | 100,000.00 |
| GE0062 | Earnest Money : M/s Chamundeswari Sugar Mill | | 200,000.00 |
| GE0063 | Earnest Money : M/s Mansurpur Sugar Mills | | 100,000.00 |
| GE0072 | Employers Subscription (NPS) | 293,798.00 | |
| GE0073 | Earnest Money : M/s Pink Houskeeping | | 18,784.00 |
| GE0074 | Earnest Money : M/s Dogra Enterprises | | 5000.00 |
| GE0075 | Earnest Money : M/s Bagga Tours and Travels | | 50000.00 |
| GE0076 | Earnest Money : M/s Dip Technologies Pvt. Ltd | | 5000.00 |
| GE0077 | Earnest Money : M/s Perfect Traders | | 5000.00 |
| GE0078 | Earnest Money : M/s Asha Enterprises Pvt Ltd. | | 50000.00 |
| GE0080 | Earnest Money : M/s Sarat Tours and Travels | | 50000.00 |
| GF0001 | Furniture | 395,523.03 | |
| GF0041 | MPSEB use of Fly Ash in Agriculture Development Thermal Power Platn, Sarni (Grant) | | 356,825.00 |
| GF0045 | Fire Alarm System (TIFAC Building) | 395,542.96 | |
| GF0046 | FACP Refund : Bulk Production of Fly Ash Bricks | | 10,000.00 |
| GF0047 | Fire Extinguishers (TIFAC Building) | 43,817.58 | |
| GG0001 | Grant In Aid (Plan) | | 26,870,000.00 |
| GG0002 | Grant In Aid (Non Plan) | | 338,000.00 |
| GG0006 | Grant in Aid (ICOSER) | | 13,202,152.00 |
| GG0020 | Gratuity | 1,000,000.00 | |
| GG0022 | Grant : FAM Large Scale Stowing of HWP (M) Pond Ash into the underground Mines of SCCL (M) (Manuguru) | | 8,294,830.00 |
| GG0024 | Grant : MSEB-Ash Utilisation / Management | | 600,094.00 |
| GG0030 | Grant in Aid : DROD-PFC (Opening Balance) | | 395,745.00 |
| GG0033 | Grant in Aid : (Plan) Capital Assets | | 2,667,000.00 |
| GG0034 | Grant in Aid : Salary | | 32,892,000.00 |
| GG0035 | Grant in Aid : Salary (Scheduled Castes) | | 8,000,000.00 |
| GG0036 | G.M.W Workshop (SRF) | | 100,170.00 |
| GH0001 | Honorarium | 37,500.00 | |
| GH0003 | Home Grown Technology | 69,448.00 | |
| GH0083 | HGT Refund : Developmentof Robots for Manufacturing. | | 3,000,000.00 |
| GH0105 | HGT Refund : Eco-Friendly Lac Dye from Shellac Wash water Effluent | | 1,542,093.00 |
| GH0109 | HGT Refund : Pilot Scale Manufacture of Bio-Reactors | | 500,000.00 |
| GH0113 | HGT Refund : Flexible Machining Centre | | 360,000.00 |
| GH0129 | H.B.A : Shri P.R.Basak | 141,000.00 | |
| GH0133 | Housekeeping of TIFAC Building | 895,710.00 | |
| GH0136 | H.B.A : Ms.Sangeeta Baksi | 493,800.00 | |
| GH0137 | HGT Refund : Manufacture of Unsaturated Polyester Resin | | 250,000.00 |
| GH0138 | H.B.A : Dr.D.Majumdar | 470,000.00 | |
| GH0139 | Hospitalisation Expenses | 1,016,280.00 | |
| GI0001 | Interest (TIFAC) | | 16,741,357.00 |
| GI0007 | Interest (Long Term Advance) (TIFAC) | | 9,119.00 |
| GI0009 | Income Tax | | 93,509.00 |
| GI0016 | Indian-Mayanmar Science and Technology Friendship Library in Yangoon | | 959,659.00 |
| GI0026 | Interest (Savings Bank) TIFAC | | 2,605,572.00 |
| GI0037 | Interior Work of TIFAC Building (Civil/Electrical) | 22,921,968.45 | |
| GI0053 | India -IIASA Joint Workshop | 1,057,904.00 | |
| GI0054 | Interest (Scooter Advance) | | 2,723.00 |
| GI0056 | Interest : Car Advance (TIFAC) | | 22,388.00 |
| GI0059 | Interest : Leave Travel Concession (TIFAC) | | 42.00 |
| GI0060 | Impact of FDI in R&D on Indian Production and R&S Systems | 261,410.00 | |
| GI0062 | Indian - IIASA Membership Fee | 29,006,538.43 | |
| GI0067 | Initiating Technology Road Map Exercise for Indian Aluminium Sector | 100,000.00 | |
| GI0070 | IIASA-TIFAC :Support for Indian YSSP Participants for IIASA. Laxenburg | 661,643.77 | |
| GI0071 | Income Tax (Payable) | | 413,416.00 |
| GI0074 | IIASA-TIFAC :Climate Change Adaptation Approaches for Sustainable Livelihoods with IRMA. Anand | 2,500,000.00 | |

| | | | |
|--------|---|----------------|--------------|
| GI0075 | India-IIASA Study on Evaluation of Soil Nutrient Budget at Field, Farm and Regional Level in Humid Tropics | 1,957,342.00 | |
| GI0077 | IIT-TIFAC Maintenance (Provision) | | 8,057,470.00 |
| GI0078 | Industry - Academia Interaction Programme | 124,000.00 | |
| GI0079 | IIASA-TIFAC : Conservation of Agro-Biodiversity and Ecosystem Management : A study in Indian Agroclimatic condition | 2,000,000.00 | |
| GI0080 | IIASA - TIFAC workshop on Demographic Computations Series - II Titled Multistate Population Projection mode | 283,525.00 | |
| GI0081 | International Conference on Disaster Managment | 44,493.00 | |
| GL0008 | LTA : Advance Sh.Sushil Kumar Jha | 4,000.00 | |
| GL0011 | LTA : Advance Ms. Mercy Kutty | 1,000.00 | |
| GL0018 | Library Book | 17,206.50 | |
| GL0019 | Leave Travel Concession | 949,515.00 | |
| GL0020 | Land & Building | 36,982,578.74 | |
| GL0021 | Leave Salary & Pension Contribution | 97,462.00 | |
| GL0029 | LTA : Advance Ms.Geeta Nair | 5,000.00 | |
| GL0032 | LTA : Advance Ms. Poonam Mehta | 5,500.00 | |
| GL0034 | Legal Charges | 1,422,453.00 | |
| GL0054 | LTA Advance Ms. Uma Daral | 5,000.00 | |
| GL0055 | LTA Advance : Sh.Sanjay Sundriyal | 6,500.00 | |
| GL0059 | LTA Advance : Sh.Deep Prakash | 4,000.00 | |
| GL0062 | Leave Encashment | 439,021.00 | |
| GL0063 | LTA: Advance Sh. Pankaj Kumar Sundriyal | 5,000.00 | |
| GL0064 | LTA : Advance Ms. Asha Kumari | 6,000.00 | |
| GL0066 | LTA Advance : Sh.Kunwar Singh | 1,000.00 | |
| GL0069 | LTA : Advance Sh.Bishram Bhakta | 3,500.00 | |
| GL0073 | LTA : Advance Sh.Dalip Kumar | 2,000.00 | |
| GL0075 | LTA Advance : Dr. S.K.Goel | 6,000.00 | |
| GL0079 | LTA Advance : Ms. Jyoti Saklani | 5,500.00 | |
| GM0001 | Medical Reimbursement | 1,581,672.00 | |
| GM0003 | Meeting Expenses | 292,893.00 | |
| GM0004 | Misc Office Expenses | 2,724,987.00 | |
| GM0021 | M.T.N.L | | 26,577.00 |
| GM0042 | Maintenance of TIFAC IIT-Delhi Building | 3,205,845.00 | |
| GM0058 | Meeting (Proj. Related) | 1,105,877.00 | |
| GM0073 | Medical Scheme | | 1,654,617.00 |
| GM0122 | M/s Universal Solution | | 16,637.00 |
| GM0160 | M/s Balmar Lawrie & Co. Ltd, New Delhi | | 112,901.00 |
| GM0189 | M/S Sarathi Enterprises, New Delhi | | 14,420.00 |
| GM0219 | M/s Anil Bhatla & Company | | 78,791.00 |
| GM0230 | M/s Kendriya Bhandar, New Delhi | | 98,201.00 |
| GM0237 | Manpower Assessment Study of TIFAC | 125,000.00 | |
| GM0240 | M/s Dogra Enterprises, New Delhi | | 21,382.00 |
| GM0244 | M/s Bagga Tours and Travels | | 71,647.00 |
| GM0247 | M/s Asha Enterprises Pvt. Ltd. | | 72,520.00 |
| GM0259 | M/s Sarat Tours & Travels (P) Ltd. | | 105,921.00 |
| GM0264 | M/s Director New Delhi HPO, New Delhi | | 6,488.00 |
| GM0265 | M/s Airtel Relationship No.10954184 | | 50,445.00 |
| GN0001 | Nominal Charges for Dissemination of TIFAC Report | | 48,378.00 |
| GO0001 | Office Equipment | 3,123,808.04 | |
| GO0002 | Other Receipts (TIFAC) | | 5,988.00 |
| GO0017 | Overhead (Preparation of Directory of Assistive Devices for Persons with Disabilities under SIPDA Scheme) | | 149,533.00 |
| GP0001 | Postage / Courier Services | 145,523.00 | |
| GP0002 | Printing Of Publications | 66,132.00 | |
| GP0003 | Printing Charges | 450,334.00 | |
| GP0004 | Periodical & Magazine | 142,282.87 | |
| GP0045 | Preparation of Detailed Project Report & Design of R&D Schedul for Launch of National Mission Electric Mobility | 1,008,322.00 | |
| GP0046 | Preparation of Directory of Assisive Devices for Persons with Disabilities under SIPDA Scheme 2014-2015 | | 1,071,806.00 |
| GR0001 | Repair & Maintenance | 1,177,335.00 | |
| GR0002 | Rent | 398,800.00 | |
| GR0006 | Development of Energy Efficient Axial Flow FRP Fans | | 1,680,694.00 |
| GR0011 | Refund : Development of Composite Artificial Limbs for Physically Handicapped | | 2,837,320.00 |
| GR0020 | RITA Question | | 460.00 |
| GR0022 | Rajabhasha Committee Meeting | 146,768.00 | |
| GS0009 | Security Deposit : Lease Accomodation | 9,500.00 | |
| GS0017 | Security Deposit : MTNL | 22,937.00 | |
| GS0019 | Short Term Deposit : TIFAC | 229,465,571.00 | |
| GS0026 | SAIL NMPP | 19,736.55 | |
| GS0028 | Stationery | 1,444,515.00 | |
| GS0029 | Salary | 44,621,542.00 | |
| GS0032 | Salary Payable (Prof. Ganapathy) | | 1,800.00 |
| GS0093 | Security Deposite : M/s Tata Tele Service Ltd | 16,000.00 | |
| GS0102 | Salary Payable | | 4,690,571.00 |
| GS0158 | Salary Consolidated | 6,001,845.00 | |
| GS0164 | Scooter Advance : Sh.Sanjay Sundriyal | 10,500.00 | |
| GS0191 | Sundry Debtor : DST (IITF) | 270,000.00 | |
| GS0200 | Security Deposite : DST (IITF) | 74,520.00 | |
| GS0201 | Scooter Advance : Sh.Bishram Bhakta | 4,000.00 | |
| GS0209 | Sh.Kapil Aggarwal (Rent) | 25,650.00 | |
| GS0211 | Study : Relationship Between GDP Growth and Technology Causes in Different Districts of Select Indian | 350,000.00 | |

