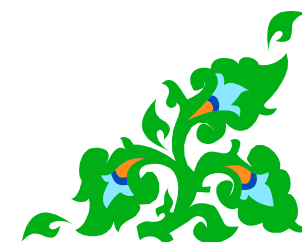
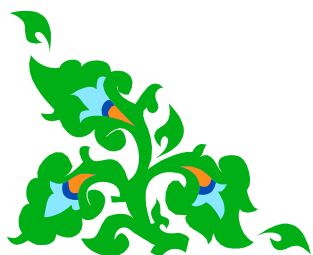




**Technology Information, Forecasting &
Assessment Council (TIFAC)**
(Department of Science & Technology), Govt. of India



TIFAC - AN INTRODUCTION



Technology Information, Forecasting & Assessment Council (TIFAC) a registered autonomous body under the aegis of Department of Science & Technology, Govt. of India, New Delhi:

- Started functioning in Mid 1988
- Chaired by Dr.R.Chidambaram, Principal Scientific Adviser to the Govt.of India
- Comprises other members who are eminent persons from the Central Government, Corporate sector, National R&D Laboratories and Academia.

Objectives:

- Undertake techno-market, technology assessment /forecasting studies in key sectors of national economy,
- Technology watch on global trends and formulation of preferred options for India,
- Establish a nationally accessible technology information system, and
- Promotion of key technologies.

TIFAC – KNOWLEDGE NETWORK IN ACTION



Foresight Reports
Techno-Market Surveys

Knowledge about future,
Business links, and
Details of technologies

Also links potential
partners

**A VITAL STEP FOR
PLANNING
ACTIONS**

FEED FORWARD

Developing
focussed Projects
with '*Stake Holders*

- Existing
- Dormant
- Potential

**INFO & IPR
Services**

FEEDBACK

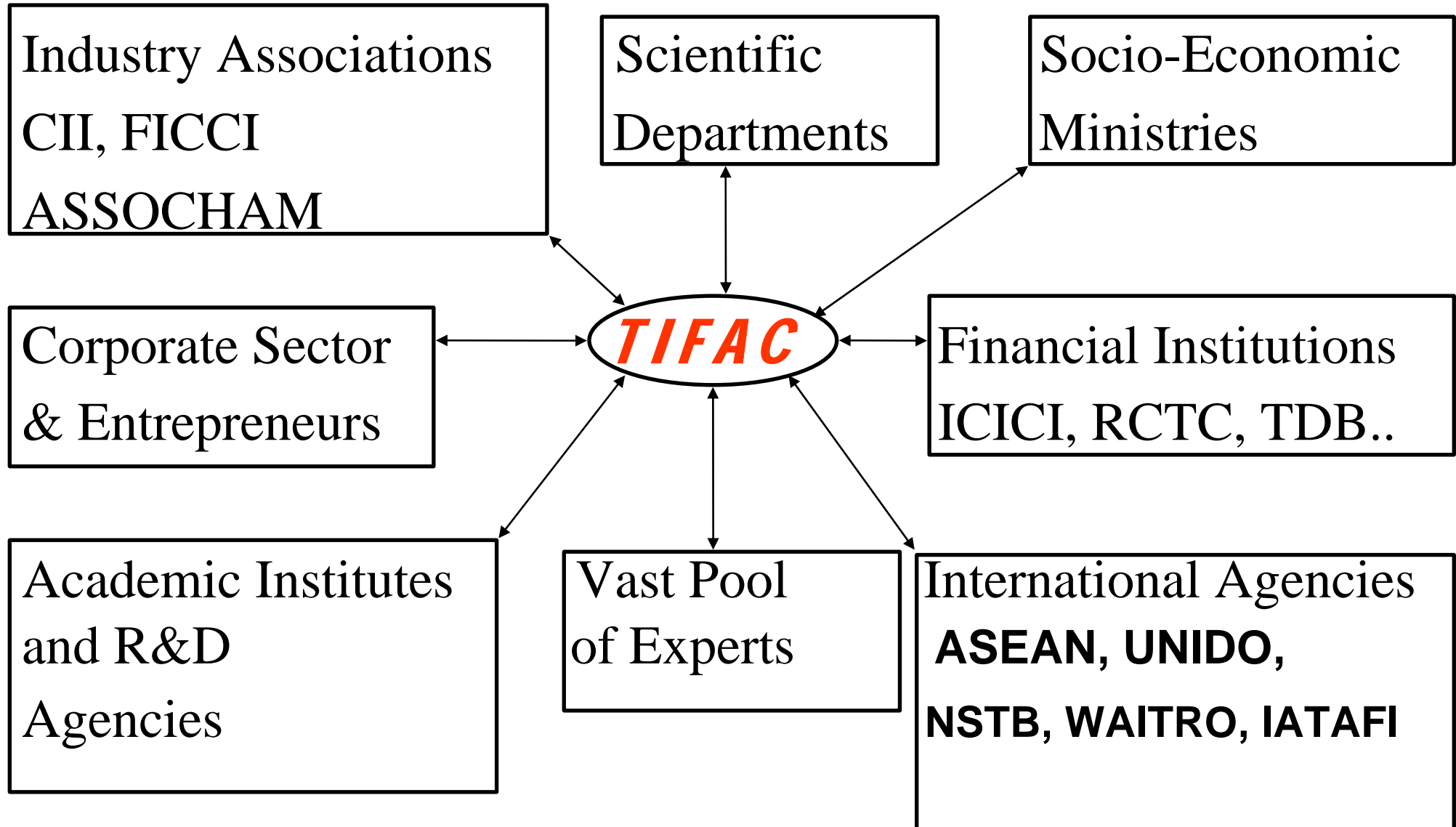
Home grown Technologies -
Covers entire spectrum

