



ITTO

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1. ORGANIZATION, ADMINISTRATION AND SUMMARY OF ACTIVITIES

1.1 Mission Statement

"The ITTO facilitates discussion, consultation and international cooperation on issues relating to the international trade and utilization of tropical timber and the sustainable management of its resource base."

1.2 Membership

This was the second year of operation of the International Tropical Timber Agreement, 1994, which came into force on 1 January 1997. The previous Agreement, the ITTA, 1983, had been in force since April 1985. Membership of the Council increased by four (4) in 1998, following the accession of the Governments of Venezuela on 2 March, Italy on 25 June, Suriname on 24 August, and Trinidad & Tobago on 29 December 1998. This brought the total membership to fifty-three (53) countries (including the European Union), comprising twenty-nine (29) Producers and twenty-four (24) Consumers. The fifty-three (53) Members of the ITTO listed below accounted for over 80% of the world's closed moist tropical forest and more than 90% of the international trade in tropical timber.

CURRENT MEMBERSHIP OF ITTO (under ITTA, 1994)

31.12.1998

PRODUCERS

CONSUMERS

Africa

Cameroon
Central African Republic
Côte d'Ivoire
Dem. Rep. of Congo
Gabon
Ghana
Liberia
Rep. of Congo
Togo

Australia
Canada
China
Egypt

European Union#

-Austria
-Belgium/Luxembourg
-Denmark
-Finland
-France
-Germany
-Greece
-Italy
-Netherlands
-Spain
-Sweden
-United Kingdom

Asia & Pacific

Cambodia
Fiji
India
Indonesia
Malaysia
Myanmar
Papua New Guinea
Philippines
Thailand

Other Europe:

-Norway
-Switzerland

Latin America

Bolivia
Brazil
Colombia
Ecuador
Guyana
Honduras
Panama
Peru
Suriname
Trinidad & Tobago
Venezuela

Japan
Nepal
New Zealand
Republic of Korea
United States of America

A Member in its own right

The status of Members as at 31 December 1998 in terms of the ITTA, 1994, is summarized in Annex 2.

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1.3 International Tropical Timber Council

1.3.1 Officers of the Council

At its Twenty-third Session, the Council elected Ms. Stephanie Caswell (U.S.A.) as its Chairperson and Mr. Jean William Sollo (Cameroon) as its Vice-Chairperson for 1998. Decisions on both of these appointments were unanimous. During the Twenty-fourth Session in Libreville, Gabon, Mr. David Drake (Canada) served as Spokesperson for the Consumer Group while Ms. Barbara Briglia Tavora (Brazil) served as Spokesperson for the Producers. At the Twenty-fifth Session in Yokohama, Mr. Marco Braeken (Netherlands) and Dr. Untung Iskandar (Indonesia) served as Spokespersons for the Consumer and Producer Groups respectively.

1.3.2 Twenty-fourth Session of the Council

The Twenty-fourth Session of the ITTC was held in Libreville, Gabon, from 20 to 28 May 1998. The Session was attended by 40 ITTO Members and 22 Observers from States, U.N. bodies and specialized agencies, inter-governmental and non-governmental organizations, the last-named representing conservation groups and timber trade associations.

The Session was opened by the Chairperson, Ms. Stephanie Caswell (U.S.A.), and received statements from H.E. Dr. Paulin Obame N'Guema, Prime Minister of Gabon, H.E. Mr. Joseph Gnomba, Minister of Environment, Water, Forestry and Fisheries of the Central African Republic, chairperson of the African Timber Organization (ATO) and H.E. Mr. André Dieudonné Berre, Minister of Water and Forest Resources, Gabon.

The Session adopted nine Decisions. Among the Decisions adopted by the Council were the Organization of Work under the ITTA, 1994; Criteria and Indicators for Sustainable Management of Natural Tropical Forests; Matters Related to Article 16 of the ITTA, 1994; Streamlining the Work of the Committees; Downturn in the International Tropical Timber Market; Cooperation between the International Tropical Timber Organization (ITTO) and the African Timber Organization (ATO); Technical Consultation on Forest Fire; and the adoption of the Libreville Action Plan.

The Session was preceded for the second time by a meeting of the Informal Advisory Group (IAG) set up to assist the Council organize its work, and also a meeting of the Informal Working Group to evaluate reports of on-going and completed projects before such reports were submitted to the Committees.

Voluntary contributions to the Special Account announced included US\$10,312,000 from Japan, US\$300,000 from the Republic of Korea, and US\$20,000 from Australia. The Netherlands and the United States of America pledged US\$100,000 each to the Bali Partnership Fund.

1.3.3 Twenty-fifth Session of the Council

The Twenty-fifth Session of the Council was held in Yokohama, Japan, from 3 to 9 November 1998. The Session was attended by 41 ITTO Members and 18 Observers from States, U.N. bodies and specialized agencies, inter-governmental and non-governmental organizations, the last-named representing conservation groups, academic institutions and timber trade associations among others.

The Session was opened by the Chairperson of the ITTC, Ms. Stephanie Caswell (U.S.A.) and was honoured with the attendance of H.E. Mr. Jean-Calude Kouassi, Minister of Environment and Forests, Republic of Côte d'Ivoire; H.E. Hon. Cletus Avoka, Minister of Lands and Forestry, Republic of Ghana; H.E. Mr. Olivier Hugues Rajohnson, Minister of Water and Forests, Republic of Madagascar; Mr. Rodolfo Masuda Matsuura, Vice-Minister of Agriculture, Peru; Mr. Jorge Viana, Governor-Elect of the State of Acre, Brazil; and Mr. Minoru Shibuya, Deputy Director -General, Economic Affairs Bureau, Ministry of Foreign Affairs, Japan.

Decisions adopted by Council at the Session included Organization of Work under the ITTA, 1994 for the establishment of a document network system for the protection and electronic distribution of "restricted" ITTO documents to Members; further Strengthening and Streamlining the Work of the Committees; authorizing the Executive Director to enter into consultation with relevant organizations to enhance contributions to the Intergovernmental Forum on Forests in the area of trade and sustainable forest management; endorsing the Work Programme for 1999; and operationalizing the Bali Partnership Fund. The Session was preceded for the third time by a meeting of the Informal Advisory Group (IAG).

Switzerland announced a voluntary contribution of US\$1.5 million to the Special Account, and a pledge of 50 percent of the interest earned from their contribution to the Special Account into the Bali Partnership Fund. Switzerland also opened a new window in the ITTO-Swiss Trust Fund and pledged an amount of US\$500,000 to the new window of the bilateral trust fund to complement funding of Bali Partnership Fund projects of regional or global concern. The United States of America restated its pledge of US\$100,000 to the Bali Partnership Fund made at the Twenty-fourth Session in Libreville.

1.4 The Committees

1.4.1 Officers of the Committees

During 1998 Dr. Roszehan Mohd. Idrus (Malaysia) and Dr. Kwame Asumadu (Australia) served as Chairperson and Vice-Chairperson respectively of the Committee on Economic Information and Market Intelligence.

Mr. Anoh Emile Jean Claude (Côte d'Ivoire) served as Chairperson of the Committee on Reforestation and Forest Management for 1998. Mr. Walter Dunn (U.S.A.) was elected as Vice-Chairperson of the Committee, but unfortunately was indisposed and unable to attend any Sessions of the Committee.

Ms. Aulikki Kauppila (Finland) served as Chairperson of the Committee on Forest Industry for 1998. Mr. Clayton Hall (Guyana) was elected as Vice-Chairperson of the Committee, however, could not attend the Committee Sessions in 1998.

Mr. Toshikatsu Aoyama (Japan) served as Chairperson of the Committee on Finance and Administration for 1998. Ing. Angel Murillo Reina (Honduras) served as Vice-Chairperson of the Committee. He was, however, unable to attend the Fourth Session of the Committee in Yokohama.

1.4.2 Associated Sessions of the Committees

Associated Sessions of the Committees were held in conjunction with the Twenty-fourth and Twenty-fifth Sessions of the Council.