| | | | |
|--------|---|-----------------------|-----------------------|
| GS0212 | Scooter Advance : Ms. Geeta Nair | 13,000.00 | |
| GS0214 | Scooter Advance : Sh.Sushil Kumar Jha | 14,000.00 | |
| GS0216 | Study on Technology Foresight on Solar PV. | 1,514,627.00 | |
| GS0219 | Stamp Duty for Government Treasury | 261,000.00 | |
| GS0220 | Sundry Creditor : CGHS (Sh.Rajani Kanth Gupta) Ex. Registrar | | 2,550.00 |
| GS0221 | Security Deposit : UBI Locker Rent | 8,403.00 | |
| GS0222 | Security Technologies : Natural Resources / Environment Security | 1,200,000.00 | |
| GS0223 | Sundry Debtor : PFC | 5,000,000.00 | |
| GS0224 | Security Deposite : Mrs. Veena Bhandari | 80,000.00 | |
| GS0225 | Sundry Creditor : : Permal Wallace Pvt. Ltd. | | 3,000.00 |
| GS0226 | Stale Cheque (Income) | | 2,380,570.06 |
| GT0004 | Telephone/Internet Charges | 1,559,315.00 | |
| GT0006 | Travel Abroad | 1,118,933.00 | |
| GT0007 | TIFAC Membership | 79,453.00 | |
| GT0075 | Tuition Fee | 961,848.00 | |
| GT0169 | Travelling (Project Related) | 3,803,783.00 | |
| GT0178 | Tender for Car Hiring | | 3,000.00 |
| GT0231 | Tender : Housekeeping at TIFAC | | 2,000.00 |
| GT0261 | TIFAC Building Maintenance | 1,599,864.15 | |
| GT0265 | Technology Refinement Marketing Programme (TREMAM) | 1,363.00 | |
| GT0272 | TREMAM Study : TREMAP TCFA at VIT-TBI, Vellore | 450,000.00 | |
| GT0273 | TREMAM Study : TREMAP TCFA at MSRSAS, Bangalore | 322,750.00 | |
| GT0276 | TREMAM Study : TCFA At IT - BHU, Varanasi | 368,750.00 | |
| GT0283 | TREMAM : Automatic Cashew Decorticating Machine | 55,000.00 | |
| GT0287 | Training Programme on IPR and WTO Issues for Scientists/Technologists working in Govt. Sector | | 202,549.00 |
| GT0301 | TREMAM : Multi Crop Seed Cum Fertilizer Drill | 80,000.00 | |
| GT0314 | TREMAM Study : TCFA At EDC. NCL Innovation Park, Pune | 444,820.00 | |
| GT0322 | TREMAM : Suraksha : LPG and Gas Detection Device With SMS Alart | 66,928.00 | |
| GT0327 | TREMAM : Improved Wonnowing Fan | 10,000.00 | |
| GT0332 | TREMAM : Door Bolt System | 18,543.00 | |
| GT0333 | TREMAM : Segmental Interlocking Bolt a New Implant System for Fracture Neck of Femur | 22,500.00 | |
| GT0337 | TIFAC - IIASA Study on Integrated Hydrology Climate hange and Integrated water Resources Management | 1,681,547.00 | |
| GT0345 | TIFAC/DST ITS Canada Workshop | 167,640.00 | |
| GT0346 | TIFAC-IIASA-JU Workshop on Accounting for Ecosystem Services : Therapy and Practice | 362,173.00 | |
| GT0347 | Technology Foresight for Automative Research (TFAR) | 173,198.00 | |
| GT0353 | TDS (Indian Oil Corporation Limited) | 61,346.00 | |
| GU0001 | Union Bank of India | 18,687,269.55 | |
| GV0146 | V2020 Refund : Processing & Export of Loin & Steak of Yellow Fin Tuna | | 333,096.12 |
| GV0156 | V2020 : Refund enzymatic conversion of Recemic Molecules to obtain stereopecific active Pheamaculical | | 4,200,000.00 |
| GV0165 | V2020 Refund : Bio Transformation of Meso Cyclopents 14-Diacetate to 4-R Hydrozycyclopent-Ene-1-(S) Acetate | | 1,848,000.00 |
| GV0186 | V2020 Refund : Functional Test for Evaluating the Proformance of Cricket Bat | | 23,816.00 |
| GW0001 | Exhibitin/Workshop Intenational | 25,000.00 | |
| GW0002 | Workshop Expenses | 637,811.00 | |
| GW0004 | WAITRO Membership | 28,000.00 | |
| V2020 | Vision 2020 | 18,925,129.00 | |
| V2035 | Vision 2035 | 2,873,945.00 | |
| VAGRI | Vision 2020 : Agriculture Sector | 195,872.00 | |
| VITARG | Vision 2020 : Targetted Programme in Other Important Area | 11,625,633.00 | |
| | | 498,343,806.42 | 498,343,806.42 |

Vision 2020 Trial Balance as on 31.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|---------|------------------------------|----------------------|---------------|
| GA0278 | Ad-hoc Bonus | 34,540.00 | |
| GC0001 | Conveyance | 13,187.00 | |
| GE0009 | Employers Contribution CPF | 526,716.00 | |
| GE0019 | Encashment of Leave | 39,245.00 | |
| GH0001 | Honorarium | 1,500.00 | |
| GH00139 | Hospitalisation Expenses | 337,194.00 | |
| GL0019 | Leave Travel Concession | 349,428.00 | |
| GL0034 | Legal Charges | 39,200.00 | |
| GL0062 | Leave Encashment | 6,554.00 | |
| GM0001 | Medical Reimbursement | 496,449.00 | |
| GM0004 | Misc Office Expenses | 19,059.00 | |
| GM0058 | Meeting (Project Related) | 27,009.00 | |
| GP0004 | Periodical & Magazine | 6,392.00 | |
| GR0001 | Repair and Maintenance | 18,871.00 | |
| GS0029 | Salary | 13,052,694.00 | |
| GS0158 | Salary - Consolidated | 36,000.00 | |
| GT0004 | Telephone / Internet Charges | 53,607.00 | |
| GT0075 | Tuition Fee | 300,245.00 | |
| GT0169 | Travelling (Project Related) | 1,768,901.00 | |
| GW0002 | Workshop Expenses | 1,798,338.00 | |
| | | 18,925,129.00 | 0.00 |

Vision 2020 Agriculture Sector Trial Balance as on 31.03.2013

| Code | Particulars | Debit Amount | Credit Amount |
|--------|---------------------------------------|-------------------|---------------|
| GV0117 | V2020 : Agriculture, Quality Mode | 107,744.00 | |
| GV0127 | V2020 : On Farm Demonstration and Com | 88,128.00 | |
| | | 195,872.00 | 0.00 |

Vision 2020 Targetted Programme in other Important Area Trial Balance as on 30.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|--------|---|----------------------|---------------|
| GC0038 | CAR : Demonstration of The Competence | 54,543.00 | |
| GC0041 | CAR : Ultracapacitor for Electric and | 1,451,215.00 | |
| GM0252 | MSME Internship Scheme Stakeholder | 25,000.00 | |
| GT0348 | TIFAC-MSME Internship Scheme with | 370,000.00 | |
| GT0350 | TIFAC-MSME Internship Scheme with | 345,600.00 | |
| GT0351 | TIFAC-MSME Internship Scheme with | 345,600.00 | |
| GR0352 | TIFAC-MSME Internship Scheme with | 353,675.00 | |
| GV0170 | V2020 : Tech Gap Analysis Study in PR | 180,000.00 | |
| GV0171 | V2020 : Technology Gap Analysis Study | 400,000.00 | |
| GV0185 | V2020 : Centre for Biofuels (Phase -II) | 7,300,000.00 | |
| GV0187 | V2020 Prospects of Fashion Design | 300,000.00 | |
| GV0188 | V2020 : Technology Gap Analysis Study | 500,000.00 | |
| | | 11,625,633.00 | |

Vision 2035 Trial Balance as on 31.03.2013

| Code | Particulars | Debit Amount | Credit Amount |
|--------|-----------------------------------|---------------------|---------------|
| GB0011 | Brainstorming Meetign Vision 2035 | 709,470.00 | |
| GH0001 | Honorarium | 552,500.00 | |
| GM0003 | Meeting Expenses | 148,357.00 | 0.00 |
| GM0004 | Misc Office Expenses | 9,400.00 | |
| GM0058 | Meeting (Project Related) | 60,480.00 | 0.00 |
| GP0003 | Printing Charges | 281,537.00 | |
| GS0158 | Salary - Consolidated | 271,548.00 | |
| GT0169 | Travelling (Project Related) | 820,653.00 | 0.00 |
| GW0002 | Workshop Expenses | 20,000.00 | 0.00 |
| | | 2,873,945.00 | 0.00 |

| Technology Information Forecasting & Assessment Council | | | |
|--|---|----------------|----------------|
| Receipts & Payments for the Period the Year Ended 31.03.2015 | | | |
| | <u>Receipts</u> | Current Year | Previous Year |
| 1 | <u>Opening Balances</u> | | |
| | Cash in hand | 6,195.00 | 3,677.00 |
| | Cash in Hand (Under PFC New Account) | 520.00 | 439.00 |
| | Cash in Hand (Under WSSS New Account) | 2,020.00 | 5,839.00 |
| | Bank balances | - | - |
| | In Current Accounts | - | - |
| | In Deposit Accounts | 182,724,214.00 | 144,088,555.00 |
| | Savings Accounts | 105,375,926.31 | 171,766,782.83 |
| | Savings Accounts (Under PFC New Account) | 13,406,683.84 | 10,887,788.32 |
| | Savings Accounts (Under WSSS New Account) | 8,836,067.00 | 2,148,598.00 |
| | Advance for Franking Machine | 677.00 | 1,108.00 |
| 2 | <u>Grants Received</u> | | |
| | From Government of India - Plan (TIFAC) | 70,429,000.00 | 81,247,000.00 |
| | From Government of India - Non Plan (TIFAC) | 338,000.00 | 375,000.00 |
| 3 | <u>Interest Received</u> | | |
| | On Bank Deposits (TIFAC) | 16,855,491.00 | 13,635,659.00 |
| | On Bank Savings (TIFAC) | 2,605,572.00 | 5,230,404.00 |
| | Loans Advances etc. (Staff advances) | 34,272.00 | 43,447.00 |
| | Interest from Income Tax | | 13,143.00 |
| 4 | <u>Other Income (Specify)</u> | | |
| | Refund from HGT Project | 5,652,093.00 | 10,294,000.00 |
| | Refund from Advance Composite Programme | 8,119,230.00 | 13,017,020.00 |
| | Refund from Vision 2020 | 33,405,046.12 | 7,665,879.24 |
| | Other Income (Annexure 18) | 2,574,394.06 | 320,951.00 |
| | Refund from TePP Project | - | 49,185.00 |
| | Refund from Fly Ash Utilization Programme | 10,000.00 | 10,000.00 |
| 5 | <u>Receipts fro Patent Facilitating Centre</u> | | |
| | Grant in Aid (Under PFC New Account) | - | 15,000,000.00 |
| | Ekaswa A&B CD RoM (Under PFC New Account) | 17,483.00 | 14,000.00 |
| | Interest from Bank (Savings) (Under PFC New Account) | 279,638.00 | 387,908.00 |
| | Interest from Advances etc. (Staff Advane) (Under PFC New Account) | 10,248.00 | 3,385.00 |
| 6 | <u>Receipts for Women Scientist Scholourship Scheme</u> | | |
| | Grant in Aid (Under WSSS New Account) | - | 22,000,000.00 |
| | Interest from Bank (Savings) (Under WSSS New Account) | 401,111.00 | 121,480.00 |
| | Interest from Advances etc. (Staff Advane) (Under WSSS New Account) | - | 184.00 |
| 7 | <u>Other Receits (Give Details)</u> | | |
| | Nominal Charges for Dissemination of TIFAC Reports | 48,378.00 | 77,634.00 |
| | Tender for Housekeeping at TIFAC | 2,000.00 | - |
| | RTIA Questions | 460.00 | 3,024.00 |
| | Tender for Car Hiring | 3,000.00 | 2,000.00 |
| | Tender for Laptops | - | 5,000.00 |

