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**ASIAN AND PACIFIC CENTRE FOR TRANSFER OF TECHNOLOGY**

**SUMMARY**

This report presents briefly the activities of APCTT in 2004 and the decisions and recommendations of the Technical Advisory Committee and the Governing Board at their sessions held from 27 to 29 November 2004.

In 2004, the activities of APCTT were directed towards research and analysis on trends, conditions and opportunities with regard to the transfer of technology, technology capacity-building, dissemination of information and good practices, promotion and management of innovation, as well as subregional and regional networking to enable the countries of the Asia-Pacific region to respond to the challenges of the new global knowledge-based economy. The recommendations of the Governing Board at its eighteenth session, held on 6 and 7 February 2004, and the work plan drawn up at the planning workshop held on 7 and 8 April 2004 helped the Centre to take steps to realign its programme with the work of ESCAP, and were the basis for the four areas that the Centre focused on in 2004, namely, technology information, technology transfer, environmental technology and technology management and innovation. The Centre's main target groups are small and medium-sized enterprises and intermediaries/SME support service providers. The technology information and transfer advisory services of the Centre are provided through: technical periodicals and publications; technology exchange services; technology information and transfer networks; and technology transfer events. In 2004, the Centre embarked on new initiatives, namely, "Tech-Mart", a web-based market for technology trade between technology sellers and buyers, establishment of "technology4sme", a network of technology transfer portals, Business-asia.net, a nation-specific web portal to provide information on policies and programmes and practical advice for business start-ups and ongoing businesses, and Business Circle, a web-based sector-wise community for people to explore business opportunities in the Asia-Pacific region.

The Governing Board of APCTT at its nineteenth session, held on 28 and 29 November 2004, was informed that the Statutes of all the regional institutions of ESCAP were being revised and harmonized as part of efforts to ensure full compliance with United Nations intergovernmental and administrative procedures. The revised draft Statute, which was based on a model statute cleared by the United Nations Office of Legal Affairs, was discussed at that session of the Board.

With the increased contribution from the Government of India, the Centre's financial position, with a combined country contribution of US\$ 294,222.10, was eased somewhat. However, a minimum of US\$ 550,000 is required as institutional support to enable the Centre to deliver its services to the member countries in a more effective, regular and sustainable manner. Member countries are therefore urged to provide institutional support at or above the indicative levels, i.e., an annual contribution of US\$ 20,000 for developing countries and US\$ 5,000 for least developed countries, to enable the Centre to deliver the necessary services to the member countries on a sustainable basis. On the programme front, the major donors to the Centre currently are the Government of the Republic of Korea, which is providing both institutional and programme support to the Centre, including support for the position of the Director, the Government of Germany, which is providing support for the consolidation phase of a project implemented earlier, and the Government of India, which is providing support for a project to promote national innovation systems in the Asia-Pacific region.

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## INTRODUCTION

1. The Asian and Pacific Centre for Transfer of Technology (APCTT) is a subsidiary body of ESCAP established on 16 July 1977. It is located in New Delhi. The Centre's Statute was adopted by the Commission in its resolution 243 (XLI) of 29 March 1985. The host country agreement according to the Centre the status of a United Nations institution with the applicable immunities and privileges was formally signed by ESCAP and the Government of India on 7 April 1994.

### I. MAJOR DEVELOPMENTS AND RESULTS IN 2004

2. The activities of APCTT are directed towards technology capacity-building, promotion and management of innovation and subregional and regional networking to assist countries of the Asian and Pacific region in responding to the challenges that have arisen as a result of the new global knowledge-based economy. In addition, APCTT is increasingly focusing on research and analysis of trends, conditions and opportunities with regard to the transfer of technology as well as the identification and dissemination of good practices. In 2004, the Centre took steps to realign its programme with the work of ESCAP and focused on technology information, technology transfer, environmental technology and technology management and innovation. APCTT took into account the recommendations of the Technical Advisory Committee at its nineteenth meeting and of the Governing Board at its eighteenth session, held in Manila on 6 and 7 February 2004, and the work plan drawn up at the planning workshop held on 7 and 8 April 2004. The Centre's main target groups are small and medium-sized enterprises (SMEs) and intermediaries/SME support service providers and its technology information and transfer advisory services are provided through: technology exchange services; technical periodicals and publications; technology information and transfer networks; and technology transfer events. To facilitate these services, the Centre embarked on some new initiatives in 2004, namely, "Tech-Mart", a web-based market for technology trade between technology sellers and buyers, establishment of "technology4sme", a network of technology transfer portals, "Business-asia.net", a nation-specific web portal to provide information on policies and programmes and practical advice for business start-ups and ongoing businesses, and "Business Circle", a web-based sector-wise community for business people to explore business opportunities in the Asian and Pacific region. All the activities of the Centre are SME-oriented, IT-powered, environmentally responsible and gender-conscious. Further details of APCTT's work may be found in annex I.

3. APCTT has received funding from the Government of India to promote national innovation systems (NIS) in its member countries. Through this fund, APCTT will assist member countries in their strategies to promote NIS by providing consultancy services and sharing good practices. For this purpose, APCTT will construct an online and offline network on NIS. The network will mainly interconnect government agencies and research institutes promoting the development of national

innovation systems. At a one-day seminar held in Dhaka on 30 November 2004 in conjunction with the Governing Board's session, the participants exchanged "good practices" in areas such as R&D policies and programmes, operational framework of government-supported research institutions, promotion of private sector R&D, public-private partnerships and science and technology infrastructure development towards NIS. The setting up of an online and offline network was discussed during the seminar.