The Annual Market Discussions, held under the auspices of the Committees in Joint Session at their Twenty-second Sessions, addressed the theme "Africa in the Context of World Trade". The Moderator was Mr. Jean Jacques Landrot (ATIBT). The nine speakers considered trade flows, market trends and prices, trade and industry developments from European, North American and Asian perspectives. There were special papers dealing with Ghana and Gabon's timber trade and industry developments and trends.

The Committee on Economic Information and Market Intelligence considered 17 on-going projects and two pre-projects in 1998. Six (6) new project proposals and one (1) pre-project had been considered by the committee for approval and funding. Out of the six (6) project proposals one was not recommended by the committee. The Committee also recommended for funding and implementation an activity in the area of "Development of a joint forest statistics questionnaire". The Committee also reviewed the status of 13 projects and one pre-project which had been approved at previous Sessions of the Committee. It also included in its work programme an activity "To monitor developments relating to timber certification and the proposed listing of internationally traded timber species in the Appendices of CITES". The Committee recommended that ITTO make more efficient use of the homepage and electronic communication for document distribution and public relations.

The Committee on Reforestation and Forest Management in 1998 recommended for approval and implementation 32 projects and 6 pre-projects. The Committee also reviewed 71 reforestation and forest management projects and 11 pre-projects which were under implementation. It received the report of ten (10) Completed projects and 9 pre-projects and was presented with the report on the ITTO Borneo Biodiversity Expedition and Mangrove Management in Colombia

The Committee on Forest Industry in 1998 recommended for approval, the implementation of 7 project proposals and 5 pre-project proposals, an extension of the ITTO Network for Information Sharing and Project Support and urged Member countries to make full use of consultancy services available under PD73/89 in order to bring project proposals to the standard required by ITTO.

The Committee also reviewed the report of one completed pre-project and 4 projects and discussed the results of 2 ex-post evaluations. It stressed the importance of information sharing in the area of non-wood forest products noting that several major international organizations such as CIFOR, ECE Timber Committee, FAO and IFF had carried out considerable work in the field of non-wood forest products.

The Committee on Finance and Administration in 1998 discussed contributions to the administrative budget, the status of the administrative account, the resources of the Special Account and the Bali Partnership Fund, as well as the report of the audited account for the Financial Year 1997. The Committee also approved the transfer of an amount of US\$210,713.79 from the "General programme support component" to the "component of translation costs" to eliminate the deficit incurred as at the end of the financial year 1997. The Committee also approved the appointment of Price Waterhouse, Tokyo, to audit the accounts of the Organization for the financial year 1998.

A total of 279 fellowship applications from both producer and consumer countries were considered by the Fellowship Panel in 1998. The Panel recommended the approval of 55 fellowships for a total of US\$270,000. Out of the 55 approved applications 49 came from producer countries and 6 from consumer countries.

1.5 Informal Groups

1.5.1 Informal Advisory Group (IAG)

The IAG established under Decision 3(XXIII) held 2 meetings in 1998. The first meeting was held on 19 May 1998. The meeting comprised the Chairperson and Vice-Chairperson of the Council, the spokespersons for the Producer and the Consumer groups, the 4 Committee Chairpersons and the Executive Director. The IAG recommended the following issues for the consideration of the Council during the Twenty-fourth Session of the Council: the ITTO Action Plan and Mission Statement; the Revision of the ITTO Criteria and Indicators; the Establishment of Guidelines on Intellectual Property Rights; and Matters Related to Article 16 of the ITTA, 1994 regarding the appointment of the Executive Director. The IAG also recommended that urgent action be taken to put the Bali Partnership Fund into operation and that rules be developed regarding the management of the Fund and project eligibility.

The second meeting of the IAG was held on 2 November 1998, a day prior to the Twenty-fifth Session of the Council. The IAG recommended the following issues for the consideration of the Council: Further Means of Reducing Costs of Document Preparation, Translation, and Distribution; Further Streamlining the Work of the Committees; Operationalizing the Bali Partnership Fund; ITTO Co-operation with the African Timber Organization (ATO); ITTO's Contribution to the Work of the Inter-Governmental Forum on Forests (IFF) and to the implementation of the IFF proposals for action within its mandate.

1.5.2 Informal Working Group (IWG) on Evaluation of Reports from On-going and Completed Projects and Pre-Projects

The IWG comprising 3 consumer and 3 producer Members met for the second time from 16 to 18 May 1998, three days prior to the Twenty-fourth Session of the Council. The IWG recommended that project proposals should include a short annex with information on the relationship of the implementing agency to ITTO and that should be considered in the revision of project formulation manual. The IWG also recommended that the presentation of reports be harmonized among the three Committees, including the use of a standard format which would provide information on donor contributions, project history, reporting by implementing agencies, etc.

1.6 Summary of Projects, Pre-Projects and Other Approved Activities

Table 1. Summary of Projects, Pre-projects, and other Approved Activities Funded in 1998 (in US\$)

	PROJECTS		PRE-PROJECTS		ACTIVITIES		TOTAL	
	No.	ITTO Funding	No.	ITTO Funding	No.	ITTO Funding	No.	ITTO Funding
Economic Information and Market Intelligence	1	478,080	1	40,000	--	--	2	518,080
Reforestation and Forest Management	22	11,336,133	5	290,830	--	--	27	11,626,963
Forest Industry	6	1,507,812	5	498,072	--	--	11	2,005,884
Council	--	--	--	--	8	771,495	8	771,495
TOTAL	29		11		8	771,495	48	14,922,422

Notes: "Activities" approved by the Council include *inter alia* the bi-annual Expert Panels for the Technical Appraisal of Project Proposals, Panel on Criteria and Indicators, a Study on the Market Downturn of Tropical Timbers, Technical Consultation on Forest Fires, Publication of Libreville Action Plan and Criteria and Indicators as well as an Expert Panel for Streamlining the Work of the Committees.

Table 2. Projects, Pre-Projects and Other Approved Activities Funded by the Organization 1987-1998 {ITTC(II) - ITTC(XXV)} (In US \$)

WORK	STATUS	No.	TOTAL BUDGET	ITTO FUNDING
Projects	Completed	146	82,321,320.47	60,405,909.65
	Operational	104	110,272,554.81	83,002,618.95
	Pending Contract	14	7,702,127.00	7,343,173.00
	Sub-Total	264	202,296,002.28	150,751,701.6
Pre-projects	Completed	86	9,511,897.25	8,868,480.75
	Operational	16	1,418,568.50	1,215,583.50
	Pending Contract	9	761,978.00	672,978.00
	Sub-Total	111	11,692,443.75	10,757,042.25
Approved Activities	Completed	63	10,911,395.00	10,911,395.00
	Operational	11	1,252,345.00	1,252,345.00
	Pending Contract	-	-	-
	Sub-Total	74	12,163,740.00	12,163,740.00
TOTALS		449	\$ 224,152,186.00	\$ 173,672,483.80

2. POLICY ISSUES

A number of policy development issues were considered by the ITTC in 1998. These issues included: Technical Consultation on Forest Fire and defining a niche role for ITTO in Forest Fire Prevention and Management; Development of Criteria and Indicators for Sustainable Management of Natural Tropical Forests; Revision of the 1990 ITTO Action Plan in response to the new International Tropical Timber Agreement, 1994 (ITTA, 1994) which entered into force on 1 January 1997; Revision of Guidelines and Manuals relating to Project Formulation and Implementation; Assessing the Extent and Implications of the Market Downturn for Tropical Timber; and Promotion of Market Access Opportunities for International Trade in Tropical Timber.

2.1 Technical Consultation on Forest Fire – Decision 8 (XXIV)

Seriously concerned about the disastrous and frequent forest fires in Southeast Asia and other tropical regions, the ITTC adopted Decision 8(XXIV), recognizing the need for urgent international efforts on the issue of forest fire and reaffirming the obligations and commitment of all ITTO Members to the objectives of ITTA, 1994 and to "Year 2000 Objective".