| | | |
|--|----------------|----------------|
| Tender for Supply of Drinking Water | - | 1,500.00 |
| Tender for Digitalization of TIFAC Reports | - | 6,500.00 |
| Stale Cheque Received | - | 86,567.00 |
| Advance : DAVP | 43,179.00 | 41,554.00 |
| Sundry Creditor : M/s Blue Star Ltd | - | 169,274.00 |
| G.M.W Workshop (SRF) | - | 216,578.00 |
| Preparation of Detailed Project Report & Design of R&D Schedule for Launch of National Mission Electric Mobility | - | 547,907.00 |
| Earnest Money : M/s Dogra Enterprises | - | 5,000.00 |
| Earnest Money : M/s Bagga Tours and Travels | - | 50,000.00 |
| Earnest Money : M/s Dip Technologies Pvt. Ltd | - | 5,000.00 |
| Earnest Money : M/s Perfect Traders | - | 5,000.00 |
| Office Equipment (Deductions during the year) | 42,455.00 | 14,900.00 |
| Advance : Indian Habitat Center | - | 2,018.65 |
| Security Deposit : MTNL | - | 6,000.00 |
| Earmarked for Release to SIDBI (Revolving Fund) Capital Fund | 40,000,000.00 | 30,000,000.00 |
| Staff Loan (Under TIFAC Account) | 55,712.00 | - |
| Staff Loan (Under PFC Account) | 19,500.00 | - |
| | 491,298,565.33 | 529,576,889.04 |

Technology Information Forecasting & Assessment Council
Receipts & Payments for the Period the Year Ended 31.03.2015

| <u>Receipts</u> | Current Year | Previous Year |
|--|-----------------------|-----------------------|
| Security Deposit : MTNL | 3,000.00 | 6,000.00 |
| Interest Accrued (Under PFC New Account) | 77,888.00 | - |
| Interest Accrued (Under WSSS New Account) | 21,624.00 | - |
| TDS :CPF (FDR) UBI, SDA | - | 321,591.00 |
| TDS (FDR) Sarita Vihar, New Delhi | - | 19,726.00 |
| CGHS (Sh.Rajani Kanth Gupta) Ex. Registrar | - | 2,550.00 |
| Sundry Creditor : Permali Wallace Pvt Ltd | 3,000.00 | - |
| Sundry Creditor : Patent Facilitating Centre | 5,000,000.00 | - |
| Interest Accrued from Unin Bank of India (Under PFC New Account) | - | 77,888.52 |
| Interest Accrued from Unin Bank of India (Under WSSS New Account) | - | 21,624.00 |
| Medical Scheme | 231,150.00 | 230,917.00 |
| Medical Scheme (Under PFC New Account) | 19,827.00 | 22,200.00 |
| Preparation of Directory of Assistive Devices for Persons with Disabilities under SIPDA Scheme 2014-2015 | 1,071,806.00 | - |
| Earnest Money : M/s Asha Enterprises | 50,000.00 | - |
| Earnest Money : M/s Sarat Tours & Travels | 50,000.00 | - |
| Leave Travel Expenses Payable (Sh.Shambhu Kumar) | - | 2,720.00 |
| Sh.Shambhu Kumar (HBA) (PFC New Account) | - | 8,000.00 |
| Staff Advance (PFC New Account) | - | 26,000.00 |
| Staff Advance (WSSS Account) | - | 4,000.00 |
| CPF | 26,000.00 | - |
| CPF (Under PFC New Account) | 1,488.00 | 35,000.00 |
| Leave Encashment Receivable Sh.Shambhu Kumar (Under PFC New Account) | - | 10,721.00 |
| Total (ii) | 6,555,783.00 | 788,937.52 |
| Total (i) + (ii)=(A) | 497,854,348.33 | 530,365,826.56 |

| Technology Information Forecasting & Assessment Council | | | | |
|--|--|---------------|-----------------------|-----------------------|
| Receipts & Payments for the Period the Year Ended 31.03.2015 | | | | |
| | <u>Payments</u> | | Current Year | Previous Year |
| 1 | Expenses | | | |
| a | Establishment Expenses (Schedule 21) | 58,936,194.00 | | 53,068,553.00 |
| | Add : Opening Expenses Payable | 3,311,041.00 | | 3,111,193.00 |
| | Less : Expenses Payable | 4,145,441.00 | 58,101,794.00 | 3,311,041.00 |
| | | | | 52,868,705.00 |
| b | Administrative Expenses (Schedule 21) | | | 26,225,617.76 |
| | Add : Opening Expenses Payable | 14,544,115.68 | | 2,174,996.00 |
| | Add : Loss of sale of Fixed Assets | 1,208,382.00 | | - |
| | Less : Payables | 697,313.00 | 15,055,184.68 | 1,208,382.00 |
| | 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) | | 92,309,179.20 | 83,729,495.65 |
| 2 | Payments made against funds for various projects | | | |
| | Grant Utilisation - Patent Facilitating Centre | | | |
| | Add : Opening Expenses Payable | | | |
| | Less : Expenses Payable | | | |
| | Establishment Expenses (Under PFC New Account) | 8,180,074.00 | | 7,302,197.00 |
| | Add : Opening Expenses Payable | 588,897.00 | | 420,189.00 |
| | Less : Expenses Payable | 520,155.00 | 8,248,816.00 | 588,897.00 |
| | | | | 7,133,489.00 |
| | Administrative Expenses (Under PFC New Account) | 5,879,422.59 | | 5,497,299.00 |
| | Add : Opening Expenses Payable | 712,761.00 | | 1,048,231.00 |
| | Less : Expenses Payable | 1,397,967.00 | 5,194,216.59 | 712,761.00 |
| | | | | 5,832,769.00 |
| | Payments made against funds for various projects | | | |
| | Grant Utilisation - Women Scientist Scholarship Scheme | | | |
| | Add : Opening Expenses Payable | | | |
| | Less : Expenses Payable | | | |
| | Establishment Expenses (Under WSSS New Account) | 941,765.00 | | 13,152,951.00 |
| | Add : Opening Expenses Payable | 268,565.00 | | 1,000,704.00 |
| | Less : Expenses Payable | 74,570.00 | 1,135,760.00 | 268,565.00 |
| | | | | 13,885,090.00 |
| | Administrative Expenses (Under WSSS New Account) | 593,268.00 | | 1,507,230.00 |
| | Add : Opening Expenses Payable | 104,064.00 | | 153,758.00 |
| | Less : Expenses Payable | 104,064.00 | 593,268.00 | 104,064.00 |
| | | | | 1,556,924.00 |
| | Grant Utilisation - Vision 2020 | 30,746,634.00 | | 21,140,732.00 |
| | Add : Opening Expenses Payable | 1,139,724.00 | | 975,627.00 |
| | Less : Expenses Payable | 952,663.00 | 30,933,695.00 | 1,139,724.00 |
| | | | | 20,976,635.00 |
| | Grant Utilisation - Technology Vision 2035 | | 2,873,945.00 | 4,044,291.00 |
| | Addition in Fixed Assets | | | |
| | Office Equipment | | 546,834.00 | 73,270.00 |
| | Library Book | | 37,832.00 | 51,559.00 |
| | Furniture & Fixtures | | 76,337.00 | 5,000.00 |
| | Computer & Peripherals | | 3,298,296.00 | 666,866.00 |
| | Fire Alarm System at TIFAC Building & Fire Extinguishers | | 13,030.00 | |
| 3 | Other Payments (Specify) | | | |
| | CPF | | 35,000.00 | 294,991.00 |
| | CPF (Under PFC Account) | | 346.00 | 24,700.00 |
| | Sundry Creditor : M/s Daikin Airconditioning India Pvt. Ltd | | | 152,527.00 |
| | Sundry Creditor : M/s Blue Star Ltd. | | 169,274.00 | 165,956.00 |
| | Patent Facilitating Centre | | | 6,000.00 |
| | Sundry Creditor : Unique Interiors, New Delhi | | | 191,075.00 |
| | Sundry Creditor : India International Centre | | | 325,854.00 |
| | Earnest Money from Sugra Factories (Annex 13) (M/s Riga Sugar) | | | 100,000.00 |
| | Earnest Money : M/s Sansanwal Travels | | | 50,000.00 |
| | Earnest Money : M/s Yartika Travels | | | 50,000.00 |
| | Stale Cheque | | 2,365,446.06 | |
| | M/s Sonu Printing Press | | | - |
| | Earnest Money : M/s Sansanwal Travels | | | - |
| | Earnest Money : M/s Yatrika Travels | | | - |
| | Leave Encashment Receivable (Shambhu Kumar) (Under PFC New Account) | | | - |
| | Staff Advance (Under TIFAC) | | | 158,656.00 |
| | Total (i) | | 220,988,253.53 | 219,536,084.41 |