4. The Government of the Republic of Korea provided funding in 2003 to support the institutional and operational costs of the Centre over a two-year period. This funding is supporting the operation of APCTT and activities relating to realigning/redirecting the Centre's programmes in line with recommendations in the evaluation undertaken in early 2003. As per the recommendation of the Technical Advisory Committee at its nineteenth meeting and the Governing Board at its eighteenth session, a planning workshop was held in Bangkok on 7 and 8 April 2004 to draw up a work plan for the Centre in line with the thematic priorities of ESCAP and taking into account the recommendations of the evaluation of the Centre and the needs of member countries. The work plan drawn up at the planning workshop was presented to the Governing Board at an extraordinary meeting held on 9 April 2004 and endorsed at the nineteenth session of the Governing Board held in Dhaka on 28 and 29 November 2004. Funding for the planning workshop and extraordinary meeting of the Governing Board was provided by the Government of the Republic of Korea under the above-mentioned project.

5. The project, "Promotion of the technology transfer network for small and medium-scale enterprises in the Asia-Pacific region", funded by the Government of Germany is aimed at enhancing the capacity of institutions/intermediaries in member countries to deliver technology transfer services in order to contribute to the improvement of the competitiveness of SMEs and accelerate the adoption of environmentally sound technologies. This project represents the consolidation phase of a project under the same title implemented earlier by the Centre. To plan a realistic and effective programme of work under this project, a planning workshop was held in New Delhi on 26 and 27 August 2004. It was attended by 16 participants from China, India, Malaysia, the Republic of Korea, Thailand and Viet Nam and staff of ESCAP and APCTT. The planning matrix designed during the workshop will be the basis for the implementation of this project.

## **II. NINETEENTH SESSION OF THE GOVERNING BOARD AND TWENTIETH MEETING OF THE TECHNICAL ADVISORY COMMITTEE**

6. The nineteenth session of the Governing Board of APCTT was held in Dhaka on 28 and 29 November 2004.

7. The session was attended by representatives of 12 member countries: Bangladesh, China, India, Iran (Islamic Republic of), Malaysia, Mongolia, Nepal, Pakistan, Republic of Korea, Sri Lanka, Thailand and Viet Nam. Representatives of the Colombo Plan also participated as observers.

8. The Board elected the following officers: Dr. Anwar ul Haq (Pakistan) as Chairperson, Mr. Luo Delong (China) as Vice-Chairperson and Mr. D.B. Jayantha Ranatunga (Sri Lanka) as Rapporteur.
9. The Board adopted the following agenda:
  1. Opening of the session.
  2. Election of the Chairperson and Vice-Chairperson.
  3. Adoption of the agenda.
  4. Future of APCTT - perceptions of the host country.
  5. Report on the activities of APCTT during the period from December 2003 to November 2004 and presentation of the status of financial resources for 2004.
  6. Presentation and discussion on the resolution on the new Statute of APCTT.
  7. Date and venue of the twentieth session of the Governing Board.
  8. Report of the Technical Advisory Committee on its twentieth meeting.
  9. Other matters.
  10. Adoption of the report.

### **III. ADMINISTRATION AND PROGRAMME OF WORK**

10. The Governing Board received a report on the activities of the Centre for 2004 as summarized in this report and described in annex I to the report.
11. The Governing Board approved the programme of activities for 2005, as attached in annex II to the present report.
12. ESCAP requested the establishment of a new P-5 post for work related to information, communication and space technology through the transfer of technology in Asia and the Pacific in response to a request by the Commission at its sixtieth session to realign this area of work with the thematic priorities of ESCAP.
13. Details of the APCTT programme of work for 2006-2007 are included in annex III.

### **IV. DECISIONS AND RECOMMENDATIONS**

14. The report of the Technical Advisory Committee on its twentieth meeting was endorsed by the Governing Board at its nineteenth session. The Board made the following recommendations:
  - Efforts should be made to strengthen the staffing position of the Centre through the secondment of regular budget staff on a short-term basis and through the placement of non-reimbursable loan experts by member countries.

- ESCAP should contact the member countries to ensure that annual pledges are made towards the institutional support of APCTT.
- Member countries should consult their Governments on the proposed revised Statute for the Centre and report to ESCAP by 31 January 2005 on their position.

#### **V. PLEDGES AND CONTRIBUTIONS, 2004-2005**

15. The Governing Board expressed thanks to the member States and organizations that had supported the programme of work of APCTT for 2004 and pledged resources for 2005 (see annex IV).

#### **VI. REVISED STATUTE**

16. The Governing Board was informed by the Executive Secretary that as part of efforts to ensure full compliance with United Nations intergovernmental and administrative procedures, the Statutes of the regional institutions were being revised and harmonized. The current revised draft Statute, as contained in annex V, was based on a model statute, cleared by the United Nations Office of Legal Affairs.

17. Since a few members wanted more time to consult their Governments on the proposed revised Statute, it was agreed that each representative could indicate his/her Government's position ("yes" or "no" in terms of support for the revised Statute) by 31 January 2005. If a response was not received by 31 January 2005, that would be taken to mean support for the revised draft Statute. It was decided that the majority view would prevail with regard to the Board's endorsement of the draft Statute for submission to the Commission at its sixty-first session. The secretariat was requested to provide the Board with a note comparing the current Statute with the revised draft to facilitate review. That note was sent to all the member States on 3 December 2004. A reminder note was sent on 12 January 2005.