Expert Missions were undertaken to Indonesia and Malaysia from 8 to 20 September 1998 and an International Cross-sectoral Forum on Forest Fire Management in Southeast Asia was hosted by the Government of Indonesia from 7 to 8 December 1998. The Cross-sectoral Forum was jointly sponsored by the Japan International Cooperation Agency (JICA) and the International Tropical Timber Organization. The Mission reviewed occurrences of several forest fires which had attracted world attention in recent past and concluded that the forest fires in Indonesia were characterized by conditions, often emanating from negligence and cited the following causes:

- (i) large scale logging, leaving a high percentage of residues in the forest, which became highly combustible in drought years;
- (ii) land clearing practices of plantation companies, shifting cultivators and small holders;
- (iii) careless use of fire by graziers, non-wood forest products collectors and campers;
- (iv) intentional fires for staking land claims or for other reasons.

Other contributory factors cited by the Mission included;

- weaknesses in policies, legislation and their implementation/enforcement;
- reluctance to adopt zero-burn techniques of land preparation on the part of land owners, or low-impact logging on the part of concessionaires;
- inadequacies in forest fire management;
- poverty, social conflicts, and lack of incentives for the entire community to participate in forest fire protection; and
- institutional inability to learn lessons from past experience.

The Mission mentioned the lack of infrastructure, inadequate trained personnel, insufficient equipment and weaknesses in enforcement of rules and regulations as major constraints in forest fire management in Indonesia.

In defining a niche for ITTO in the context of forest fire management, the Mission identified the following areas:

- assistance for preparing a national forest fire plan;
- rehabilitation planning for fire affected forest areas;
- pilot demonstration and practical training in forest fire management;
- community participation in forest fire management;
- manuals for forest fire management activities;
- support for selected components of capacity building;
- expanding the scope of the model forest management area project in Sarawak to include forest fire management;
- support to and collaboration with national, regional and global incentives on technology development;
- building strategic partnerships with relevant agencies.

The International Cross-sectoral Forum on Forest Fire management in Southeast Asia held from 7 to 8 December 1998 made recommendations covering: strengthening of institutions, policy reforms, rationalization of laws and regulations, planning and coordination, capacity building, technological innovations, research and extension, people's participation, comprehensive and rational system of incentives, awareness raising, resource mobilization and so on. It highlighted the importance of measures to prevent forest fires, waste-free harvesting, preparedness for fire suppression, control of transboundary pollution, rehabilitation of areas affected by fire, promotion of forest-based enterprises for generation of additional employment and income, and infrastructure development.

2.2 Development of Criteria and Indicators for Sustainable Management of Natural Tropical Forests

At its Twenty-fourth Session in Libreville, Gabon, the Council approved the new Criteria and Indicators for Sustainable Management of Natural Forests [ITTO Policy Development Series No. 7]. This updated the ITTO Criteria for the Measurement of Sustainable Tropical Forest Management which was published in March 1992. It benefited from the experiences gained by tropical countries in implementing the ITTO Guidelines for the Sustainable Management of Natural Tropical Forests and ITTO Criteria for the Measurement of Sustainable Tropical Forest Management.

Since ITTO undertook its pioneering work in the early 1990s, several international and regional initiatives on criteria and indicators for sustainable forest management have emerged, stemming from the UN Conference on Environment and Development held in Rio de Janeiro in 1992. In view of these developments, the ITTC decided that the time had come to update ITTO's Criteria and Indicators in order to make them more operational and useful. The original ITTO Criteria and Indicators focused primarily on sustainable management for the production of timber while the updated version covered the full range of forest goods and services, including biological diversity and other non-timber values.

The Criteria and Indicators would provide member countries with an improved tool for assessing changes and trends in forest conditions and management systems at the national and forest management unit levels. By identifying the main elements of sustainable forest management, the Criteria and Indicators provide a means of assessing progress towards the ITTO Year 2000 Objective – "To enhance the capacity of members to implement a strategy for achieving exports of tropical timber and timber products from sustainably managed sources by the Year 2000", as well as a tool for tracking progress into the next century.

Seven Criteria had been identified as essential elements of sustainable forest management.

Criterion 1: Enabling conditions for Sustainable Forest Management;

Criterion 2 & 3: Forest Resource Security and Forest Ecosystem Health and Conditions

Criterion 4 to 7: Various goods and services provided by the forest, including flow of Forest Produce, Biological Diversity, Soil and Water as well as Economic, Social and Cultural Aspects.

The Indicators provide significant tools for assessing progress towards sustainable forest management. The Indicators are also compatible with those being requested for FAO's Forest Resources Assessment (FRA – 2000).

2.3 ITTO Libreville Action Plan 1998-2001

At its Twenty-fourth Session in Libreville, the Council approved the new ITTO Libreville Action Plan 1998-2001 [ITTO Policy Development Series No 8]. This Action Plan which replaced the Action Plan of 1990, had been prepared in response to the new International Tropical Timber Agreement, 1994 (ITTA, 1994), which entered into force on 1 January 1997. The new Action Plan elaborated a strategy for advancing ITTO's objectives, operational activities and statistical work as set forth in the ITTA, 1994. It therefore provided guidance on the overall direction and priorities of the Organization, both in terms of policy initiatives and project activities.

The goals of the Libreville Action Plan are:

Economic Information and Market Intelligence:

Goal 1: Improve transparency of the international timber market.

Goal 2: Improve marketing and distribution of tropical timber exports from sustainable managed sources.

Goal 3: Improve market access for tropical timber exports from sustainably managed sources.

Reforestation and Forest Management:

Goal 1: Support activities to secure the tropical timber resource base.

Goal 2: Improve the tropical timber resource base.

Goal 2: Enhance technical, financial and human capacities to manage the tropical timber resource base.

Forest Industry:

Goal 1: Promote increased and further processing of tropical timber from sustainable sources.

Goal 2: Improve marketing and standardization of tropical timber exports.

Goal 3: Improve efficiency of processing of tropical timber from sustainable sources.

2.4 Revision of Guidelines and Manuals Relating to Project Formulation and Implementation - Decision 8(XXII)

Pursuant to Decision 8(XXII) requesting a revision of guidelines and manuals relating to project formulation and implementation, the Council at its Twenty-fourth Session in Libreville and Twenty-fifth Session in Yokohama received the preliminary and final reports of the consultants engaged to revise the guidelines and manuals relating to project formulation and implementation.

The objectives of the revision were to simplify and improve the standard format leading to clear, coherent and concise proposals.

The new manual will provide instructions for the executing agencies on planning, monitoring and evaluation work. It also includes:

- a) Financial Rules and Rules Relating to Projects;
- b) Guidelines for the Selection and Employment of Consultants;
- c) Guidelines for the Procurement and Payment of Goods and Services Financed from the Special Account;
- d) Updated version of all Council Decisions.

- The new manual also contains proposals for
- i) travel arrangements and travel authorization;
 - ii) official hospitality; and
 - iii) channels of communication

2.5 Promotion of Market Access Opportunities for International Trade in Tropical Timber

Pursuant to ITTC Decision 2 (XXIII) on market access, two consultants were engaged to undertake a study of impediments to market access of tropical timber in all ITTO member countries and where necessary, to propose actions to improve market access of tropical timber. The Council at its Twenty-fifth Session in Yokohama in November 1998, received the preliminary report of the consultants.

The preliminary report covered Japan, U.S.A., Brazil, U.K., Germany, Netherlands, Malaysia, the European Commission in Brussels and the WTO in Geneva

The preliminary report indicated that the European Commission supported timber certification as a marketing tool to increase the supply of timber from sustainable managed forests, and had accordingly indicated that certification should be market based, non-discriminatory, transparent and cost effective.

The report further mentioned certain actions taken by Malaysia to counter restrictive trade practices which included pursuing with like-minded countries to follow up implementation of the UNCED Statement of Forest Principles and Agenda 21 through Commission on Sustainable Development (CSD) and the Intergovernmental Forum on Forests (IFF); Strengthening Sustainable Forest Management (SFM) at Federal and State levels in terms of policy and implementation; and undertaking a pilot project on timber certification in cooperation with the Dutch timber trade and the Kerhout Foundation.