| Trial Balance as on 31.03.2014 | | | |
|--------------------------------|--|--------------|----------------|
| Code | Particulars | Debit Amount | Credit Amount |
| GA0023 | Advance : LTC Sh.P.R.Basak | 114,400.00 | |
| GA0033 | Advance Franking Machine | 677.00 | |
| GA0038 | Advance : Tour Dr.Gautam Goswami | 822.00 | |
| GA0053 | Advance : LTC Sh.S.Basu | 8,500.00 | |
| GA0072 | Advertisement Expenses | 2,141,591.00 | |
| GA0073 | Audit Fee | 58,922.00 | |
| GA0109 | Advance : LTC Sh. M.Suresh Babu | 53,600.00 | |
| GA0130 | Advance Tour: Sh. Sajid Mubashir | 81,042.00 | |
| GA0149 | Advance : DAVP | 43,179.00 | |
| GA0168 | ACP Refund : Development of Composite Sky Bus Coaches | | 500,000.00 |
| GA0240 | ACP Refund : High Speed Planing Type Composite Boats | | 1,804,800.00 |
| GA0243 | ACP Refund : Development of Filament Wound Pipes & Pip Fitting for Oil & Gas Sector | | 3,072,000.00 |
| GA0245 | ACP Refund : Development of Filament Wound Venturi Scrubber Along With the Accessories | | 1,290,000.00 |
| GA0272 | ACP Refund : FRP Bracket Assembly for Railways Electric Traction | | 1,977,216.00 |
| GA0278 | AD-HOC Bonus | 113,982.00 | |
| GA0296 | ACP Refund : Development of Composite Optical Fiber Cable | | 1,500,000.00 |
| GA0305 | Advance : Acharya Vinoba Bhave Rural Hospital. Sawangi | 150,000.00 | |
| GA0324 | Security Deposit : Sh.Kapil Aggarwal | 100,000.00 | |
| GB0001 | Bank Charges | 10,461.76 | |
| GC0001 | Conveyance | 355,838.00 | |
| GC0002 | Capital Fund | | 347,606,259.99 |
| GC0003 | Car Hire Charges | 1,836,217.00 | |
| GC0007 | Cash | 6,195.00 | |
| GC0013 | Computer/Peripherals | 550,878.92 | |
| GC0030 | Car Advance : Sh.Gautam Goswami | 30,000.00 | |
| GC0047 | Car Advance : Sh.T.Chandrasekhar | 126,000.00 | |
| GC0049 | Car Advance : Sangeeta Bakshi | 64,000.00 | |
| GC0055 | Construction of Cabins at TIFAC Building | 1,133,702.58 | |
| GC0058 | Court Fee | 87,500.00 | |
| GC0060 | Computer Advance : Sh.Mahipal Singh Rawat | 22,000.00 | |
| GC0060 | Computer Advance : Sh. Suresh Somanchi | 15,000.00 | |
| GC0066 | Computer Advance : ShDeep Prakash | 53,500.00 | |
| GC0067 | Computer Advance : Sh.Aneesh S | 21,000.00 | |
| GC0068 | Computer Advance : Sh.Anil Kumar Rai | 23,000.00 | |
| GC0069 | Computer Advance : Sh.Sushil Kumar Jha | 27,500.00 | |
| GC0070 | CAR Refund : Process Development Semi-Solid Forming & Spueeze Castig Aluminium Alloy Components for Automobile | | 1,875,687.00 |
| GC0071 | Computer Advance : Sh.Ravi Dutt | 30,000.00 | |
| GC0072 | Car Advance : Ms. Ms.Achala Khanna | 180,000.00 | |
| GD0022 | Depreciation Account | 8,797,376.51 | |
| GE0009 | Employer's Contribution CPF | 1,615,910.00 | |
| GE0012 | Education Cess | | 606.00 |
| GE0017 | Earthquake-Surving Nature's Fury (Opening Balance) | | 165,157.00 |
| GE0026 | Earnest Money : M/s Nimbus Harbour Pvt Ltd | | 20,000.00 |
| GE0027 | Enhancing Capacity for Natural Innovation Project (Grant) | | 1,339,747.93 |
| GE0032 | Earnest Money : M/s Sakthi Sugars Ltd | | 100,000.00 |
| GE0033 | Earnest Money : M/s Pratappur Sugar Industry Ltd | | 100,000.00 |
| GE0034 | Earnest Money : M/s RBN Sugar Mills | | 100,000.00 |
| GE0035 | Earnest Money : M/s L.H.Sugar | | 100,000.00 |
| GE0037 | Earnest Money : M/s Jind Coop-Sugar | | 100,000.00 |
| GE0038 | Earnest Money : M/s Vishnu Sugar Ltd | | 100,000.00 |
| GE0039 | Earnest Money : M/s DSM Sugar | | 100,000.00 |
| GE0040 | Earnest Money : M/s Valsad Sugar | | 100,000.00 |
| GE0041 | Earnest Money : M/s Budhewal Co op | | 100,000.00 |
| GE0042 | Earnest Money : M/s Palwal Sugar Ltd | | 100,000.00 |

| | | | |
|--------|---|--------------|---------------|
| GE0043 | Earnest Money : M/s Godawari Sugar Mills | | 100,000.00 |
| GE0044 | Earnest Money : M/s Padamashri Dr.Vithalrao Vikho Patil SSK Ltd | | 100,000.00 |
| GE0045 | Earnest Money : M/s Mawana Sugar | | 100,000.00 |
| GE0046 | Earnest Money : M/s EID Parry, Pugalur | | 100,000.00 |
| GE0047 | Earnest Money : M/s Vishwas Rau Naik SSK Ltd | | 100,000.00 |
| GE0048 | Earnest Money : M/s Terna SSK Ltd | | 100,000.00 |
| GE0049 | Earnest Money : M/s Shakumbani Sugar | | 100,000.00 |
| GE0050 | Earnest Money : Shri Talabu Taluk SKM | | 100,000.00 |
| GE0051 | Earnest Money : M/s Bileshwar Kurad Udyog Khedut Sahakari Mandal Ltd | | 100,000.00 |
| GE0052 | Earnest Money : M/s Sanjivani SSK Ltd | | 100,000.00 |
| GE0053 | Earnest Money : M/s Rahuri S.S.K Ltd | | 100,000.00 |
| GE0054 | Earnest Money : Ashok SSK Ltd | | 100,000.00 |
| GE0055 | Earnest Money : M/s Simbhaoli Sugar | | 300,000.00 |
| GE0056 | Earnest Money : M/s Jagadamba SSK | | 100,000.00 |
| GE0057 | Earnest Money : M/s Rana Sugar Ltd | | 100,000.00 |
| GE0058 | Earnest Money : M/s Dharani Sugar & Chemical Ltd | | 100,000.00 |
| GE0059 | Earnest Money : M/s Bharat Sugar Ltd | | 100,000.00 |
| GE0060 | Earnest Money : M/s Triveni Engg. Industries Ltd | | 200,000.00 |
| GE0061 | Earnest Money : M/s Uttam Sugar Ltd | | 100,000.00 |
| GE0062 | Earnest Money : M/s Chamundeswari Sugar Mill | | 200,000.00 |
| GE0063 | Earnest Money : M/s Mansurpur Sugar Mills | | 100,000.00 |
| GE0072 | Employers Subscription (NPS) | 238,407.00 | |
| GE0073 | Earnest Money : M/s Pink Houskeeping | | 18,784.00 |
| GE0074 | Earnest Money : M/s Dogra Enterprises | | 5000.00 |
| GE0075 | Earnest Money : M/s Bagga Tours and Travels | | 50000.00 |
| GE0076 | Earnest Money : M/s Dip Technologies Pvt. Ltd | | 5000.00 |
| GE0077 | Earnest Money : M/s Perfect Traders | | 5000.00 |
| GF0001 | Furniture | 361,476.26 | |
| GF0041 | MPSEB use of Fly Ash in Agriculture Development Thermal Power Platn, Sarni (Grant) | | 356,825.00 |
| GF0045 | Fire Alarm System (TIFAC Building) | 465,344.66 | |
| GF0046 | FACP Refund : Bulk Production of Fly Ash Bricks | | 10,000.00 |
| GF0047 | Fire Extinguishers (TIFAC Building) | 37,370.39 | |
| GG0001 | Grant In Aid (Plan) | | 50,155,000.00 |
| GG0002 | Grant In Aid (Non Plan) | | 375,000.00 |
| GG0006 | Grant in Aid (ICOSER) | | 13,202,152.00 |
| GG0020 | Gratuity | 947,683.00 | |
| GG0022 | Grant : FAM Large Scale Stowing of HWP (M) Pond Ash into the underground Mines of SCCL (M) (Manuguru) | | 8,294,830.00 |
| GG0024 | Grant : MSEB-Ash Utilisation / Management | | 600,094.00 |
| GG0030 | Grant in Aid : DR0D-PFC (Opening Balance) | | 395,745.00 |
| GG0033 | Grant in Aid : (Plan) Capital Assets | | 607,000.00 |
| GG0034 | Grant in Aid : Salary | | 26,214,000.00 |
| GG0035 | Grant in Aid : Salary (Scheduled Castes) | | 4,271,000.00 |
| GG0036 | G.M.W Workshop (SRF) | | 216,578.00 |
| GH0001 | Honorarium | 92,000.00 | |
| GH0003 | Home Grown Technology | 61,905.00 | |
| GH0050 | HGT Refund : Commericalisation of Pelletisation Technology for Biomass & Combustible Waste | | 224,000.00 |
| GH0069 | HGT Refund : MRG. Of Red Mud/Fly Ash Polymer Door Shutters | | 100,000.00 |
| GH0113 | HGT Refund : Flexible Machining Centre | | 720,000.00 |
| GH0129 | H.B.A : Shri P.R.Basak | 213,000.00 | |
| GH0133 | Housekeeping of TIFAC Building | 891,802.00 | |
| GH0136 | H.B.A : Ms.Sangeeta Baksi | 544,200.00 | |
| GH0137 | HGT Refund : Manufacture of Unsaturated Polyester Resin | | 250,000.00 |
| GH0138 | H.B.A : Dr.D.Majumdar | 530,000.00 | |
| GH0139 | Hospitalisation Expenses | 2,696,130.00 | |
| GH0143 | HGT Refund : Manufacturing of Jute Coir Gromaterials | | 9,000,000.00 |
| GI0001 | Interest (TIFAC) | | 13,635,659.00 |
| GI0007 | Interest (Long Term Advance) (TIFAC) | | 9,379.00 |
| GI0009 | Income Tax | | 41,884.00 |
| GI0016 | Indian-Mayanmar Science and Technology Friendship Library in Yangoon | | 959,659.00 |
| GI0026 | Interest (Savings Bank) TIFAC | | 5,230,404.00 |