Large Scale Sectoral
Missions – Sugar, Fly Ash,
Advanced Composites

Vision 2020 Projects –
Focussed Sectors AND
Individual Projects
(All Sectors)

Actions by Others
TDB, Industry, Other
Ministries etc.

TIFAC NETWORK



TIFAC : Strengths & Achievements



- Over 270 specialized reports on Technology Linked Business Opportunities
- Indian S&T Scenario : Series of sectoral reports
- Technology Vision 2020, a mega exercise on national level (involving 5500 experts)
- Technology Vision 2020 Mission Programmes in Six Sectors
- Technology & Patent Information Services
- Lab-to-Commercialization : Three Mission-mode programmes & Home Grown Technology Programme

TIFAC – Reports



- Over 270 Informative reports brought out sharply focussed Technology Assessment (TA), Technology Forecasting (TF) and Techno-Market Survey (TMS) reports.
- Covered most of the important areas of social and economic significance to the country with a status of the world and business opportunities.
- Provides a vision and options for technology trajectories for Industries, R&D Institutions, Government, Academia and other agencies
- Yearly about 10 new or update reports

TIFAC – Home Grown Technology (HGT)



- Support to about 50 technologies developed by indigenous R&D.
- HGT assists to reach technologies from bench scale level to pilot scale or semi-commercial level.
- Successful in spawning a new confidence in Indian Companies and R&D Labs to develop modern technological innovations and implement them in commercial scale.
- A strong movement from Indian SMEs for HGT support
- Yearly about 15 new projects

TIFAC – Technopreneur Promotion Programme (TePP)



- About 24 projects supported by TIFAC.
- TePP Programme – A novel programme to tap the vast innovative potential of the citizens of India.
- TePP acts as a crucible to promote individual innovators to become technology based entrepreneurs
- Yearly about 10 new projects

TIFAC – Sugar Production Technology Mission (STM)



- About 27 sugar factories taken up for technology upgradation
- STM aims towards sharper and focussed technological upgradation in selected sugar factories to accomplish, interalia, the cost effectiveness of sugar production through improvement in plant efficiency, energy savings etc.,
- The focus is also on improving the capital output ratio through optimization and identification of user-friendly technologies.
- Yearly about 10 new projects

TIFAC – Fly Ash Utilization Mission (FAM)