2.6 Downturn in the International Tropical Timber Market- Decision 6 (XXIV)

Seriously concerned about the deteriorating market conditions for tropical timber, characterized by falling demand, exports and prices, the Council at its Twenty-fourth Session in Libreville, Gabon called on

Members to explore ways to facilitate the recovery of the international tropical timber market and also requested the Executive Director to engage two consultants (one from a producer member country and the other from a consumer member country) to undertake a study to assess the extent and implications of the market downturn for tropical timber, and to recommend appropriate actions to address the problem. The study was financed at the Twenty-fifth Session of the Council in Yokohama and a preliminary report will be submitted to the Twenty-sixth Session in Chiang Mai, Thailand, May 1999 and a final report for the Twenty-seventh Session in November 1999 in Yokohama.

3. WORK PROGRAMME FOR 1999 – DECISION 7(XXIV)

Pursuant to Decision 7(XXIV), the Council at its Twenty-fifth Session in Yokohama endorsed the Work Programme for the Year 1999 as a working draft. The Council will undertake the following activities in 1999:

- (i) Hold two regular sessions (the Twenty-sixth, in Chiang Mai, Thailand from 28 May - 3 June 1999, and the Twenty-seventh, in Yokohama, Japan from 1-6 November 1999).
- (ii) Decide on format of presentation and type of information Members shall furnish on timber, its trade and the activities aimed at achieving sustainable management of timber producing forests [ITTA, Article 29 (a)].
- (iii) Undertake the annual review and assessment of the international timber situation [ITTA, Article 30 (a)].
- (iv) Promote the exchange of views among Member countries regarding:
 - the status of sustainable management of timber producing forests and related matters in Member countries;
 - resource flows and requirements in relation to objectives, criteria and guidelines set by the Organization.[ITTA, Article 30 (4)]
- (v) Decide on project work, including financing, taking into account the recommendations made by the Committees on project proposals and on-going and completed approved projects [ITTA, Articles 20, 21 and 25].
- (vi) Continue and conclude the work on the Manual on ITTO's rules and procedures for project implementation, and the up-dated versions of the ITTO Manual for Project Formulation, ITTO Manual for Project Monitoring, Review and Evaluation, and the Guidelines for the Selection and Employment of Consultants and Guidelines for the Procurement and Payment of Goods and Services Financed from the Special Account [related to ITTC Decision 8(XXII)].
- (vii) Reassess the role and continued existence of the Council's Informal Advisory Group (IAG) pursuant to ITTC Decision 3(XXII).
- (viii) Review the results of the market access study carried out under ITTC Decision 2(XXIII) and consider follow-up action as appropriate.
- (ix) Continue and conclude the work on the Manual on the methods that could be used to compile data on indicators in applying the ITTO Criteria and Indicators for sustainable management of natural tropical forests [ITTC Decision 3(XXIV)].
- (x) Consider and if appropriate take action on the study on the downturn in the international tropical timber market, undertaken under ITTC Decision 6(XXIV).
- (xi) Consider and approve the Organization's administrative budget for the Year 2000, and assess the contribution of each Member [ITTA, Article 19 (3)].
- (xii) Appoint independent auditors for the purpose of auditing the accounts of the Organization for the 1998 financial year [ITTA, Article 23 (1)].
- (xiii) Continue and conclude the work on intellectual property rights [ITTC Decision 10(XXII)].
- (xiv) Continue and conclude the work to establish policies for the operation of the Bali Partnership Fund [ITTA, Article 21 (6)].

- (xv) Review the adequacy of the resources available in the Bali Partnership Fund and endeavour to obtain additional resources needed by producing Members to achieve the purpose of the Fund [ITTA, Article 21 (5)].
- (xvi) Consider and, if appropriate, take decisions on actions to further strengthen cooperation of ITTO with IFF, ATO, FAO, UN/ECE and EUROSTAT [cooperation related to ITTC Decision 7(XXIV) and Cross Cutting Strategies (section 2) in the Action Plan].
- (xvii) Consider the results of the technical consultation on the prevention and management of forest fire [ITTC Decision 8(XXIV)] and decide on follow-up actions as appropriate.
- (xviii) Conclude any outstanding matters arising from ITTC Decision 4(XXII) related to Article 16 of the ITTA, 1994 concerning the appointment of the Executive Director.
- (xix) Based on the results of the trial authorized under ITTC Decision 2(XXIV), approve use of electronic mail and the ITTO homepage as the principal means of document transmission to interested countries, and consider and undertake appropriate cost saving measures with respect to document production, translation and distribution.
- (xx) Consider and take appropriate action on measures to further improve the effectiveness and efficiency of the Organization, including streamlining the work of the committees [ITTC Decision 5(XXIV)]. Consider ways to encourage greater participation in the work of ITTO of non-government stakeholders and relevant International Organizations [Action Plan, cross cutting strategies (section 2)].

4. REPORT BY MEMBERS ON PROGRESS TOWARDS ACHIEVEMENT OF YEAR 2000 OBJECTIVE - DECISION 3(X)

4.1 Twenty-fourth Session

At the Twenty-fourth Session of the Council held in Libreville, the following countries reported on their progress towards achievement of ITTO Year 2000 Objective, pursuant to Decision 3(X): Bolivia, Ecuador, Gabon and China.

Bolivia

For the past four years, Bolivia had been working towards the Year 2000 Objective. During the period, historic achievements had been made in the field of sustainable development of natural resources through the revision of a number of laws. ITTO had been financing a participative forest project with the ethnic groups of Chimanés.

Ecuador

The inter-institutional coordinating committee, SIDPARFE, had established a number of strategies for the sustainable development of Ecuador's forest resources. The strategies addressed forest land planning, institutional strengthening, human resources development, information systems, protection of biodiversity, community forest development, reforestation and afforestation and sustainable development of the forest industry. He stressed the lack of incentives and a limited recognition of the value of reforestation as factors which had hampered the country's efforts. SIDPARFE, working with a range of different Organizations coordinated by CORMADERA, had proposed a national reforestation programme. 44.7 percent of the country area was under forest. Areas totaling 2.2 million hectares had been identified for potential reforestation.

Gabon

85 percent of Gabon was under forest cover. 40 percent of the forest was still primary. The rate of deforestation was less than 1 percent and was the lowest in Africa. The forest sector was the second most important in the economy and employed 28 percent of the working population.

In May 1996, a new forest policy outline was drawn up which focused on the establishment of a more diverse timber industry, the reduction of export of logs and the promotion of value-added processing. The forest policy aimed at the protection and improvement of the environment. Temporary export permits were required for harvesting areas of 500-1,500 hectares; industrial permits of 15-30 years for areas of 15,000-200,000 hectares. Additionally there were the family logging systems which were restricted to family requirements only and a maximum of 100 trees. Export of logs far exceeded processed wood exports. Although the production of logs was increasing, processing remained stagnant. Log production exceeded two million cubic metres per annum, of which okoumé and ozigo represented more than 70 percent. With regard to marketing problems, volumes had dropped prior to 1995, but these were increasing again. It had been proposed that there should be a permanent forest area of 12 million hectares initially, of which 8 million hectares would be reserved for production forest and 4 million hectares for protected forest. The aim was to achieve 30 million hectares by 2000. Harvesting of logs had reached 2.5 million cubic metres per annum but it had been estimated that this would be restricted to 5 million cubic metres by 2010 and 6.5 million cubic metres by 2025.

China

China had formulated a Forestry Action Plan as an integral part of China's Agenda 21. China was also carrying out research on Criteria and Indicators and was formulating its own Criteria and Indicators on a trial basis, taking into account the processes of other Organizations, including ITTO. China was the second largest consumer of tropical timber but was also a producer and attached great importance to the sustainable management of its tropical forests in southern China.