| | | | |
|--------|---|---------------|---------------|
| GI0037 | Interior Work of TIFAC Building (Civil/Electrical) | 25,468,853.83 | |
| GI0053 | India -IIASA Joint Workshop | 1,442,256.00 | |
| GI0054 | Interest (Scooter Advance) | | 3,330.00 |
| GI0056 | Interest : Car Advance (TIFAC) | | 21,600.00 |
| GI0059 | Interest : Leave Travel Concession (TIFAC) | | 1,575.00 |
| GI0062 | Indian - IIASA Membership Fee | 24,795,399.00 | |
| GI0067 | Initiating Technology Road Map Exercise for Indian Aluminium Sector | 300,000.00 | |
| GI0071 | Income Tax (Payable) | | 442,261.00 |
| GI0073 | Interest : Income Tax | | 13,143.00 |
| GI0074 | IIASA-TIFAC :Climate Change Adaptation Approaches for Sustainable Livelihoods with IRMA. Anand | 2,000,000.00 | |
| GI0075 | India-IIASA Study on Evaluation of Soil Nutrient Budget at Field, Farm and Regional Level in Humid Tropics | 1,500,000.00 | |
| GI0076 | Interest (Tour) | | 7,563.00 |
| GI0077 | IIT-TIFAC Maintenance (Provision) | | 13,140,000.00 |
| GL0006 | LTA : Advance Sh.Anil Kumar Rai | 5,000.00 | |
| GL0007 | LTA : Advance Sh. Surender Prasad | 500.00 | |
| GL0008 | LTA : Advance Sh.Sushil Kumar Jha | 10,000.00 | |
| GL0011 | LTA : Advance Ms. Mercy Kutty | 2,500.00 | |
| GL0015 | LTA : Advance Sh.Arghya Sardar | 5,000.00 | |
| GL0016 | LTA : Advance Padma Manral | 4,500.00 | |
| GL0018 | Library Book | 22,734.00 | |
| GL0019 | Leave Travel Concession | 850,449.00 | |
| GL0020 | Land & Building | 41,091,754.16 | |
| GL0021 | Leave Salary & Pension Contribution | 0.00 | 26,700.00 |
| GL0025 | LTA : Advance Sh.Surinder Kumar | 9,000.00 | |
| GL0029 | LTA : Advance Ms.Geeta Nair | 500.00 | |
| GL0034 | Legal Charges | 1,345,899.00 | |
| GL0054 | LTA L Advance Ms. Uma Daral | 6,000.00 | |
| GL0055 | LTA Advance : Sh.Sanjay Sundriyal | 4,000.00 | |
| GL0062 | Leave Encashment | 1,403,605.00 | |
| GL0063 | LTA: Advance Sh. Pankaj Kumar Sundriyal | 7,000.00 | |
| GL0064 | LTA : Advance Ms. Asha Kumari | 11,000.00 | |
| GL0068 | LTA : Advance Sh.Ravindra Kumar Sundriyal | 5,000.00 | |
| GL0069 | LTA : Advance Sh.Bishram Bhakta | 9,500.00 | |
| GL0072 | LTA : Advance Ravinder Kumar (Manager) | 2,000.00 | |
| GL0073 | LTA : Advance Sh.Dalip Kumar | 8,000.00 | |
| GM0001 | Medical Reimbursement | 1,427,700.00 | |
| GM0003 | Meeting Expenses | 598,354.00 | |
| GM0004 | Misc Office Expenses | 2,327,961.00 | |
| GM0021 | M.T.N.L | | 27,241.00 |
| GM0042 | Maintenance of TIFAC IIT-Delhi Building | 12,289,329.00 | |
| GM0058 | Meeting (Proj. Related) | 1,815,354.00 | |
| GM0073 | Medical Scheme | | 1,423,467.00 |
| GM0093 | M/s DHL International | | 3,310.00 |
| GM0160 | M/s Balmar Lawrie & Co. Ltd, New Delhi | | 619,808.00 |
| GM0193 | M/s Pink House Keeping, New Delhi | | 73,818.00 |
| GM0219 | M/s Anil Bhatla & Company | | 58,922.00 |
| GM0230 | M/s Mittal File Manufacturing Co. New Delhi | | 14,175.00 |
| GM0231 | M/s Kendriya Bhandar, New Delhi | | 74,616.00 |
| GM0237 | Manpower Assessment Study of TIFAC | 250,000.00 | |
| GM0240 | M/s Dogra Enterprises, New Delhi | | 12,835.00 |
| GM0243 | Gurusons Communications Private Limited | | 16,175.00 |
| GM0244 | M/s Bagga Tours and Travels | | 246,128.00 |
| GN0001 | Nominal Charges for Dissemination of TIFAC Report | | 77,634.00 |
| GO0001 | Office Equipment | 3,107,384.81 | |
| GO0002 | Other Receipts (TIFAC) | | 1,700.00 |
| GO0002 | Other Reciepts (TREMAP Unspent Balance refunded : Auto Waste Gear Roller Wall Mount Wet Grinder) | | 190,307.00 |
| GO0018 | Other Receipts (Indian Oil Corporation Ltd.) | 0.00 | 102,244.00 |
| GP0001 | Postage / Courier Services | 153,346.00 | |
| GP0002 | Printing Of Publications | 142,192.00 | |
| GP0003 | Printing Charges | 242,741.00 | |
| GP0004 | Periodical & Magazine | 168,497.00 | |
| GP0045 | Preparation of Detailed Project Report & Design of R&D Schedul for Launch of National Mission Electric Mobility | | 547,907.00 |
| GR0001 | Repair & Maintenance | 879,403.00 | |
| GR0002 | Rent | 490,100.00 | |
| GR0006 | Development of Energy Efficient Axial Flow FRP Fans | | 2,873,004.00 |
| GR0020 | RITA Question | | 3,024.00 |

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|--------|---|-----------------------|-----------------------|
| GR0022 | Rajabhasha Committee Meeting | 123,020.00 | |
| GS0009 | Security Deposit : Lease Accomodation | 9,500.00 | |
| GS0017 | Security Deposit : MTNL | 25,937.00 | |
| GS0019 | Short Term Deposit : TIFAC | 182,724,214.00 | |
| GS0026 | SAIL NMPP | 19,736.55 | |
| GS0027 | Stale Cheque | | 2,365,446.06 |
| GS0028 | Stationery | 789,992.00 | |
| GS0029 | Salary | 38,839,823.00 | |
| GS0032 | Salary Payable (Prof. Ganapathy) | | 1,800.00 |
| GS0093 | Security Deposite : M/s Tata Tele Service Ltd | 16,000.00 | |
| GS0102 | Salary Payable | | 4,015,692.00 |
| GS0158 | Salary Consolidated | 4,068,960.00 | |
| GS0164 | Scooter Advance : Sh.Sanjay Sundriyal | 16,500.00 | |
| GS0176 | Scooter Adv : Aneesh S | 4,500.00 | |
| GS0191 | Sundry Debtor : DST (IITF) | 270,000.00 | |
| GS0193 | Security Deposite : M/s Pink House Keeping | | 71,604.00 |
| GS0200 | Security Deposite : DST (IIIF) | 74,520.00 | |
| GS0201 | Scooter Advance : Sh.Bishram Bhakta | 10,000.00 | |
| GS0204 | Sundry Creditor : M/s Blue Star Ltd | | 169,274.00 |
| GS0211 | Study : Relationship Between GDP Growth and Technology Causes in Different Districts of Select Indian | 1,050,000.00 | |
| GS0212 | Scooter Advance : Ms. Geeta Nair | 25,000.00 | |
| GS0214 | Scooter Advance : Sh.Sushil Kumar Jha | 18,800.00 | |
| GS0215 | Scooter Advance : Sh.Ravindra Kumar (Assistant Manager) | 22,500.00 | |
| GS0216 | Study on Technology Foresight on Solar PV. | 1,898,600.00 | |
| GS0219 | Security Deposite : UBI Locker Rent | 8,403.00 | |
| GS0220 | Sundry Creditor : CGHS (Sh.Rajani Kanth Gupta) Ex. Registrar | | 2,550.00 |
| GT0004 | Telephone/Internet Charges | 1,492,031.00 | |
| GT0006 | Travel Abroad | 287,910.00 | |
| GT0007 | TIFAC Membership | 84,417.00 | |
| GT0075 | Tution Fee | 773,904.00 | |
| GT0154 | TEPP Expenditure | 31,345.00 | |
| GT0169 | Travelling (Project Related) | 3,331,280.00 | |
| GT0178 | Tender for Car Hiring | | 2,000.00 |
| GT0261 | TIFAC Building Maintenance | 1,777,626.83 | |
| GT0265 | Technology Refinement Marketing Programme (TREMAP) | 284,082.00 | |
| GT0272 | TREMAP Study : TREMAP TCFA at VIT-TBI, Vellore | 750,000.00 | |
| GT0273 | TREMAP Study : TREMAP TCFA at MSRSAS, Bangalore | 1,096,784.00 | |
| GT0276 | TREMAP Study : TCFA At IT - BHU, Varanasi | 1,233,374.00 | |
| GT0286 | TIFAC-IIASA Study : Analyzing Forest Carbon Accounts for Sustainable Policy Opt. Special Ref. Livelihood | 536,191.00 | |
| GT0287 | Training Programme on IPR and WTO Issues for Scientists/Technologists working in Govt. Sector | | 202,549.00 |
| GT0292 | TREMAP Study : TREMAP TCFA at Techno Part - Technology Business Incubator Trivandrum | 334,821.00 | |
| GT0295 | TREMAP Study : TREMAP TCFA at CTE Udaipur, Rajasthan | 497,593.00 | |
| GT0310 | TREMAP Study : National Awards to Commercializable Patents | 4,000,000.00 | |
| GT0314 | TREMAP Study : TCFA At EDC. NCL Innovation Park, Pune | 745,070.00 | |
| GT0331 | TIFAC-IIASA on Changing land use & environmental implications under the emerging economic climatic seenar | 130,407.00 | |
| GT0336 | TEPP Refund : Reconfigurable Autonomous Air Vehicle | | 49,185.00 |
| GT0337 | TIFAC-IIASA Study on Integrated Hydrology Climate Change and Integrated Water Resources Management | 1,500,000.00 | |
| GT0340 | TIFAC-IIASA Study on Development & Application of Gain-City Model for Indian Citites with Neeri, Mumbai | 2,000,000.00 | |
| GT0341 | Tender for Laptops | | 5,000.00 |
| GT0342 | Tender for Supply of Drinking Water | | 1,500.00 |
| GT0343 | Tender for Digitalization of TIFAC Reports | | 6,500.00 |
| GT0344 | TREMAP : Plasma Expressor Manually Operated Top & Bottom | 72,000.00 | |
| GT0345 | TIFAC/DST ITS Canada Workshop | 88,732.00 | |
| GT0332 | TDS (Indian Oil Corporation Limited) | 61,346.00 | |
| GU0001 | Union Bank of India | 105,375,926.31 | |
| GV0146 | V2020 Refund : Processing & Export of Loin & Steak of Yellow Fin Tuna | | 666,192.24 |
| GV0156 | V2020 : Refund enzymatic conversion of Recemic Molecules to obtain stereospecific active Pheamaculical | | 4,200,000.00 |
| GV0165 | V2020 Refund : Bio Transformation of Meso Cyclopents 14-Diacetate to 4-R Hydrozycyclopent-Ene-1-(S) Acetate | | 924,000.00 |
| GW0001 | Exhibitin/Workshop Intenational | 45,000.00 | |
| GW0002 | Workshop Expenses | 1,391,770.65 | |
| GW0004 | WAITRO Membership | 52,682.00 | |
| V2020 | Vision 2020 | 16,575,966.00 | |
| V2035 | Vision 2035 | 4,044,291.00 | |
| VITARG | Vision 2020 : Targetted Programme in Other Important Area | 4,564,766.00 | |
| | | 532,310,246.22 | 532,310,246.22 |