*Annex I*

**IMPLEMENTATION OF THE PROGRAMME OF WORK, 2004**

**Expected accomplishment of related ESCAP subprogramme:** Improved application and promotion of information, communication and space technology by Governments and stakeholders in planning and implementing socio-economic development policies and programmes, towards the achievement of the internationally agreed development goals, including those contained in the United Nations Millennium Declaration (expected accomplishment 2 of the subprogramme on information, communication and space technology).

**Overall summary of results:**

In 2004, the activities of APCTT were directed towards research and analysis of trends, conditions and opportunities with regard to the transfer of technology, technology capacity-building, promotion and management of innovation as well as subregional and regional networking to enable the countries of the Asia-Pacific region to respond to the challenges of the new global knowledge-based economy. The Centre focused on the following areas in 2004: technology information, technology transfer, environmental technology and technology management and innovation. The Centre's main target groups were SMEs and intermediaries/SME support service providers. The technology information and transfer advisory services of the Centre were provided through: technology exchange services; technical periodicals and publications; technology information and transfer networks; and technology transfer events. In 2004, the Centre worked on the development of some new initiatives, namely, "Tech-Mart" a web-based market for technology trade between technology sellers and buyers, establishment of "technology4sme", a network of technology transfer portals, Business-asia.net, a nation-specific web portal to provide information on policies and programmes and practical advice for business start-ups and ongoing businesses, and Business Circle, a web-based sector-wise community for business people to explore business opportunities in the Asia-Pacific region and promotion of national innovation systems in member countries. Further details of APCTT activities in 2004 are given below.

The activities and outcomes in 2004 were funded by four sources: the Indian Government contribution, the contribution from the Government of the Republic of Korea, the contribution from the Government of Germany (through GTZ) and joint contributions from member countries. The expenditures of APCTT in 2004 totalled US\$ 612,136.47: Indian Government - US\$ 191,428.20; Republic of Korea - US\$ 231,626.16; GTZ - US\$ 73,342.63; and Joint Contribution Account (pooled annual contributions from member countries) - US\$ 115,739.48.

**Details of activities in 2004:****Technology information and technology transfer**

**Technology exchange service** - APCTT provides a technology trade platform to seekers and providers of technologies and renders technology exchange and transfer services with a view to promoting technology cooperation and trade among organizations and enterprises of the Asia-Pacific region. APCTT receives technology offers from research institutions, universities and companies, including large-scale companies and intermediaries, especially for SMEs.

- **Technology providers (sellers)** - Technology providers can submit their technology offers to APCTT using such web-based facilities as “Tech-Mart” (<[www.technology4sme.com](http://www.technology4sme.com)>) or the website <[www.apctt.org](http://www.apctt.org)>. The registration of technology offers in the APCTT databank is free of charge. Technology offers are also published in the APCTT periodical *Asia-Pacific Tech Monitor* for a fee. APCTT offers partner search services to technology providers under which the Centre approaches prospective technology buyers directly or through various established channels.
- **Technology seekers (buyers)** - Technology buyers can submit their requests to APCTT using the Centre’s website facilities mentioned above. The registration of technology requests in the APCTT databank is free of charge. Technology requests are published in the APCTT periodical *Asia-Pacific Tech Monitor* for a fee. APCTT offers partner search services to technology seekers under which the Centre approaches prospective technology offerers directly or through various established channels.

**Technical periodicals and publications** - The Centre endeavours to keep SMEs and policy makers up to date on the latest technological developments and new and emerging issues associated with the development, transfer and acquisition of technologies through its periodicals and publications. The publications have also served as an important tool to bring providers and seekers of technology together.

- ***Asia-Pacific Tech Monitor*** (ISSN 0256-9957), the Centre’s prime periodical, with 1,000 subscribers in 70 countries, is issued on a bimonthly basis and serves as a guide to the new innovation-driven economy. The articles on technological trends, technology markets and technology transfer come from leading experts in the region. Special themes covered in 2004 were knowledge management (a tool for SMEs to enhance competitiveness), tech-entrepreneurship development, technology transfer in Asia-Pacific, public-private partnerships for technology development and commercialization, sustainable growth management of SMEs and technology globalization (opportunities for small-scale enterprises). The Yellow Pages carry a section on technology opportunities covering tech offers and requests, investment opportunities and strategic alliances and joint ventures.

- Under the **Value Added Technology Information Service (VATIS)**, the Centre brings out five bimonthly periodicals, namely, *Non-conventional Energy (ISSN 0971-5630)*, *Waste Management (formerly Waste Technology) (ISSN 0971-5665)*, *Biotechnology (ISSN 0971-5622)*, *Food Processing (ISSN 0971-5649)* and *Ozone Layer Protection (ISSN 0971-5657)*. The key feature of the VATIS periodicals is the packaging of information in capsule form and the facilitation of direct access to information sources, wherever possible. The technological information is sourced from the print media, relevant websites and electronic mail services. Three of the VATIS periodicals are published with the support and cooperation of specialized institutions: *Ozone Layer Protection* is financially supported by the Ozone Cell of the Ministry of Environment and Forests, Government of India; and the Biotechnology Consortium India Limited and GTZ-ASEM (Advisory Services in Environmental Management) are co-publishers of *Biotechnology* and *Waste Management* respectively.

The web-based version of APCTT's technology-oriented periodicals is available at [www.techmonitor.net](http://www.techmonitor.net). This information website, which started in January 2003, attracts 65,000 hits per month and 3,500 specific visits. The information available in various APCTT publications, particularly periodicals, except the most recent ones, is provided free of cost on this website to cater for a wider audience.