4.2 Twenty-fifth Session

At the Twenty-fifth Session of the ITTC in Yokohama, the following countries reported on their progress towards the achievement of the ITTO Year 2000 Objective: Malaysia, Brazil, Papua New Guinea, Thailand, Colombia and Australia.

Malaysia

Malaysia has formulated and operationalized the "Malaysian Criteria and Indicators for Sustainable Management (MC&I) using the "ITTO Guidelines for the Sustainable Management of Natural Tropical Forests" and the 'ITTO Criteria for the Measurement of Sustainable Tropical Forest Management". Since then, a number of assessments, both internally and through independent external assessors had been conducted to assess the implementation of all prescribed activities at the FMU level. In addition, Malaysia and the Netherlands through the Kerhout Foundation had undertaken an assessment on current forest management practices in the states of Pahang, Selangor and Terengganu in accordance with MC&I at the FMU level, and as a result SGS Malaysia, had issued audit statements on forest, management, certifying the practices of SFM in these three states. The Forestry Department of Peninsular Malaysia also organized three regional seminars for logging contractors and the logging industries in March, May and August 1997 as part of the programme to promote the MC&I.

Brazil

Brazil was in the final process of creating the Brazilian Agency for Environment which would be responsible for regulation of forest activities. Brazil also hosted a meeting of the working group which discussed issues related to logging and protection of mahogany from 3 to 5 June 1998. Logging licenses for mahogany had been reduced since 1994 and new authorization for logging mahogany had been completely frozen. In the state of Para, logging, production and trade had been fully prohibited. The government had also instituted a Task Force for fighting forest fire. A new model for the management of national forests had also been proposed with the creation of the national public forests. The new Agency for Environment would be responsible for implementing and monitoring the new model of exploitation, which incorporated concepts of sustainable management of forest resources.

Papua New Guinea

Further progress made by PNG since 1995 included: (a) drafting of the Forestry Act and the National Forest Policy; (b) promulgation of a National Forest Plan to guide forest resource utilization and management; (c) finalization of PNG logging code; (d) preparation of the Four Year Corporate Plan (1998-2001) for PNG Forest Authority; (e) formulation of Forest Management Agreement (FMA) between the customary landowners and the PNG Forest Authority for securing forest areas for development; (f) establishment of Rapid Resource Appraisal to Forest Inventory Mapping System to provide data for planning and maintaining forest management in PNG; (g) introduction of Resource Replacement Policy.

Thailand

Thailand was in the process of revising its policies and legislation which govern all aspects of forestry in the country with emphasis on conservation and the involvement of the public in forest policies. The remaining forest had been placed under conservation, resulting in the ban on logging in the Kingdom's terrestrial forests in 1989. Progress made by Thailand towards sustainable forest management included:

- (i) comprehensive land use planning and provision for action;
- (ii) increase in conservation forests within the Protected Area System;
- (iii) implementation of several programmes for development in community forestry, agroforestry and forest plantation promotion outside the Protected Area System. Current policy of the Government is to maintain 40 percent of the country's land area as forests, hence the introduction of a forest land zoning scheme in 1992.

Colombia

A Green Plan had been developed by the National Government of Colombia aimed at establishing strategic guidelines for the reforestation and re-establishment of forests in Colombia. The plan placed forest cover as a way of contributing to national development. Both the state and private sectors had reached agreements to achieve an increase in productivity, better export capacity for timber products and better development of human and technological resources. Colombia had also prepared a National Forestry Plan which aimed at sustainable management and conservation of the forest. The Colombia Forestry Statute was also being modernized to unify requirements and rules for the exploitation of forest resources as well as modernization and marketing of forestry products. Colombia was also working on market research both domestically and internationally to initiate and implement activities connected to a possible system of certification for sustainable management of forests based on the ITTO Criteria and Indicators.

Australia

Australia's progress towards the Year 2000 Objective included:

- (i) significant progress on regional forest assessments including signing of the third 20-year forest agreements between national and state governments to expand protected forest area, improve forest management practices and provide industry with wood supply;
- (ii) an endorsement of sub-national criteria and indicators by the Australian Forestry and Environmental Ministers as well as agreement on the phased implementation strategy with research component to develop a cost effective means of implementing the indicators;
- (iii) publication of the first state of the Forest Report which provide comprehensive data on Australia's forests;
- (iv) considerable success in encouraging industry to invest in plantation establishment in accordance with Australia's vision of increasing the area of plantations by three-fold by the year 2020.

5. SUMMARY OF WORLD TIMBER SITUATION

In accordance with the ITTA (1994), the Council at its twenty-fifth Session reviewed and assessed the international timber situation. The following summary is extracted from the 1998 version of ITTO's Annual Review and Assessment of the World Timber Situation (document GI-7/98) which is available in full from the Secretariat, or from ITTO's homepage (<http://www.itto.or.jp/>).

Production

Production of tropical saw and veneer logs in ITTO Producer countries totalled 131.4 million m³ in 1997, level with 1996 production. Log production decreased in 1998, to 123.3 million m³, due to decreases in all regions but mostly in Asia. Tropical log production was equivalent to 17% of total saw and veneer log production from all forests in all ITTO Member countries in 1997. The proportion of logs domestically processed in Africa fell from almost 70% in the early 1990s to an average of 58% in the 1996-98 period, due to increased log exports to Asia. The Asian figure for domestic processing grew from 88% to 90% over the same period and will continue growing. This reflects increasing populations, growing economies and the emphasis on exporting value-added products in this region. Latin American countries processed virtually all tropical logs produced in 1996-98. Sawnwood production by ITTO producers totalled 38 million m³ in 1997, down 1% from 1996 levels. This decrease was due to production falling throughout Asia, which masked continuing production increases in Latin America. In 1998 sawnwood production fell further to 36.4 million m³. Tropical hardwood veneer production increased 4% to 2.5 million m³ in 1997. This increase was due to a 6% rise in Asian veneer production. Production by ITTO producer members decreased to about 2.3 million m³ in 1998. ITTO Producer countries' plywood production decreased in 1997 to 13.6 million m³, an 18% drop from 1996 levels. Indonesia's plywood production declined 37% from 1996 levels, while Malaysia's production increased by 20%. Plywood production in Producer countries decreased to 13 million m³ in 1998. ITTO Consumer countries also produced substantial quantities of tropical timber products in 1997. Tropical China (470 000 m³) and Australia (33 000 m³) together produced a total of 0.5 million m³ of tropical logs. Consumer countries produced 1.8 million m³ of sawnwood, 0.4 million m³ of veneer and over 5.7 million m³ of plywood, all (with the exception of China and Australia) from imported tropical logs. Production levels of tropical sawnwood, veneer and plywood in ITTO Consumer countries dropped in 1998 together with imports of tropical logs.

Exports

ITTO Producer country exports of primary tropical timber products were worth \$10.8 billion in 1996 and just over \$9.6 billion in 1997, equivalent to 28 and 26% of exports of all primary timber products by all ITTO Members in these years respectively. Asia accounted for 77% of the 1997 total, Africa for 14% and Latin America the remainder. ITTO Producer countries exported 15.9 million m³ of logs in 1997 worth almost \$2.2 billion, with Malaysia providing 42% of this volume, down from almost three-quarters in the early years of this decade. ITTO log exports in 1997 rose about 8% from 1996 levels, but declined dramatically to 11.8 million m³ in 1998, a reduction of over half since the beginning of the decade. Sawnwood exports by Producer members fell almost 10% to 6.2 million m³ valued at almost \$2.2 billion in 1997, declining 9% further to 5.7 million m³ in 1998. Falling Malaysian sawnwood exports account for most of these decreases. However, Malaysia remained the largest tropical sawnwood exporter in 1997, accounting for 42% of the total volume of ITTO Producer country exports. Malaysia's intention to stop all sawnwood exports from Peninsular Malaysia in favour of further processed products by 2000 will continue to affect the tropical timber trade. Veneer exports from ITTO Producer countries increased sharply in 1997, up over 23% from 1996 levels to over 1.4 million m³ worth \$547 million, before falling back to 1996 levels in 1998. The increase in 1997 was due to continuing expansion in Malaysian exports as well as a large jump in exports reported by Cambodia. Tropical plywood exports by Producer members in 1997 dipped slightly to 10.1 million m³ worth \$4.7 billion; Indonesia with 5.5 million m³ and Malaysia with 3.8 million m³ accounted for 92% of this total. Exports declined to almost 9.7 million m³ in 1998. Malaysia's plywood exports have risen by over 50% since the beginning of the decade and now account for almost two-fifths of total ITTO exports. ITTO consumer countries also exported or re-exported substantial quantities of tropical timber in 1997, led by sawnwood and plywood exports of 248 000 and 538 000 m³ respectively. Log and veneer exports by Consumer countries are smaller (83 000 and 86 000 m³ respectively in 1997, and stable in 1998). Exports of sawnwood and plywood by consumer countries increased in 1998, reflecting increased trade amongst countries in Europe, which accounts for the majority of the trade in tropical timber products between Consumer countries. The total value of exports by Consumer countries in 1997 was \$705.1 million, bringing the ITTO total tropical timber export value figure to almost \$10.3 billion.