Vision 2020 Trial Balance as on 31.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|---------|---------------------------------|----------------------|---------------|
| GA0072 | Advertisement Expenses | | |
| GA0278 | Ad-hoc Bonus | 34,540.00 | 0.00 |
| GC0001 | Conveyance | | 0.00 |
| GC0003 | Car Hire Charges | | 0.00 |
| GC0044 | Children Education Allowance | | 0.00 |
| GE0009 | Employers Contribution CPF | 494,230.00 | 0.00 |
| GE0019 | Encashment of Leave | | 0.00 |
| GH0001 | Honorarium | | 0.00 |
| GH00139 | Hospitalisation Expenses | 325,645.00 | 0.00 |
| GI0068 | Internship | | 0.00 |
| GI0019 | Leave Travel Concession | 337,944.00 | 0.00 |
| GI0034 | Legal Charges | 23,334.00 | 0.00 |
| GI0062 | Leave Encashment | 17,809.00 | 0.00 |
| GM0001 | Medical Reimbursement | 471,530.00 | 0.00 |
| GM0003 | Meeting Expenses | 75,993.00 | 0.00 |
| GM0004 | Misc Office Expenses | 9,698.00 | 0.00 |
| GM0058 | Meeting (Project Related) | 23,537.00 | 0.00 |
| GM0186 | Membership Fee | | 0.00 |
| GP0003 | Printing Charges | 27,400.00 | 0.00 |
| GP0004 | Periodical & Magazine | 387.00 | 0.00 |
| GR0001 | Repair and Maintenance | 23,846.00 | 0.00 |
| GS0029 | Salary | 11,953,251.00 | 0.00 |
| GT0004 | Telephone / Internet Charges | | 0.00 |
| GT0006 | Travel Abroad | | 0.00 |
| GT0075 | Tuition Fee | 238,623.00 | 0.00 |
| GT0169 | Travelling (Project Related) | 1,855,305.00 | 0.00 |
| GT0170 | Travel on Workshop & Others Etc | 193,894.00 | 0.00 |
| GW0002 | Workshop Expenses | 469,000.00 | 0.00 |
| | | 16,575,966.00 | 0.00 |

Vision 2020 Agriculture Sector Trial Balance as on 31.03.2013

| Code | Particulars | Debit Amount | Credit Amount |
|--------|--|--------------|---------------|
| GV0084 | V2020 : Promotion of Medicinal And | | |
| GV0099 | V2020 : Demonstration of Agriculture | | |
| GV0100 | V2020 : Agricultural Diversification | | |
| GV0101 | V2020 : Enhancing Water Productivity | | |
| GV0117 | V2020 : Agriculture, Quality Mode | | |
| GV0118 | V2020 : On Farm Demonstration, Population | | |
| GV0120 | V2020 : Promotion of Medicinal and | | |
| GV0121 | V2020 : Improved Seed Production and | | |
| GV0127 | V2020 : On Farm Demonstration and Com | | |
| GV0132 | V2020 : Transfer of IPM Technology | | |
| GV0133 | V2020 : Enhancement of Farm Income of Farm | | |
| GV0141 | V2020 : Demonstration of Systems Approach | | |
| GV0143 | V2020 : Value Addition of Low Value | | |
| GV0161 | V2020 : Enhancing Incom of Small and | | |
| | | 0.00 | 0.00 |

Vision 2020 Targetted Programme in other Important Area Trial Balance as on 30.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|--------|--|---------------------|---------------|
| GC0038 | CAR : Demonstration of The Competence | 324,000.00 | |
| GV0129 | V 2020 : R&D Centre for Howrah | 3,345,766.00 | |
| GV0168 | V2020 : Tech. Status Gap Analys Study | 150,000.00 | |
| GV0170 | V2020 : Tech. Gap Analysis Study in Pr | 270,000.00 | |
| GV0181 | V2020 : Development of Enzymatic | 475,000.00 | |
| | | 4,564,766.00 | 0.00 |

Vision 2035 Trial Balance as on 31.03.2013

| Code | Particulars | Debit Amount | Credit Amount |
|--------|-----------------------------------|---------------------|---------------|
| GB0011 | Brainstorming Meetign Vision 2035 | 1,310,207.00 | |
| GC0001 | Conveyance | | |
| GH0001 | Honorarium | 353,500.00 | |
| GM0003 | Meeting Expenses | 300,354.00 | 0.00 |
| GM0004 | Misc Office Expenses | 5,072.00 | |
| GM0058 | Meeting (Project Related) | 520,112.00 | 0.00 |
| GP0003 | Printing Charges | 3,077.00 | |
| GS0074 | Stipend | | |
| GT0001 | Travelling Expenses | | |
| GT0169 | Travelling (Project Related) | 1,537,969.00 | 0.00 |
| GW0002 | Workshop Expenses | 14,000.00 | 0.00 |
| GW0007 | Web Portal Service | | 0.00 |
| | | 4,044,291.00 | 0.00 |

Vision 2020 Trial Balance as on 31.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|---------|---------------------------------|----------------------|---------------|
| GA0072 | Advertisement Expenses | | |
| GA0278 | Ad-hoc Bonus | 34,540.00 | 0.00 |
| GC0001 | Conveyance | | 0.00 |
| GC0003 | Car Hire Charges | | 0.00 |
| GC0044 | Children Education Allowance | | 0.00 |
| GE0009 | Employers Contribution CPF | 494,230.00 | 0.00 |
| GE0019 | Encashment of Leave | | 0.00 |
| GH0001 | Honorarium | | 0.00 |
| GH00139 | Hospitalisation Expenses | 325,645.00 | 0.00 |
| GI0068 | Internship | | 0.00 |
| GL0019 | Leave Travel Concession | 337,944.00 | 0.00 |
| GL0034 | Legal Charges | 23,334.00 | 0.00 |
| GL0062 | Leave Encashment | 17,809.00 | 0.00 |
| GM0001 | Medical Reimbursement | 471,530.00 | 0.00 |
| GM0003 | Meeting Expenses | 75,993.00 | 0.00 |
| GM0004 | Misc Office Expenses | 9,698.00 | 0.00 |
| GM0058 | Meeting (Project Related) | 23,537.00 | 0.00 |
| GM0186 | Membership Fee | | 0.00 |
| GP0003 | Printing Charges | 27,400.00 | 0.00 |
| GP0004 | Periodical & Magazine | 387.00 | 0.00 |
| GR0001 | Repair and Maintenance | 23,846.00 | 0.00 |
| GS0029 | Salary | 11,953,251.00 | 0.00 |
| GT0004 | Telephone / Internet Charges | | 0.00 |
| GT0006 | Travel Abroad | | 0.00 |
| GT0075 | Tuition Fee | 238,623.00 | 0.00 |
| GT0169 | Travelling (Project Related) | 1,855,305.00 | 0.00 |
| GT0170 | Travel on Workshop & Others Etc | 193,894.00 | 0.00 |
| GW0002 | Workshop Expenses | 469,000.00 | 0.00 |
| | | 16,575,966.00 | 0.00 |

Vision 2020 Agriculture Sector Trial Balance as on 31.03.2013

| Code | Particulars | Debit Amount | Credit Amount |
|--------|--|--------------|---------------|
| GV0084 | V2020 : Promotion of Medicinal And | | |
| GV0099 | V2020 : Demonstration of Agriculture | | |
| GV0100 | V2020 : Agricultural Diversification | | |
| GV0101 | V2020 : Enhancing Water Productivity | | |
| GV0117 | V2020 : Agriculture, Quality Mode | | |
| GV0118 | V2020 : On Farm Demonstration, Population | | |
| GV0120 | V2020 : Promotion of Medicinal and | | |
| GV0121 | V2020 : Improved Seed Production and | | |
| GV0127 | V2020 : On Farm Demonstration and Com | | |
| GV0132 | V2020 : Transfer of IPM Technology | | |
| GV0133 | V2020 : Enhancement of Farm Income of Farm | | |
| GV0141 | V2020 : Demonstration of Systems Approach | | |
| GV0143 | V2020 : Value Addition of Low Value | | |
| GV0161 | V2020 : Enhancing Income of Small and | | |
| | | 0.00 | 0.00 |

Vision 2020 Targetted Programme in other Important Area Trial Balance as on 30.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|--------|---|---------------------|---------------|
| GC0038 | CAR : Demonstration of The Competence | 324,000.00 | |
| GV0129 | V 2020 : R&D Centre for Howrah | 3,345,766.00 | |
| GV0168 | V2020 : Tech. Status Gap Analysis Study | 150,000.00 | |
| GV0170 | V2020 : Tech. Gap Analysis Study in Pr | 270,000.00 | |
| GV0181 | V2020 : Development of Enzymatic | 475,000.00 | |
| | | 4,564,766.00 | 0.00 |

Vision 2035 Trial Balance as on 31.03.2013

| Code | Particulars | Debit Amount | Credit Amount |
|--------|-----------------------------------|---------------------|---------------|
| GB0011 | Brainstorming Meetign Vision 2035 | 1,310,207.00 | |
| GC0001 | Conveyance | | |
| GH0001 | Honorarium | 353,500.00 | |
| GM0003 | Meeting Expenses | 300,354.00 | 0.00 |
| GM0004 | Misc Office Expenses | 5,072.00 | |
| GM0058 | Meeting (Project Related) | 520,112.00 | 0.00 |
| GP0003 | Printing Charges | 3,077.00 | |
| GS0074 | Stipend | | |
| GT0001 | Travelling Expenses | | |
| GT0169 | Travelling (Project Related) | 1,537,969.00 | 0.00 |
| GW0002 | Workshop Expenses | 14,000.00 | 0.00 |
| GW0007 | Web Portal Service | | 0.00 |
| | | 4,044,291.00 | 0.00 |

Women Scientists Scholarship Scheme Trial Balance as on 31.03.2014

| Code | Particulars | Debit Amount | Credit Amount |
|--------|--|----------------------|----------------------|
| GA0278 | Ad-hoc Bonus | 10,362.00 | |
| GC0007 | Cash | 2,020.00 | |
| GC0008 | Capital Account | | 1025599.00 |
| GG0001 | Grant in Aid | | 22,000,000.00 |
| GI0001 | Interest (Staff Advance) | | 184.00 |
| GI0003 | Interest on Savings Account | | 121,480.00 |
| GI0005 | Interest Accrued | 21,624.00 | |
| GS0001 | SFWS : Scholarship for Women | 12,388,939.00 | |
| GS0002 | SFWS : Computers | 500,000.00 | |
| GS0006 | SFWS : TA/DA for Attending Orientation | 1,231.00 | |
| GS0008 | SFWS Faculty Honorarium and Travel | 36,523.00 | |
| GS0009 | SFWS : Workshop and Training | 689,449.00 | |
| GS0010 | SFWS : Overheads | 280,027.00 | |
| GS0011 | SFWS : Salary of Training Coordinator | 277,360.00 | |
| GS0012 | SFWS : Salary of Training Assistant | 148,356.00 | |
| GS0015 | SFWS : Salary of Accounts Assistant | 180,000.00 | |
| GS0016 | SFWS : Salary of Data Entry Operator | 147,934.00 | |
| GS0017 | Salary Payable | | 66,272.00 |
| GS0018 | SFWS : Scholarship for Women Payable | | 202,293.00 |
| GS0021 | SFWS : Overheads Payable | | 104,064.00 |
| GU0001 | Union Bank of India | 8,836,067.00 | |
| | | 23,519,892.00 | 23,519,892.00 |