New initiatives in technology information and technology transfer include:

- **Tech-Mart** - a web-based market for technology trade between technology sellers and buyers, where government-supported research institutions, universities, private companies and individuals can make technology deals through an online network. Tech-Mart caters for the requirements of countries in the Asia-Pacific region as well as those outside the region, within APCTT's global technology transfer network of intermediaries. Through this network it is possible to sell or buy technologies and also develop joint ventures and bridge technology demands with appropriate sources of technology supply ([www.technology4sme.com](http://www.technology4sme.com)).
- **Network of "technology4sme" portals** - "Technology4sme" is a comprehensive web portal to facilitate technology transfer and business development with a particular focus on SMEs in the Asia-Pacific region. This portal is a part of the project, "Promotion of the technology transfer network for small and medium-scale enterprises in the Asia-Pacific region". APCTT will help member countries to develop their own national "technology4sme" web portals to facilitate technology transfer within a member country and provide business support. SMEs can introduce their new technologies, new products and market news to promote their businesses. APCTT will interconnect all national "technology4sme" web portals to create a network of networks to promote technology transfer and cross-border business.

- **Business-asia.net** - APCTT is developing a website entitled <[www.business-asia.net](http://www.business-asia.net)> and plans to integrate the modified and upgraded version of the existing Business e-Coach into this website. The business-asia.net website will carry business-related information, including country-specific information on various matters such as national business policies, laws and regulations, procedures and relevant databases from the member countries.
- **Business Circle** - a web-based sector-specific community for business people to explore business opportunities in the Asia-Pacific region. The Business Circle is conceived to facilitate sharing of information online on several aspects of technology-based business opportunities, including new products, market trends, government policies and practices and national R&D infrastructure in the member countries of APCTT. APCTT intends to establish an online sector-specific Business Circle. Members of this cyber community interested in business development in the Asian and Pacific region can interact with other members in the region. The members can discuss ideas concerning business cooperation, including buying, selling and opportunities for joint ventures, finance and employment. To begin with, APCTT will form a business circle in the sector of the mechanical and materials industry, which should be available from 1 July 2005. Subsequently, business circles for other sectors such as the electrical and electronics industry, information and communication industry and transport industry will be created.

**Technology information and transfer networks** - APCTT is facilitating the establishment of networks of technology transfer intermediaries in the region to promote cross-border business cooperation among SMEs. The network members are assisted in developing partnerships with various stakeholders providing comprehensive technology transfer services. These networks and partnerships will expand the geographical coverage of APCTT activities in the Asian and Pacific region and make it possible to provide a complete technology transfer service package to a much larger group of SMEs. The Centre has now established the following three networks: International Network for Transfer of Environmentally Sound Technologies for Asia (INTET Asia); Biotechnology Information Network for Asia (BINASIA); and Asia-Pacific Traditional Medicine and Herbal Technology Network (APTMNET).

- **International Network for Transfer of Environmentally Sound Technologies for Asia (INTET Asia)** - INTET Asia was established by APCTT in 1994. The objective of the Network is to facilitate the transfer of environmentally sound technologies (ESTs) for both manufacturing and cleaning to SMEs. This Network is beneficial for innovative enterprises and technology transfer intermediaries interested in identifying new technology/collaboration opportunities for themselves or their clients with a particular focus on ESTs. Members of INTET Asia enjoy such membership benefits as free periodicals, matchmaking services, subsidized participation in technology transfer events organized by APCTT, preference in

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obtaining consultancy contracts/subcontracts through the Network and free advertising space in APCTT periodicals. The annual membership fee for INTET Asia is US\$ 300 for organizations from developed countries and US\$ 200 for organizations from developing countries. A current promotional scheme enables applicants to enjoy a three-year membership by paying a two-year fee. INTET Asia has been strengthened by new memberships. Advanced web-based networking and business exchange tools for INTET Asia members are under development.

- **Biotechnology Information Network for Asia (BINASIA)** - At the fifty-eighth Commission session, members and associate members of ESCAP requested APCTT to implement a project for the establishment of a biotechnology information network in Asia. The Ministry of Science and Technology of the Republic of Korea expressed its support for the project and requested APCTT to develop it in cooperation with the Korea Research Institute of Bioscience and Biotechnology (KRIBB). Consequently, APCTT and KRIBB agreed to a general framework of understanding and developed the BINASIA project. Thirteen member countries of APCTT, Bangladesh, China, India, Indonesia, Malaysia, Mongolia, Nepal, Pakistan, the Philippines, the Republic of Korea, Sri Lanka, Thailand and Viet Nam, have joined the Network and designated national focal points. The following activities were carried out under this project in 2004:
  - **Expert Group Meeting on BINASIA, Bangkok, 29-30 April 2004** - This meeting was jointly organized by APCTT and KRIBB in collaboration with the National Centre for Genetic Engineering and Biotechnology of Thailand, with the support of the Government of the Republic of Korea. The overall objective of the meeting was to review and exchange knowledge regarding the current status and emerging issues of biotechnology among BINASIA member countries with a special focus on national biotechnology/science and technology (S&T) policies, institutional and human resources and national and international biotechnology programmes. The meeting also deliberated on the IT-based BINASIA and its services and recommended the next steps to be taken for the successful establishment and management of BINASIA. The meeting was attended by experts from 12 national focal points. Bangladesh was unable to participate but sent a country paper.
  - **National Workshop for BINASIA, Ulaanbaatar, 5-6 November 2004** - APCTT in collaboration with KRIBB, the Centre for Biotechnology, Institute of Biology, Mongolian Academy of Sciences, and the Mongolian Centre for Technology Transfer organized this national workshop to promote BINASIA and encourage the participation of national stakeholders in the development and use of BINASIA. The workshop was attended by 40 participants who were heads of R&D institutes, key

officials in related ministries dealing with biotechnology (agriculture, industry, S&T, etc.), industry associations, SMEs, industrial and technology financing institutions, technology transfer service providers, international institutions based in Mongolia and the media (biotechnology news/journal publishers/editors).