Imports

Total Consumer country imports of tropical timber products in 1996 were worth \$10.9 billion, dropping to \$10.8 billion in 1997, with Japan (41%), the European Union (EU - 23%), China - including Taiwan Province of China - (20%) and Korea (7%) the main importers by value. Producer country imports of tropical timber products totalled almost \$1.2 billion in 1997, giving a total ITTO import value of \$12.0 billion in 1997. Thailand (46%) and the Philippines (14%) were the main Producer country importers by value. The value of total ITTO tropical imports was equivalent to 27% of the value of imports of all primary timber products by all ITTO Members in 1997. Tropical hardwood log imports by ITTO Consumer countries rose by almost 11% in 1997, to 13.3 million m3, worth \$2.7 billion. If imports by Producer members are taken into account, total 1997 tropical log imports by ITTO members were just over 16.3 million m3 (valued at almost \$3.3 billion), 7% more than in 1996. This increase reflects increased demand by China for African logs. The 1997 total log import figure is 0.3 million m3 greater than total ITTO exports, with the shortfall made up by non-ITTO suppliers (mainly the Solomon Islands and Laos, together with several relatively minor African log exporters). This gap increased to almost 1.8 million m3 in 1998, indicating that additional pressure was placed on non-ITTO log suppliers, although under-reporting of log exports, misclassification of imports and/or statistical errors are also contributing factors. Japan remained the dominant importer of tropical logs in 1997, accounting for over 44% of all Consumer country log imports, despite a drop of 5% to 5.9 million m3. Japanese tropical log imports dropped sharply to 3.8 million m3 in 1998. Thailand and the Philippines are the major ITTO producing country log importers, at about 0.8 and 0.5 million m3 each in 1997. Imports by Thailand collapsed to 216 000 m3 in 1998, while those of the Philippines continued to increase to almost 0.6 million m3, more than double its import levels in the early 1990's. Thailand's imports of tropical sawnwood decreased 36% to 1.3 million m3 in 1997 and kept falling to 0.6 million m3 in 1998. Thailand remained ITTO's largest tropical sawnwood importer in 1997 but was overtaken by both Japan and China in 1998. Japan's imports of tropical sawnwood increased 5% to 1.3 million m3 in 1997, but dropped sharply to 0.8 million m3 in 1998. Imports of tropical sawnwood by Consumer countries rose slightly in 1997 to over 5 million m3, before decreasing to 4.6 million m3 in 1998. The decrease in total ITTO tropical sawnwood imports of almost 12% (to 7.4 million m3 valued at over \$3.0 billion) in 1997 was primarily attributable to large decreases in Thailand's imports. Total imports decreased sharply again to 6.1 million m3 in 1998 due to the economic crisis affecting Asia and, increasingly, other regions. Total ITTO tropical veneer imports increased by 37% in 1997, to 1.5 million m3 valued at \$760 million. This sharp increase was due to a five-fold surge in imports by Korea (to 263 000 m3) and a 67% jump in China's imports which reached 417 000 m3. Imports in 1998 were down 8% to 1.4 million m3. The EU absorbed 361 000 and 339 000 m3 of tropical veneer in 1997 and 1998, over one-quarter of total ITTO imports in both years. Japan imported 94 000 m3 of tropical veneer in 1997, 14% less than in 1996. Japan, with substantial restructuring underway in its wood panels industry, saw tropical veneer imports drop further to 61 000 m3 in 1998. Tropical plywood imports continue to be led by Japan, which absorbed almost 4.9 million m3 in 1997, level with 1996 imports. Japan's imports made up 48% of total ITTO imports of 10.1 million m3 (valued at almost \$4.9 billion) in 1997. Tropical plywood imports by ITTO Members decreased sharply to 8.8 million m3 in 1998. In contrast to logs and sawnwood, total ITTO exports of tropical veneer and plywood regularly exceed total ITTO imports of these products, indicating the dominance of ITTO exporters in these markets.

6. OTHER ACTIVITIES

6.1 Expert Panel for Technical Appraisal of Project and Pre-Project Proposals

The Fifteenth and Sixteenth meetings of the Expert Panel for Technical Appraisal of Project and Pre-Project Proposals were held in February and August respectively. Both meetings were chaired by Prof. I.S. Ferguson (Australia). The Organization's headquarters also hosted two other Expert Panels during the course of the year These were:

- Expert Panel on Criteria and Indicators for the Measurement of Sustainable Management of Natural Tropical Forests [Decision 3(XXIII)] – 9-12 March 1998; Yokohama, chaired by Mr. Don Wijiwardana, New Zealand.
- Expert Panel for Strengthening and Streamlining the Work of the Committees – 14-17 September 1998, Yokohama, chaired by Prof. I.S. Ferguson, Australia.

6.2 Meetings and Conferences

The ITTO was represented at the following international meetings, conferences and workshops:

- (i) Seventeenth Session of the Asia-Pacific Forestry Commission (APFC), Food and Agriculture Organization of the United Nations (FAO), 23-27 February 1998, Yogyakarta, Indonesia
- (ii) Conference on Exchange of Experiences and Strategies on Sustainable Management in the Amazon, 17-19 June 1998, Iquitos, Peru
- (iii) Training Workshop on ITTO Project Identification and Formulation, 22-30 June 1998, Georgetown, Guyana
- (iv) International Expert Consultation of the Six-Country Government-Led Initiative in Support of the IFF "Putting the IPF Proposals for Action into Practice", 29 June – 3 July 1998, Baden-Baden, Germany
- (v) Meeting of the Working Group on Mahogany (MWG), 3-5 July 1998, Geneva, Switzerland
- (vi) Meeting of the Committee on Trade and Environment (CTE) of the World Trade Organization, 23-24 July 1998, Geneva, Switzerland
- (vii) IGES International Workshop on Forest Conservation Strategies for the Asia and Pacific Region, 21-23 July 1998
- (viii) The Informal High-Level Inter-Agency Task Force on Forests (ITFF), 23-26 August 1998, Geneva, Switzerland
- (ix) Intergovernmental Forum on Forests (IFF) of the Commission on Sustainable Development, 24 August – 4 September 1998, Geneva, Switzerland
- (x) International Consultation on Research and Information System in Forestry (ICRIS), 7-10 September 1998, Ort Gmunden, Austria
- (xi) International Experts Workshop and In-depth Study on Forest Conservation and Protected Areas, 8-10 September 1998, Canberra, Australia
- (xii) Sixth Meeting of the Common Fund for Commodities (CFC) and International Commodity Bodies (ICBs), 14 September 1998, Rome, Italy
- (xiii) Launching of the Report of the World Commission on Forests and Sustainable Development (WCFS), 20 September 1998, Chennai, India
- (xiv) Pacific Heads of Forestry Meeting, 21-25 September 1998, Nadi, Fiji
- (xv) United Nations Framework Convention of Climate Change (UNFCCC) – Workshop of the Subsidiary Body on Scientific and Technological Advice (SBSTA) on Land-use, Land-use Change and Forestry, 24-25 September 1998, Rome, Italy
- (xvi) Tenth Meeting of the Montreal Process, 5-9 October 1998, Moscow, Russia
- (xvii) Expert Meeting on Public Policies Affecting Forest Fires, 28-30 October 1998, Rome, Italy
- (xviii) Training Workshop on Tropical Forestry and Timber Trade Statistics, 16 November – 4 December 1998, Chennai, India
- (xix) Training Workshop on ITTO Project Identification and Formulation, 19-27 November 1998, Kuala Lumpur, Malaysia
- (xx) International Cross-sectoral Forum on Forest Fire Management in Southeast Asia, 7-8 December 1998, Jakarta, Indonesia
- (xxi) Training Workshop on ITTO Project Identification and Formulation, 8-16 December 1998, Cochabamba, Bolivia