| Technology Information Forecasting & Assessment Council | | | |
|--|--|-----------------------|-----------------------|
| Receipts & Payments for the Period the Year Ended 31.03.2014 | | | |
| | | Current Year | Previous Year |
| | Payments | | |
| #### | Expenses | | |
| a | Establishment Expenses (Schedule 21) | | |
| | Add : Opening Expenses Payable | | |
| | Less : Expenses Payable | | |
| | | 52,868,705.00 | 41,989,913.00 |
| b | Administrative Expenses (Schedule 21) | | |
| | Add : Opening Expenses Payable | | |
| | Add : Loss of sale of Fixed Assets | | |
| | Less : Payables | | |
| | 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) | 83,729,495.65 | 88,041,093.00 |
| #### | Payments made against funds for various projects | | |
| | Grant Utilisation - Patent Facilitating Centre | | |
| | Add : Opening Expenses Payable | | |
| | Less : Expenses Payable | | 5,743,824.00 |
| | Establishment Expenses (Under PFC New Account) | 7,302,197.00 | |
| | Add : Opening Expenses Payable | 420,189.00 | |
| | Less : Expenses Payable | 588,897.00 | 2,636,837.00 |
| | Administrative Expenses (Under PFC New Account) | 5,497,299.00 | |
| | Add : Opening Expenses Payable | 1,048,231.00 | |
| | Less : Expenses Payable | 712,761.00 | 1,555,001.00 |
| | Payments made against funds for various projects | | |
| | Grant Utilisation - Women Scientist Scholarship Scheme | | |
| | Add : Opening Expenses Payable | | |
| | Less : Expenses Payable | | 3,855,525.00 |
| | Establishment Expenses (Under WSSS New Account) | 13,152,951.00 | |
| | Add : Opening Expenses Payable | 1,000,704.00 | |
| | Less : Expenses Payable | 268,565.00 | 1,138,470.00 |
| | Administrative Expenses (Under WSSS New Account) | 1,507,230.00 | |
| | Add : Opening Expenses Payable | 153,758.00 | |
| | Less : Expenses Payable | 104,064.00 | 1,631,450.00 |
| | Grant Utilisation - Vision 2020 | 21,140,732.00 | |
| | Add : Opening Expenses Payable | 975,627.00 | |
| | Less : Expenses Payable | 1,139,724.00 | 20,976,635.00 |
| | Grant Utilisation - Technology Vision 2035 | | 4,044,291.00 |
| | Addition in Fixed Assets | | |
| | Office Equipment | 73,270.00 | - |
| | Library Book | 51,559.00 | 12,762.00 |
| | Furniture & Fixtures | 5,000.00 | |
| | Computer & Peripherals | 666,866.00 | 211,923.00 |
| #### | Other Payments (Specify) | | |
| | CPF | 294,991.00 | - |
| | CPF (Under PFC Account) | 24,700.00 | - |
| | Sundry Creditor : M/s Daikin Airconditioning India Pvt. Ltd | 152,527.00 | 157,294.00 |
| | Sundry Creditor : M/s Blue Star Ltd. | 165,956.00 | - |
| | Patent Facilitating Centre | 6,000.00 | - |
| | Sundry Creditor : Unique Interiors, New Delhi | 191,075.00 | - |
| | Sundry Creditor : India International Centre | 325,854.00 | - |
| | Earnest Money from Sugra Factories (Annex 13) (M/s Riga Sugar) | 100,000.00 | - |
| | Earnest Money : M/s Sansanwal Travels | 50,000.00 | - |
| | Earnest Money : M/s Yartika Travels | 50,000.00 | - |
| | M/s Sonu Printing Press | - | 60,784.00 |
| | Earnest Money : M/s Sansanwal Travels | - | 10,000.00 |
| | Earnest Money : M/s Yatrika Travels | - | 10,000.00 |
| | Leave Encashment Receivable (Shambhu Kumar) (Under PFC New Account) | - | 10,721.00 |
| | Staff Advance (Under TIFAC) | 158,656.00 | - |
| | Total (i) | 219,536,084.41 | 187,623,107.71 |

| Technology Information Forecasting & Assessment Council | | | |
|--|--|-----------------------|-----------------------|
| Receipts & Payments for the Period the Year Ended 31.03.2014 | | | |
| <u>Payments</u> | | Current Year | Previous Year |
| Staff Advance (Under PFC New Account) | | - | 87,125.00 |
| Staff Advance (Under WSSS New Account) | | - | 4,000.00 |
| Interest Accrued (Under PFC New Account) | | 77,888.00 | 77,888.52 |
| Interest Accrued (Under WSSS New Account) | | 21,624.00 | 21,624.00 |
| IIT-TIFAC Maintenance (Provisions) | | 22,041.00 | - |
| Interior Work of TIFAC Building | | 34,786.00 | 416,564.00 |
| Fire Alarm System at TIFAC Building & Fire Extinguishers | | 13,440.00 | - |
| Advance DAVP | | 43,179.00 | - |
| Security Deposite : Sh.Kapil Aggarwal | | 100,000.00 | - |
| Security Deposite : UBI Locker Rent | | 8,403.00 | - |
| TIFAC/DST ITS Canada Workshop | | 88,732.00 | - |
| TDS (Indian Oil Corporation Limited) | | 61,346.00 | - |
| Advance : India Habitat Centre | | - | 2,018.65 |
| Amount Transferred to PFC | | - | 38,493.32 |
| Amount Transferred to SFWS | | - | 4,879,744.00 |
| Closing Balance | | | |
| Cash in Hand | | 6,195.00 | 3,677.00 |
| Cash in Hand(Under PFC New Account) | | 520.00 | 439.00 |
| Cash in Hand(Under WSSS New Account) | | 2,020.00 | 5,839.00 |
| Cash at Bank | | 105,375,926.31 | 171,766,782.83 |
| Cash in Hand (Under PFC New Account) | | 13,406,683.84 | 10,887,788.32 |
| Cash in Hand (Under WSSS New Account) | | 8,836,067.00 | 2,148,598.00 |
| Short Term Deposite | | 182,724,214.00 | 144,088,555.00 |
| Franking Machine | | 677.00 | 1,108.00 |
| Total (ii) | | 310,823,742.15 | 334,430,244.64 |
| Total (i) + (ii) = (B) | | 530,359,826.56 | 522,053,352.35 |

For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

Sd/-
Ch. Chandra Sekhar Patro
(Partner)

Sd/-
Accounts Officer
TIFAC

Sd/-
Registrar
TIFAC

Sd/-
Executive Director
TIFAC

MRN: 091529

Date: 20-09-2015
Place: New Delhi

| Technology Information Forecasting & Assessment Council | | | |
|--|--|-----------------------|-----------------------|
| Receipts & Payments for the Period the Year Ended 31.03.2014 | | | |
| | <u>Receipts</u> | Current Year | Previous Year |
| 1 | <u>Opening Balances</u> | | |
| | Cash in hand | 3,677.00 | 3,681.00 |
| | Cash in Hand (Under PFC New Account) | 439.00 | - |
| | Cash in Hand (Under WSSS New Account) | 5,839.00 | - |
| | Bank balances | | |
| | In Current Accounts | | |
| | In Deposit Accounts | 144,088,555.00 | 69,858,718.00 |
| | Savings Accounts | 171,766,782.83 | 102,786,894.27 |
| | Savings Accounts (Under PFC New Account) | 10,887,788.32 | - |
| | Savings Accounts (Under WSSS New Account) | 2,148,598.00 | - |
| | Advance for Franking Machine | 1,108.00 | 6,691.00 |
| 2 | <u>Grants Received</u> | | |
| | From Government of India - Plan (TIFAC) | 81,247,000.00 | 205,300,000.00 |
| | From Government of India - Non Plan (TIFAC) | 375,000.00 | 450,000.00 |
| | Scholarship for Womet Scientist | - | 10,000,000.00 |
| 3 | <u>Interest Received</u> | | |
| | On Bank Deposits (TIFAC) | 13,635,659.00 | 9,229,837.00 |
| | On Bank Savings (TIFAC) | 5,230,404.00 | 5,527,535.00 |
| | Loans Advances etc. (Staff advances) | 43,447.00 | 59,810.00 |
| | Interest from Income Tax | 13,143.00 | 875,000.00 |
| | Loan Advance (HBA) | | |
| 4 | <u>Other Income (Specify)</u> | | |
| | Refund from HGT Project | 10,294,000.00 | 2,571,000.00 |
| | Refund from Advance Composite Programme | 13,017,020.00 | 20,679,723.00 |
| | Refund from Vision 2020 | 7,665,879.24 | 14,352,726.24 |
| | Other Income (Annexure 18) | 320,951.00 | 143,699.00 |
| | Refund from Sugar Technology Mission | - | 8,300,000.00 |
| | Refund from TePP Project | 49,185.00 | - |
| | Refund from Fly Ash Utilization Programme | 10,000.00 | 30,000.00 |
| 5 | <u>Receipts fro Patent Facilitating Centre</u> | | |
| | Grant in Aid | - | - |
| | Grant in Aid (Under PFC New Account) | 15,000,000.00 | 15,000,000.00 |
| | Amount Trasfered from TIFAC Main Account (Under PFC New Account) | - | 38,493.32 |
| | Ekaswa A&B CD RoM | - | 7,500.00 |
| | Ekaswa A&B CD RoM (Under PFC New Account) | 14,000.00 | 8,000.00 |
| | Nominal Charges for Dissemination of TIFAC Reports (Under PFC New Account) | | 500.00 |
| | Interest from Bank (Savings) (Under PFC New Account) | 387,908.00 | 174,290.52 |
| | Interest from Advances etc. (Staff Advane) (Under PFC New Account) | 3,385.00 | 220.00 |
| | Interst Scooter Advance | - | 308.00 |
| 6 | <u>Receipts for Women Scientist Scholourship Scheme</u> | | |
| | Grant in Aid | - | - |
| | Grant in Aid (Under WSSS New Account) | 22,000,000.00 | - |
| | Amount Trasfered from TIFAC Main Account (Under WSSS New Account) | - | 4,879,744.00 |
| | Interest from Bank (Savings) (Under WSSS New Account) | 121,480.00 | 70,007.00 |
| | Interest from Advances etc. (Staff Advane) (Under WSSS New Account) | 184.00 | 230.00 |
| 6 | <u>Other Receipts (Give Details)</u> | | |
| | Nominal Charges for Dissemination of TIFAC Reports | 77,634.00 | 105,778.00 |
| | Tender for Car Hiring Accounts | - | - |
| | RTIA Questions | 3,024.00 | 1,528.00 |
| | Total (i) | 498,412,090.39 | 470,461,913.35 |