- **Asia-Pacific Traditional Medicine and Herbal Technology Network (APTMNET) -** APTMNET is an informative web portal for the development of traditional medicine sponsored and initiated by APCTT and its member countries to promote information dissemination and industrial or technical cooperation on traditional medicine in the Asia-Pacific region. From mid-2002, APCTT and its member countries have made great efforts to establish APTMNET and considerable progress has been achieved thus far.

- **First International Training Workshop on APTMNET Nodal Stations Establishment, Wuhan, China, 6-12 June 2004** - The Ministry of Science and Technology of China sponsored this training workshop, which was organized by the Asia-Pacific Traditional Medicine and Herbal Technology Network Center and the Hubei Academy of Scientific and Technical Information and supported by the Hubei Provincial Department of Science and Technology and the National Botanical Research Institute of India. China and India played a major role in organizing the workshop since the current Chairman and Vice-Chairman of the Network are from those countries. Participants from eight countries attended the workshop; two Indian experts were specially invited as resource persons and made presentations along with the Chinese experts.

It was recommended that the respective ministries/funding agencies in each member country release funds for the establishment of national nodal stations as early as possible and preferably by the end of June 2004. The need for multilateral exchange programmes to promote the early establishment of APTMNET was emphasized. It was felt that China and India had progressed well and had expertise for establishing the nodal stations. Hence, China and India could provide technical assistance to other countries and explore possibilities for support. It was unanimously recommended that financial support for the establishment of the nodal stations would be provided by the Governments of the respective countries. China and India could explore the possibilities of attracting some support for international events under the Network. However, individual countries could also approach national and international agencies. All participants and member countries requested ESCAP and APCTT to provide more support for the establishment of APTMNET and asked APCTT to play a more active role in the programme.

- **AROGYA Exhibition, New Delhi, 21-26 September 2004** - The Department of AYUSH, Ministry of Health and Family Welfare, Government of India, supported the participation of member countries of APTMNET in AROGYA, an exhibition of Indian systems of medicine and herbal and traditional medicines. The Member Secretary of the APTMNET Executive Council strongly encouraged all countries to participate in this exhibition and requested member countries to nominate two persons each and to demonstrate their national technologies/herbal products, etc. A delegation from the APTMNET main station in China participated in AROGYA 2004 and displayed traditional medicine products and technologies from China.

### **Environmental technology**

International Seminar on Ecological Construction and Strategies for Soil and Water Conservation for Sustainable Agricultural Development, Guang'an City, China, 22-24 June 2004 - This seminar was organized by the Ministry of Science and Technology, Government of China, the Sichuan Provincial Science and Technology Department, the Sichuan Academy of Agriculture Science and the Guang'an Municipal People's Government in cooperation with APCTT in response to a proposal made by China at the Technical Advisory Committee meeting held in early 2004. The objective of the seminar was to disseminate and share information on ecological construction and strategies for controlling soil and water losses in overfarmed land and ecologically fragile areas.

The seminar was important and timely in view of the fact that soil and water conservation and ecological construction had become global concerns. The three-day seminar also included an on-site visit to demonstration projects of ecological construction and soil and water conservation. Since most Asian countries are faced with the critical task of controlling soil and water erosion, this seminar provided an opportunity for countries of the region to share their experiences and knowledge in ecological construction and soil and water conservation.

Experts from 13 countries of the region, Bangladesh, Cambodia, India, Iran (Islamic Republic of), Malaysia, Mongolia, Myanmar, Nepal, Pakistan, the Philippines, Sri Lanka, Thailand and Viet Nam, participated in this programme. TCDC funding support was provided for the travel of experts from the least developed countries and countries with economies in transition.

### **Technology management and innovation**

A GMS/Regional Workshop on the Promotion of International Management Standards for ICT Development was held in New Delhi from 17 to 19 August 2004, in collaboration with the Information, Communication and Space Technology Division of ESCAP. It was attended by representatives of the following countries: Bangladesh, Cambodia, China, India, Kazakhstan, Lao People's Democratic Republic, Mongolia, Myanmar, Sri Lanka, Thailand and Viet Nam.

This workshop was a follow-up to two earlier activities organized by ESCAP under the Indo-China phase VII project on IT programmes for private sector development in the Greater Mekong Subregion (GMS), namely, "ICT needs assessment and readiness in the GMS" and "IT-enabling legal frameworks for the GMS". To facilitate a greater exchange of subregional and regional experience in this important area of ICT-related management standards, other countries of the Asian and Pacific region were invited to participate in this programme.

ESCAP has been given a clear mandate to assist its members in building an information society through capacity-building in ICT-related international management standards. Thus, the overall objective of the workshop was to promote an awareness and appreciation of how new and emerging international management standards such as ISO 9000 (quality management standards), ISO 17799 (information security management systems) and the capability maturity model could enhance competitiveness and quality in the ICT software and hardware sectors in the GMS and other countries of the region while ensuring the security, privacy and reliability of networked information. Industry-wide standardization at the global level has become vitally important, especially with respect to high-tech industries, including the ICT sector.