7. THE SECRETARIAT

Two Professional staff members joined the Secretariat during 1998. Mr. Amha Bin Buang reported for duty on 1 May 1998 as Assistant Director for Economic Information and Market Intelligence, and Mr. Edmond Collins Ahadome assumed the post of Information Officer within the Management Services Division on 15 October 1998. Mr. Lachlan A.J. Hunter resigned from service as Assistant Director for Management Services on 31 March 1998 after serving the Organization for more than seven years; he was succeeded by Mr. Takeichi Ishikawa, formerly Information Officer in the Division of Management Services. On 1 May 1998, Mr. Jaime Reinaldo Muñoz-Reyes Navarro joined the Organization on secondment to the Secretariat of the Intergovernmental Forum on Forests at the United Nations in New York.

In the beginning of the year, one General Service staff member joined the Secretariat. Ms. Manako Hanawa entered duty on 5 January 1998 as Secretary in Office of the Executive Director. A tragic incident occurred during the summer of this year. Due to illness, Mr. Kazuhiro Matsuda, Document Clerk in Management Services, sadly passed away on 31 August 1998. Mr. Michiaki Fujimoto, formerly Administrative Clerk in Management Services, assumed his place. The average annual staff complement was thirty-one, including those seconded from the City of Yokohama, with fourteen different nationalities.

As always, the Secretariat enjoyed the full support and co-operation of the Government of Japan and the City of Yokohama through secondment of General Service staff members and provision of office accommodation, facilities, and equipment. Both Council Sessions benefited from the same sources.

8. ECONOMIC INFORMATION AND MARKET INTELLIGENCE

8.1 Project Activities

The Committee reviewed proposals for five projects and one pre-project which had been recommended for its consideration by the Fifteenth and Sixteenth Sessions of the Expert Panel for Technical Appraisal of Project Proposals in 1998. These were:

PD 40/96 Rev.5 (M)	The Establishment of a National System for Surveying and Evaluating the Data for Egyptian Annually Imported Timber
PD 44/97 Rev.2 (M)	Implementation of a Monitoring System for Sustainable Tropical Forest Management in Bolivia
PD 6/98 Rev.1 (M)	Establishment of a Forest Statistics and Information Center for the Implementation of Sustainable Forest Management in the Republic of Honduras
PD 15/98 Rev.2 (M)	Development and Installation of a Computer Management System for the Control of Forest Production in Gabon
PD 19/98 Rev.1 (M)	Design and Implementation of an Information System within the Guyana Forestry Commission
PPD 8/98 Rev.1 (M)	Establishment of a National Forest and Timber Marketing Statistics System (Ecuador)

All of these were approved by the Council, with the exception of PD 44/97 Rev.2 (M), which the Committee recommended be revised and reformulated for consideration by the Expert Panel for the Technical Appraisal of Project Proposals in 1999. Of the remaining five proposals, only one [PPD 8/98 Rev.1 (M)] received funding and was pending signature of agreement by the end of 1998.

The Committee considered twelve projects, one pre-project and one activity that were approved and funded in previous years and which were operational in 1998. These were:

PD 167/91 Rev.1 (M)	Diagnosis and Evaluation of the Brazilian Forestry Sector
PD 16/93 Rev.4 (M)	Market Information Service (MIS) for Tropical Timber and Timber Products – Phase IV (1) (ITTO Secretariat)
PD 5/94 Rev.3 (M)	Development of a Computerized Information System for the Forestry System of Ghana
PD 34/94 Rev.1 (M)	Establishment and Implementation of a Forest Statistical Information System (Colombia)
PD 35/94 Rev.4 (M, I)	Forest Products Marketing Organization Feasibility Study (PNG)
PD 1/95 Rev.4 (M)	Training Development on the Assessment of Sustainable Forest Management in Indonesia
PD 25/95 Rev.1 (M)	Training Workshops on Tropical Forestry and Timber Trade Statistics (ITTO Secretariat)
PD 27/95 Rev.3 (M)	Establishment and Operation of a Forest Strategic Information Center (CIEF) (Peru) – Phase II Stage 1
PD 25/96 Rev.2 (M)	China's Consumption of Forest Products and Its Demand for Them from the International Market by the Year 2010

PD 44/96 Rev.2 (M)	Establishment of a Forest Statistics Information System (Panama)
PD 1/97 Rev.1 (M)	Implementation of a National Forest Statistics Information System (Bolivia)
PD 3/97 Rev.1 (M)	Development of an Export Market Intelligence Monitoring System (Fiji)
PPD 9/97 Rev.1 (M)	Development and Implementation of the Forestry Statistics Information System (Philippines)
PP-A/23-63	Activity to Facilitate Development of a Joint ITTO/ECE-FAO/EUROSTAT Forest Statistics Questionnaire

Three of these [PD 16/93 Rev.4 (M) Phase IV (2), PD 27/95 Rev.3 (M) Phase II Stage 1 and PP-A/23-63] were approved to receive additional funding in 1998. PD 34/94 Rev.1 (M) was granted a three-month extension period without additional funds. The Committee approved ex-post evaluation for two of these projects [PD 167/91 Rev.1 (M) and PD 5/94 Rev.3 (M)], both of which had completed project activities for some time but had outstanding reports in 1998.

Three projects approved by the Council in previous years remained unfunded in 1998:

PD 27/95 Rev.3 (M)	Establishment and Operation of a Forest Strategic Information Center (CIEF) (Peru) – Phase II Stage 2
PD 29/97 Rev.2 (M)	Development of a Computerized Tracking and Inspection System for Logs and Processed Wood Products in Ghana
PD 52/97 Rev.2 (M)	Development and Implementation of an Educational Program to Inform the Wood Products Distribution Chain on the Value of Using Tropical Timbers from ITTO Member Countries (Ghana)

Finally, the Committee received and approved completion reports on three projects, one pre-project and one activity in 1998. These were:

PD 46/94 (M,F,I)	Forestry Law Regulation (Bolivia)
PD 27/95 Rev.3 (M)	Establishment and Operation of a Forest Strategic Information Center (CIEF) (Peru) – Phase I
PD 29/96 Rev.1 (M)	Reinforcement of the National System for the Collection and Processing of Forest Statistics and Support for the Training of Field Units (Gabon)
PPD 13/95 Rev.1 (M)	Creation of a Structure for Research, Collection and Publication of Economic Information with the View to Establishing a Sustainable Database on the Marketing of Timber in Cameroon
PP-A/20-51	Further Update "Timber Certification in Transition: Study on Certification of All Internationally Traded Timber and Timber Products"

The Committee approved ex-post evaluation for [PD 29/96 Rev.1 (M)] to be carried out in 1999.

Details of all projects, pre-projects and activities that were operational, awaiting finance or completed during 1998 are contained in Annex 1.