| Technology Information Forecasting & Assessment Council | | |
|--|----------------------|----------------------|
| Receipts & Payments for the Period the Year Ended 31.03.2014 | | |
| Receipts | Current Year | Previous Year |
| Tender for Car Hiring | 2,000.00 | - |
| Tender for Laptops | 5,000.00 | - |
| Tender for Supply of Drinking Water | 1,500.00 | - |
| Tender for Digitalization of TIFAC Reports | 6,500.00 | - |
| Tender for Printing of Various Stationary Items | - | 2,500.00 |
| Tender for Empanelment of Caterer | - | 1,250.00 |
| Tender for Empanelment of Advertisement Agencies | - | 4,500.00 |
| Staff Advance | - | 273,159.00 |
| Stale Cheque Received | 86,567.00 | 72,089.00 |
| DRDO - PFC | - | - |
| Advance : DAVP | 41,554.00 | - |
| Earnest Money : M/s Pink House Keeping | - | 18,784.00 |
| Sundry Creditor : M/s Daikin Airconditioning India Pvt Ltd | - | 152,527.00 |
| Sundry Creditor : M/s Blue Star Ltd | 169,274.00 | 165,956.00 |
| Sundry Creditor : Patent Facilitating Centre | - | 6,000.00 |
| Sundry Creditor : M/s Unique Interiors, New Delhi | - | 191,075.00 |
| Sundry Creditor : India International Centre | - | 325,854.00 |
| Training Programme on IPR & WTO Issues for Scientific/Technologies workign in Government Sectors. | - | 55,097.00 |
| G.M.W Workshop (SRF) | 216,578.00 | - |
| Prepration of Detailed Project Report & Desing of R&D Schedul for Launch of National Mission Electric Mobility | 547,907.00 | - |
| Earnest Money : M/s Dogra Enterprises | 5,000.00 | - |
| Earnest Money : M/s Bagga Tours and Travels | 50,000.00 | - |
| Earnest Money : M/s Dip Technologies Pvt. Ltd | 5,000.00 | - |
| Earnest Money : M/s Perfect Traders | 5,000.00 | - |
| Office Equipment (Deductions during the year) | 14,900.00 | - |
| Advance : Indian Habitat Center | 2,018.65 | - |
| Security Deposit : MTNL | 6,000.00 | - |
| Earmarked for Release to SIDBI (Revolving Fund) Capital Fund | 30,000,000.00 | 45,000,000.00 |
| Security Deposite : M/s Pink House Keeping | - | 11,398.00 |
| Security Deposite : MTNL | - | 12,000.00 |
| Income Tax for he F.Y 2004-2005 | - | 5,000,000.00 |
| TDS :CPF (FDR) UBI, SDA | 321,591.00 | - |
| TDS (FDR) Sarita Vihar, New Delhi | 19,726.00 | - |
| GSLIS (Under PFC New Account) | - | 346.00 |
| Total (ii) | 31,506,115.65 | 51,292,535.00 |

| Technology Information Forecasting & Assessment Council | | |
|--|-----------------------|-----------------------|
| Receipts & Payments for the Period the Year Ended 31.03.2014 | | |
| Receipts | Current Year | Previous Year |
| CGHS (Sh.Rajani Kanth Gupta) Ex. Registrar | 2,550.00 | - |
| Income Tax | - | 16,995.00 |
| Education Cess | - | 179.00 |
| Interest Accrued from Unin Bank of India (Under PFC New Account) | 77,888.52 | - |
| Interest Accrued from Unin Bank of India (Under WSSS New Account) | 21,624.00 | - |
| Medical Scheme | 230,917.00 | 247,600.00 |
| Medical Scheme (Under PFC New Account) | 22,200.00 | 9,250.00 |
| Leave Travel Expenses Payable (Sh.Shambhu Kumar) | 2,720.00 | - |
| Sh.Shambhu Kumar (HBA) (PFC New Account) | 8,000.00 | - |
| Staff Advance (PFC New Account) | 26,000.00 | - |
| Staff Advance (WSSS Account) | 4,000.00 | - |
| CPF | - | 180.00 |
| CPF (Under PFC New Account) | 35,000.00 | 24,700.00 |
| Leave Encashment Receivable Sh.Shambhu Kumar (Under PFC New Account) | 10,721.00 | - |
| Total (iii) | 441,620.52 | 298,904.00 |
| Total (i) + (ii) + (iii) = (A) | 530,359,826.56 | 522,053,352.35 |

AUDITORS' 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 2015 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.

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 2015.

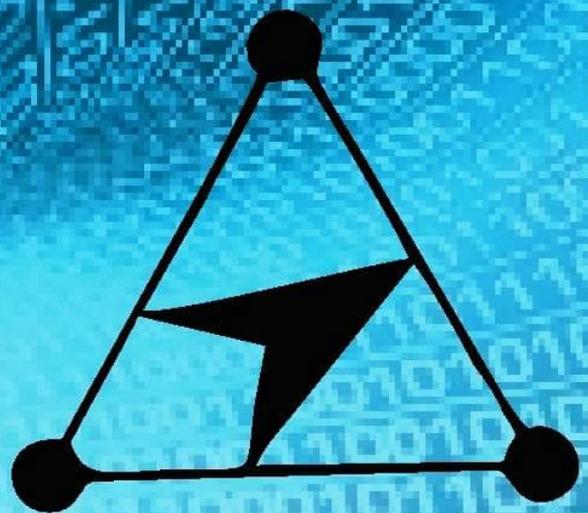
For Anil Bhatla & Company
Chartered Accountants
FRN: 012686N

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

Date: 20-08-2015
Place: New Delhi

| Contributory Provident Fund - TIFAC | | | | | | |
|---|--|---------------|----------------------------------|-----------------------------------|--|----------------------------------|
| Statement of Affairs as on 31st March, 2015 | | | | | | |
| Previous Year as on 31.03.2014 | Particulars | | Current Year as on 31.03.2015 | Previous Year as on 31.03.2014 | Particulars | Current Year as on 31.03.2015 |
| | Interest Accrued | | | 5,243,900.93 | Balance with UBI Deposits | 2,619,017.63 |
| 24,177,590.70 | Last Balance | 29,718,356.70 | | 520,330.00 | Special deposit with RBI | 520,330.00 |
| 5,624,654.00 | Add: Received/ Accrued during the year | 5,670,297.00 | | 63,923,723.00 | Short Term deposit with UBI | 65,158,703.00 |
| 29,802,244.70 | | 35,388,653.70 | | 497,784.00 | Flexi Deposit- UBI | 535,603.00 |
| 83,888.00 | Less: Loss of Intrest on Pre-closure of FD | 436,967.00 | | | | |
| 29,718,356.70 | | | 34,951,686.70 | | Loan/ Advances to staff members | |
| | Employees Contribution | | | 3,350.00 | Shri Anil Kumar Rai | 24,244.00 |
| 18,600,117.93 | Last Balance | 19,274,347.93 | | 62,200.00 | Shri Arghya Sardar | 61,800.00 |
| 6,390,636.00 | Add: Received during the year | 6,672,650.00 | | 45,000.00 | Ms. Sangeeta Nagar | - |
| 24,990,753.93 | | 25,946,997.93 | | 15,000.00 | Sh. Somanath Nath | 20,000.00 |
| 5,716,406.00 | Less: Paid during the year | 11,293,592.00 | | - | Ms. Uma Daral | 22,500.00 |
| 19,274,347.93 | | | 14,653,405.93 | 298,200.00 | Ms. Swati Sharma | 27,500.00 |
| | TIFAC Contribution | | | - | Sh. Sundender Prasad | 180,600.00 |
| 20,078,024.00 | Last Balance | 22,027,513.00 | | 41,200.00 | Sh. M Suresh Babu | 45,000.00 |
| 3,090,938.00 | Add: Received during the year | 2,568,869.00 | | 65,000.00 | Sh. S.K. Muneshwar | - |
| 23,168,962.00 | | 24,596,382.00 | | 58,000.00 | Sh. Surinder Kumar | 31,400.00 |
| 1,141,449.00 | Less: Paid during the year | 4,828,327.00 | | 43,880.00 | Sh. Deep Prakash | 22,000.00 |
| 22,027,513.00 | | | 19,768,055.00 | 1,000.00 | Sh. Ravinder Kumar | - |
| | | | | 110,400.00 | Ms. Mercy James | - |
| | | | | 15,000.00 | Sh. T.Chakradhar | 43,200.00 |
| | | | | 60,000.00 | Sh. Sumit kumar | 30,000.00 |
| | | | | 16,250.00 | Mr. T. Adarsh | 30,000.00 |
| | | | | | Sh. Bishram Bhakta | 1,250.00 |
| 71,020,217.63 | Total | | 69,373,147.63 | 71,020,217.93 | Total | 69,373,147.63 |
| For Anil Bhatla & Company | | | | | | |
| Chartered Accountants | | | | | | |
| | | | | | | |
| | | | | | | |
| | Sd/- | | Sd/- | | | Sd/- |
| | Ch.Chandra Sekhar Patro | | Chairman | | | Trustee |
| | Partner | | | | | |
| | Membership No.091529 | | | | | |
| | Date : 20.08.2015 | | | | | |
| | Place : New Delhi | | | | | |

| Contributory Provident Fund - TIFAC | | |
|---|--|-------------------------------|
| Statement of Affairs as on 31st March, 2015 | | |
| | | (Amount Rs.) |
| Pervious Year as on 31.03.2014 | PARTICULARS | Current Year as on 31.03.2015 |
| 5,243,900.63 | Balance with UBI Deposit | 2,619,017.63 |
| 520,330.00 | Special deposit with RBI | 520,330.00 |
| 63,923,723.00 | Short Term deposit with (UBI) | 65,158,703.00 |
| 497,784.00 | Flexi Deposit -UBI | 535,603.00 |
| | Loan/ Advances to staff members | |
| 3,350.00 | Shri Anil Kumar Rai | 24,244.00 |
| 62,200.00 | Shri Arghya Sardar | 61,800.00 |
| 1,000.00 | Ms. Mercy James | - |
| 110,400.00 | Sh.T. Chakradhar | 43,200.00 |
| 60,000.00 | Sh. T. Adarsh | 30,000.00 |
| 15,000.00 | Sh. Sumit kumar | 30,000.00 |
| | Sh. M. Suresh Babu | 45,000.00 |
| 298,200.00 | Sh. Surender Prasad | 180,600.00 |
| 41,200.00 | Sh. S.K. Muneshwar | - |
| - | Ms. Swati Sharma | 27,500.00 |
| 43,880.00 | Sh. Ravinder Kumar | - |
| 45,000.00 | Smt.Sangeeta Nagar | - |
| 65,000.00 | Sh. Surinder Kumar | 31,400.00 |
| 16,250.00 | Sh. Bishram Bhakta | 1,250.00 |
| - | Ms. Uma Daral | 22,500.00 |
| 58,000.00 | Sh. Deep Prakash | 22,000.00 |
| 15,000.00 | Sh. Somanath Nath | 20,000.00 |
| 71,020,217.63 | Total | 69,373,147.63 |
| For Anil Bhatla & Company | | |
| Chartered Accountants | | |
| | | |
| | | |
| Sd/- | | |
| Ch.Chandra Sekhar Patro | | |
| Partner | | |
| Membership No.091529 | | |
| Date : 20.08.2015 | | |
| Place : New Delhi | | |



TIFAC

TECHNOLOGY INFORMATION, FORECASTING AND ASSESSMENT COUNCIL (TIFAC)

(An Autonomous Body of Department of Science & Technology, Govt. of India)

'A' Wing, Vishwakarma Bhavan, Shaheed Jeet Singh Marg, New Delhi-110 016

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