The workshop helped the participants to understand the importance of implementing international management standards to enhance the market competitiveness of the ICT industry in their respective countries as international trade was now, more than ever, predicated on the availability of high-quality goods and services. The recommendations that emerged from the deliberations during the workshop will help ESCAP and APCTT to further assist the participating countries and facilitate regional cooperation in the field of ICT.

APCTT has received funding from the Government of India to promote national innovation systems in the member countries. Through this fund, APCTT will assist member countries in their strategies to promote NIS by providing consultancy services and sharing good practices. For this purpose, APCTT will construct an online and offline network on NIS. The network will mainly interconnect government agencies and research institutes promoting the development of national innovation systems. At a one-day seminar held in Dhaka on 30 November 2004 in conjunction with the Governing Board's session, the participants exchanged "good practices" in areas such as R&D policies and programmes, operational framework of government-supported research institutions, promotion of private sector R&D, public-private partnerships and science and technology infrastructure development towards NIS. The setting up of an online and offline network was discussed during the seminar.

The INSME-WASME Training Programme on Management of Innovation and Technology Transfer for SMEs was held in New Delhi from 12 to 15 October 2004. It was organized at APCTT by INSME (International Network for SMEs), WASME (World Association for Small and Medium

Enterprises) and APCTT. The Centre has been working with INSME and WASME over the years to assist SMEs. Thirty-five participants from Bahrain, Botswana, India, Italy, Kazakhstan, Kenya, Palestine, the Republic of Korea, Romania and South Africa participated in the training programme, which was divided into six sessions. The topics covered were: managing the technology transfer process, managing technologies and innovations in SMEs, technology audit, legal aspects of technology transfer, industry linkages and commercialization of technologies and financial instruments for enterprise innovation.

### **Projects being implemented by APCTT**

- **Strengthening of APCTT** - The Government of the Republic of Korea provided funding in 2003 to support the institutional and operational costs of the Centre over a two-year period. This funding is supporting the operation of APCTT and activities relating to realigning/redirecting the Centre's programmes in line with recommendations of the evaluation undertaken in early 2003. As per the recommendation of the Technical Advisory Committee at its nineteenth meeting and the Governing Board at its eighteenth session, a planning workshop was held in Bangkok on 7 and 8 April 2004 to draw up a work plan for the Centre in line with the thematic priorities of ESCAP and taking into account the recommendations of the evaluation of the Centre and the needs of member countries. The work plan drawn up at the planning workshop was presented to the Governing Board at an extraordinary meeting held on 9 April 2004 and endorsed at the nineteenth session of the Governing Board. Funding for the planning workshop and the extraordinary meeting of the Governing Board was provided by the Government of the Republic of Korea under the above-mentioned project.
  
- **Promoting a technology transfer network for SMEs in Asia and the Pacific** - The project, "Promotion of the technology transfer network for small and medium-scale enterprises in the Asia-Pacific region", funded by the Government of Germany is aimed at enhancing the capacity of institutions/intermediaries in member countries to deliver technology transfer services in order to contribute to the improvement of the competitiveness of SMEs and accelerate the adoption of environmentally sound technologies. This project represents the consolidation phase of a project under the same title implemented earlier by the Centre. To plan a realistic and effective programme of work under this project, a planning workshop was held in New Delhi on 26 and 27 August 2004. It was attended by 16 participants from China, India, Malaysia, the Republic of Korea, Thailand and Viet Nam and staff of ESCAP and APCTT. The planning matrix designed during the workshop will be the basis for the implementation of this project.

**Financial and administrative issues** - APCTT's operations are funded from two main sources: institutional support from the member countries and contributions for technical cooperation projects provided by the various donors. Through the contributions from member countries and donors, the Centre has been able to implement many successful projects in the area of technology transfer. However, over the years contributions from member countries have declined, creating financial instability for the Centre. Of the US\$ 294,222.10 that the Centre received in 2004 from member countries, US\$ 202,448.80 was provided by the host country, India. The balance of US\$ 91,773.30 was provided by nine other countries in the region. It is estimated that an amount of US \$ 550,000 is required on an annual basis to maintain a core group of three Professionals, including the Director. Fortunately, with the institutional and technical cooperation support received from the Republic of Korea, the services of a Director will be covered for a period of two years. However, to enable the Centre to deliver the necessary services to the member countries on a sustainable basis, it is imperative to have on board a core group of at least two Professional staff. Member countries are therefore urged to provide institutional support at or above the indicative levels, i.e., an annual contribution of US\$ 20,000 for developing countries and US\$ 5,000 for least developed countries, to enable the Centre to deliver the necessary services to the member countries on a sustainable basis. Member countries are also requested to assign experts and senior personnel in the field of technology transfer to work at APCTT, as non-reimbursable loan experts. This arrangement would enable the experts to benefit from the work experience at APCTT on their return to their home countries and foster future cooperation with APCTT and other member countries.

*Annex II*

**PROGRAMME OF ACTIVITIES FOR 2005**

**Expected accomplishment of related ESCAP subprogramme**

Improved application and promotion of information, communication and space technology by Governments and stakeholders in planning and implementing socio-economic development policies and programmes, towards the achievement of the internationally agreed development goals, including those contained in the United Nations Millennium Declaration.