- About 55 Technology Demonstration Projects spread over **TEN** different thrust areas
- Broad objective of FAM is to build confidence in Fly Ash Disposal / Utilization Technologies through Technology Development Projects towards large scale utilization & safe disposal.
- As result, Fly Ash usage in various applications picked up from 3% of 40mn Tonne in 1993 to 15% of 95 mn Tonne in 2000.
- Yearly about 10 new projects

TIFAC – Advanced Composites Mission (ACM)



- About 22 projects nation-wide with industry participation
- ACM aims at developing certain critical strategic inputs in terms of raw materials, design capability, skilled manpower and testing devices. ACM focusses to enhance the utilization and application of composites as important performance materials in various sectors.
- Wide array of innovative composite products suitable for low cost building and construction sector and biomedical appliances **delivered** on a critical time **for the earthquake victims** in the State of Gujarat.
- Yearly about 5 new projects

TIFAC – Integration of Computational Facility for Scientific Research-High Performance Computing Facility (ICOSER)



- 7 Level-III Centres developed.
- ICOSER aims at development of high performance computing facilities in some of the research and engineering institutions in the country and networking these institutions.
- More than 2000 researchers, scientists and students using the installed systems.

International & Industrial Relations

- TIFAC designated as a focal point from India for interaction with ASEAN on S&T cooperation, successful in generating joint projects related to different areas.
- One of the Founder Members of International Association of Technology Assessment and Forecasting Institutions (IATAFI)

TIFAC – Intellectual Property Rights



- More than 94 Patent Awareness Workshops held, sensitized more than 9000 scientists, technologists and policy makers from 97 universities, 180 R&D Institutions, 200 Industries and Government.
- About 124 Patents Filed in India and Abroad.
- About 75 Issues of IPR Monthly Bulletin circulated to about 8000 readers in the country. About 350 subscriptions for online bulletin.
- Pioneered Two CD-ROM databases on Indian Patents
- Yearly about 15 Workshops, 10 Patents and 12 Bulletins
- Exclusive website www.indianpatents.org >25,000 visitors/month

TIFAC – Information Services & Special Initiatives



- Over 1,50,000 techno-savvy visitors every month log on TIFAC Website www.tifac.org.in running over 15,000 pages
- Frequently updated dynamic site features unique services in various fields of technologies to various end users
- Unique platform to discuss issues pertaining to various technology related topics

Special Initiatives

- Various special initiatives undertaken in Non-Ferrous metals, Steel, Titanium etc.,

U.N.D.P. Projects

- Mission for Application of Technology to Urban Renewal and Engineering (MATURE)
- Information Technology for Sustainable Agricultural Production System in the State of Punjab (ITSAPSP)

TECHNOLOGY VISION 2020



MISSION PROGRAMMES

Agriculture & Agro Food Processing

Upgradation of Road Construction & Transportation Equipment

Upgradation of Textile Machinery

Health Care Services

**Upgradation of Science & Engineering Colleges
(Mission REACH)**

Targetted Programmes in other Important Areas

TIFAC – Technology Vision 2020 Mission Programmes



- **Agriculture & Agro Food Processing** – Increasing Agricultural production (Total systems approach, Green-house cultivation, etc.,) and Food Processing (Milk, Fruits & Vegetables, Cereals) **10 Projects Launched**
- **Road Construction & Transportation Equipment** – Upgrading existing strength of manufacturing capability in the sectors and provide technology support. **5 Projects Launched**
- **Textile Machinery Upgradation** – Aimed at technology upgradation of selected textile machines. **6 Projects Launched**

TIFAC – Technology Vision 2020 Mission Programmes



- **Upgradation of Science & Engineering Colleges (Mission REACH)** – aims to create about 100 Centres of Relevance and Excellence in ACHieving new heights in selected departments at par with national / world's best. **8 Centres of Relevance & Excellence (CORE) Setup.**
- **Health Care Services** – Technology Development for medical equipment & Optimization of Process for Herbal & Natural Products.
- **Targetted Programmes in other Important Areas** – Electric Power, Rural Connectivity, Upgradation of Pharma SMEs, Alternate Energy Sources like – Hydrogen, Energy Towers, Garbage to Power etc.,

Thank You



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www.missionreach.org.in