***Output A: Governing Board and Technical Advisory Council meetings***

**Estimated cost:** US\$ 25,000

**Anticipated source of funds:**

- APCTT Joint Contribution Account

***Output B: Target group is knowledgeable about and able to apply new and emerging technologies including environmentally sound technologies.***

<b><u>Description of activity</u></b>	<b><u>Cost (US\$)</u></b>	<b><u>Anticipated sources of funds</u></b>
Establish and promote the Biotechnology Information Network for Asia (BINASIA)	30,000	GTZ/Republic of Korea (KRIBB)
Disseminate information through the Value Added Technology Information Service (VATIS) and other publications/periodicals	47,000	Government of India Trust Fund/GTZ
Training of trainers on waste management, including hazardous waste	In the pipeline	Environment Canada

***Output C: Target group has improved skills in managing traditional technologies/industrial clusters.***

<b><u>Description of activity</u></b>	<b><u>Cost (US\$)</u></b>	<b><u>Anticipated sources of funds</u></b>
Establish the Asia-Pacific Traditional Medicine and Herbal Technology Network (APTMNET)	15,000	GTZ
Expand and improve the Asia-Pacific Bamboo Network	10,000	GTZ
Set up demonstration centres in selected countries for enhancing the export competitiveness of tropical fruits	In the pipeline	Common Fund for Commodities

**Output D: Target group is able to deliver value added technology management services to SMEs.**

<u>Description of activity</u>	<u>Cost (US\$)</u>	<u>Anticipated sources of funds</u>
Evaluate and upgrade “technology4sme” and “Tech-Mart” regional and national technology transfer portals	45,000	GTZ
Evaluate APCTT publications and periodicals as well as technology transfer packages	7,000	Government of India Trust Fund/GTZ
Develop a regional business e-coach portal “Business-asia.net”	23,000	GTZ

**Output E: Technology-specific regional networks are in place.**

<u>Description of activity</u>	<u>Cost (US\$)</u>	<u>Anticipated sources of funds</u>
Develop and establish an IT-based Business Circle portal	3,000	GTZ
Establish a national innovation system regional network	55,000	Government of India

**Other:**

**APCTT administrative costs:**

**Estimated cost:** US\$ 175,000

**Anticipated sources of funds:**

- Indian Government contribution
- APCTT Joint Contribution Account

*Annex III*

**PROGRAMME OF WORK, 2006-2007**

<b>Subprogramme objective:</b>	To improve access to, and the development, transfer and application of, information, communication and space technology in order to maximize the benefits of globalization.
<b>Expected accomplishment b:</b>	Enhanced national capacities to apply information, communication and space technology in planning and implementing socio-economic development programmes, including for the promotion of gender equality
<b>Intermediate result b4:</b>	SMEs in member countries are able to access and use technologies through APCTT networks (TECH4SME, APTMNET, BINASIA).
<b>Output:</b>	<p>Servicing of intergovernmental and expert bodies (RB/XB):</p> <ul style="list-style-type: none"> <li>(i) Economic and Social Commission for Asia and the Pacific: Parliamentary documentation: report on activities of APCTT (2006, 2007)</li> <li>(ii) Assistance to representatives, rapporteurs: APCTT Governing Board (2006-2007).</li> </ul>
<b>Output:</b>	<p>Other substantive activities (regular budget/extrabudgetary):</p> <ul style="list-style-type: none"> <li>(i) Recurrent bimonthly publications: <i>Asia-Pacific Tech Monitor</i> (XB) VATIS on <i>Waste Management</i> (XB) VATIS on <i>Non-conventional Energy</i> (XB) VATIS on <i>Food Processing</i> (XB) VATIS on <i>Biotechnology</i> (XB) VATIS on <i>Ozone Layer Protection</i> (XB)</li> <li>(ii) Booklets, fact sheets, wall charts, information kits: Technology transfer guidelines (XB) Special booklets (XB): National innovation systems S&amp;T and R&amp;D institutions in the Asia-Pacific region, Guidebook on business start-up and operations in countries of the Asia-Pacific region (XB)</li> <li>(iii) Audio-visual resources: APCTT website (continuous, XB); Business e-Coach CD-ROM (XB).</li> </ul>
<b>Output:</b>	<p>Technical cooperation (regular budget/extrabudgetary):</p> <ul style="list-style-type: none"> <li>(i) Advisory services on: technology transfer for SMEs and national innovation systems (XB);</li> <li>(ii) Training courses, seminars and workshops: Regional seminars/workshops related to technology transfer (2 in 2006, 2 in 2007, 40 participants each) (XB);</li> <li>(iii) Field projects: National seminars on national innovation systems (2 in 2006, 2 in 2007) (XB).</li> </ul>

*Annex IV*

**CONTRIBUTIONS, 2004**

*Regular annual contributions*

<b>Country/organization</b>	<b>Contributions in 2004 (US\$)</b>
Bangladesh	13,984.81
China	19,980.00
India*	202,448.80
Malaysia	15,000.00
Nepal	4,500.00
Pakistan	5,000.00
Philippines	4,308.49
Republic of Korea	10,000.00
Thailand	15,000.00
Viet Nam	4,000.00
<b>Total</b>	<b>294,222.10</b>

*Extrabudgetary contributions*

<b>Country/organization</b>	<b>Project/activity</b>	<b>Contribution (US\$)</b>
Republic of Korea	Strengthening of APCTT	272,969.97**
Germany	Promotion of the technology transfer network for small and medium-scale enterprises in the Asia-Pacific region	22,397.10***
India*	Promotion of national innovation systems for APCTT member countries	104,343.11 (project document under preparation)

\* Equivalent in local currency (Indian rupees).

\*\* The entire project amounts to US\$ 515,000 for two years.

\*\*\* The entire project amounts to 430,000 euros for two years.

*Annex V*

**REVISED DRAFT STATUTE OF THE ASIAN AND PACIFIC CENTRE  
FOR TRANSFER OF TECHNOLOGY**

*(as endorsed by the Governing Board)*

*Establishment*

1. The Asian and Pacific Centre for Transfer of Technology (hereinafter referred to as “the Centre” or “APCTT”), established on 16 July 1977 pursuant to Economic and Social Commission for Asia and the Pacific resolutions 159 (XXXI) and 164 (XXXII), shall continue in existence under the terms of this Statute.
2. The membership of APCTT is identical to the membership of the Economic and Social Commission for Asia and the Pacific (hereinafter “ESCAP” or “the Commission”).
3. APCTT has the status of a subsidiary body of ESCAP.

*Objectives*

4. The objectives of APCTT are to assist the members and associate members of ESCAP through strengthening their capabilities to develop and manage national innovation systems; develop, transfer, adapt and apply technology; improve the terms of transfer of technology; and identify and promote the development and transfer of technologies relevant to the region.
5. The Centre will achieve the above objective through undertaking the following functions:
  - Research and analysis of trends, conditions and opportunities;
  - Advisory services;
  - Dissemination of information and good practices;
  - Networking of key stakeholders;
  - Training of national personnel, particularly national scientists and policy analysts.

*Status and organization*

6. APCTT shall have a Governing Council (hereinafter referred to as “the Council”), a Director and staff, and a Technical Committee.
7. APCTT is located in New Delhi, India.
8. The activities of APCTT shall be in line with relevant policy decisions adopted by the General Assembly, the Economic and Social Council and the Commission. APCTT shall be subject to the financial and staff regulations and rules of the United Nations and the applicable administrative instructions.

*Governing Council*

9. The Centre shall have a Governing Council consisting of a representative designated by the Government of India and not less than eight representatives nominated by other members and associate members of ESCAP elected by the Commission. The members and associate members elected by the Commission shall be elected for a period of three years but shall be eligible for re-election. The Executive Secretary or his/her representative shall attend meetings of the Council.

10. The Director of the Centre shall serve as Secretary of the Council.

11. Representatives of (a) States that are not members of the Council, (b) United Nations bodies and specialized and related agencies, (c) such other organizations as the Council may deem appropriate as well as experts in fields of interest to the Council may be invited by the Executive Secretary to attend meetings of the Council.

12. The Council shall meet at least once a year and may adopt its own rules of procedure. Sessions of the Council shall be convened by the Executive Secretary of ESCAP, who may propose special sessions of the Council at his/her own initiative and shall convene such special sessions at the request of a majority of Council members.

13. A quorum for meetings of the Council shall be a majority of its members.

14. Each member of the Council shall have one vote. Decisions and recommendations of the Council shall be made by consensus or, where this is not possible, by a majority of the members present and voting.

15. The Council shall, at each regular session, elect a Chairman and Vice-Chairman. They shall hold office until the next regular session of the Council. The Chairman or, in his/her absence, the Vice-Chairman shall preside at meetings of the Council. If the Chairman is unable to serve for the full term for which he/she has been elected, the Vice-Chairman shall act as Chairman for the remainder of that term.

16. The Council shall review the administration and financial status of APCTT and the implementation of its programme of work. The Executive Secretary shall submit an annual report, as adopted by the Council, to the Commission at its annual sessions.

*Director and staff*

17. APCTT shall have a Director and staff, who shall be ESCAP staff members appointed under the appropriate United Nations regulations, rules and administrative instructions. The Director shall be appointed in a manner consistent with United Nations regulations and rules.

18. The Director shall be responsible to the Executive Secretary of ESCAP for the administration of APCTT and implementation of its programme of work.

*Technical Committee*

19. APCTT shall have a Technical Committee consisting of experts from members and associate members of ESCAP, intergovernmental and non-governmental organizations. Members of the Technical Committee shall be appointed by the Director in consultation with the Executive Secretary.
20. The Technical Committee shall be responsible for advising the Director on the formulation of the programme of work and on other technical matters concerning the operations of APCTT.
21. Reports of meetings of the Technical Committee, with the Director's observations with respect thereto, shall be submitted to the Council at its next session.
22. The Chairman of the Technical Committee shall be elected by the Committee itself at each meeting.

*Resources of the Centre*

23. All members and associate members of ESCAP should be urged to make a regular annual contribution to the operations of the Centre. The United Nations shall administer a joint contribution trust fund in which these contributions shall be deposited.
24. APCTT will endeavour to mobilize sufficient resources to support its activities.
25. The United Nations shall maintain separate trust funds for voluntary contributions for technical cooperation projects or other extraordinary voluntary contributions for activities of APCTT.
26. The financial resources of APCTT shall be administered in accordance with the United Nations Financial Regulations and Rules.

*Amendments*

27. Amendments to the present Statute shall be adopted by the Commission.

*Matters not covered by this Statute*

28. In the event of any procedural matter arising that is not covered by this Statute or rules of procedure adopted by the Governing Council under paragraph [12] of this Statute, the pertinent part of the rules of procedure of the Economic and Social Commission for Asia and the Pacific shall apply.

*Entry into force*

29. The present Statute shall enter into force on the date of its adoption by the Commission.

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