8.2 Non-Project Activities

i) Market Discussion

The 1998 Market Discussion took place on 21 May 1998 at a joint session of the three Committees during the Twenty-fourth Session of the Council in Libreville, Gabon. The theme was "Africa in the Context of World Trade". In addition to presentations from the ITTO Secretariat, there were invited speakers from Gabon, Ghana, Malaysia, UK, ATO, IHPA and UCBD.

ii) Annual Review

The 1998 Annual Review and Assessment of the World Timber Situation took place during the Twenty-fifth Session of the Council in Yokohama in November 1998. Discussions were based on the background document prepared by the Secretariat, "Elements for the Annual Review and Assessment of the World Timber Situation 1998". At the close of discussions, members were invited to submit any updates or revisions to the document by 15 December 1998. The summary of the Annual Review, incorporating all revisions received, is included on pages 16-18 of this report.

8.3 Work Programme for 1999

The Committee agreed to implement the following work programme for 1999:

- (i) In cooperation with industry and trade associations, organize and hold the ITTO 1999 Annual Market Discussions on the world tropical timber trade [Action Plan, section 3.1, goal 2 action 1].
- (ii) Monitor and analyze statistical data and other relevant information, including any information on undocumented trade [Action Plan, section 3.1, goal 1 action 4].
- (iii) Consider (and make recommendations to Council) the undertaking of studies of the competitiveness of tropical timber and tropical timber products with timber and non-timber substitutes [Action Plan, section 3.1, goal 2 action 7].
- (iv) Prepare terms of reference and make recommendations to Council on a study on the medium and longer term outlook for the tropical timber market.
- (v) With the assistance of the Expert Panel for Technical Appraisal of Project Proposals, appraise Economic Information and Market Intelligence project and pre-project proposals submitted by Member countries [ITTA, Article 27 (4)].
- (vi) With assistance of the ITTO Secretariat and independent consultants (as necessary), ensure effective monitoring and evaluation of approved projects in the field of Economic Information and Market Intelligence [ITTA, Article 27 (4)].
- (vii) Continue monitoring of development of forest certification and timber labelling [Action Plan, section 3.1, goal 3].
- (viii) Review the results of project and policy work in the field of Economic Information and Market Intelligence and make recommendations to Council on ITTO's work program for the year 2000 [ITTA, Article 27 (4)].
- (ix) In conjunction with the Committee on Forest Industry and the Committee on Reforestation and Forest Management, assess fellowship applications and decide on fellowships to be granted by ITTO under project PD 1/93 Rev.1 (M,F,I).
- (x) Consider project ideas and provide guidance to Member countries for the formulation of Economic Information and Market Intelligence project proposals which meet the priorities set in the Libreville Action Plan [Action Plan, section 3.1, goal 1 action 6, goal 2 action 8, and goal 3 action 4].

- (xi) In cooperation with FAO, UN/ECE and EUROSTAT and the private sector, develop a common questionnaire to obtain information for the Annual Review and Assessment of the World Timber Situation, with a view to minimizing duplication in country information requirements [Decision 8(XXI)],
- (xii) Consider and make recommendations to Council on future actions to further cooperate with FAO, UN/ECE, and EUROSTAT to improve the availability of trade and economic data relevant to the global timber market and avoid duplication and overlap [Action Plan, section 3.1, goal 1 action 3].
- (xiii) Propose ways to streamline the collection and dissemination of statistical data [Action Plan, section 3.1, goal 1 action 2].
- (xiv) Consider and if appropriate take action to disseminate information on projects findings and results [ITTA, Article 27 (4), Action Plan, section 2].

9. REFORESTATION AND FOREST MANAGEMENT

9.1 Project Activities

- The Committee reviewed 34 project proposals and six pre-project proposals which were commended for its consideration by the Fifteenth and the Sixteenth Expert Panels for the Technical Appraisal of Project/Pre-project Proposals, as well as proposals submitted directly to the Committee after amendments by submitting agencies, in 1998. These were:

Project Proposals

PD 8/96 Rev.2 (F)	Conservation and Pest Management for Realizing the Potential of Mahogany as a Sustainable Crop (Bolivia and Honduras)
PD 2/97 Rev.3 (F)	Establishment of a Demonstration Area for the Sustained Utilization of Timber, Based on a Forest Enterprise in the Nlobo Reserved Forest – Phase I (Cameroon)
PD 4/97 Rev.3 (F)	Development and Promotion of Afforestation Activities in Egypt (Egypt)
PD 17/97 Rev.3 (F)	Pilot Project for the Reforestation and Rehabilitation of Degraded Forest Lands in Ecuador (Ecuador)
PD 18/97 Rev.1 (F)	National Forest Inventory & Support for Forest Allocation (Dem. Rep. Congo)
PD 27/97 Rev.2 (F)	Tree Flora of Sabah and Sarawak - Phase II (Malaysia)
PD 30/97 Rev.3 (F)	Rehabilitation of Degraded Forests in Ghana (Ghana)
PD 53/97 Rev.2 (F)	Regionalisation of the Volume Tables for Trees of Natural Forests and Plantations (Côte d'Ivoire)
PD 55/97 Rev.2 (F)	Reforestation and Participatory Forest Management in the Transitional Zone (Brong-Ahafo Region) of Ghana (Ghana)
PD 63/97 Rev.3 (F)	Specialization Program for Forest Technicians on Sustainable Tropical Forest Management in Bolivia (Bolivia)
PD 1/98 Rev.1 (F)	Teak Reforestation Project of 1,100ha at Toeuk Chha Forest Reserve Kampong Cham Province (Cambodia)
PD 2/98 Rev.2 (F,I)	Management and Utilization of Paca (<i>Guadua sarcocarpa</i>) (Peru)
PD 3/98 Rev.1 (F)	Teak-based Multistoried Agroforestry system: An Integrated Approach towards Sustainable Development of Forests (Myanmar)
PD 4/98 Rev.1 (F)	Silviculture and Economics of Improved Natural Forest Management in Ghana (Ghana)
PD 8/98 Rev.2 (F)	Development of a Demonstration Area in the Sustainable Management of Gabonese Forests (Gabon)
PD 9/98 Rev.2 (F)	Publication, Testing and Clarification of ITTO's Criteria and Indicators for the Sustainable Management of Gabon's Forests (Gabon)
PD 10/98 Rev.1 (F)	Participatory Forest Management by the Indigenous Communities of the Chimanes Region, Beni, Bolivia (Bolivia)
PD13/98 Rev.2 (F)	Establishment of a National Network of Permanent Plots of Forest Species (NPPNFS)

	(Colombia)
PD 14/98 Rev.1 (F)	Sustainable Use and Reforestation of Amazon Forests by Indigenous Communities (Peru)
PD 17/98 Rev.3 (F)	Forest Inventory and Production of Management Plans for Areas of Reserved Production Forests in the First Forest Zone of Gabon (Phase II - stratification of 1st zone) (Gabon)
PD 21/98 Rev.1 (F)	Forest Management, Community Involvement and Sustainable Use of Si-Kop Forest Area (Coastal Province, Cameroon) (Phase II) (Cameroon)
PD 22/98 Rev.1 (F)	Development of Teak Cloning and Establishment of Industrial Plantations (Côte d'Ivoire)
PD 24/98 Rev.2 (F)	Intensification of Teak Forestry (Côte d'Ivoire)
PD 30/98 Rev.2 (F)	Study of Silvicultural Techniques for the Sexual and Asexual Reproduction of Chanul (<i>Humiriastrum procerum</i>) (Ecuador)
PD 31/98 Rev.1 (F)	First Conference of Andean Forestry Chambers for the Sustainable Management of Natural Tropical Forests in the Region (Ecuador)
PD 32/98 Rev.1 (F)	Forest Fire Management in Ghana (Ghana)
PD 36/98 Rev.1 (F)	Establishment of Forestry Sector Draft Development Plan for Sustainable Forest Management in Cambodia (Cambodia)
PD 38/98 Rev.2 (F)	Technology Development and Demonstration on Reforestation Using Tropical Hardwood Species in Yunnan Province of China (Phases I & II) (China)
PD 40/98 Rev.1 (F)	Development and Implementation of a Community-based Sustainable Forest Development Plan in the Miguel River Basin, District of Donoso, Panama - Phase I & II (Panama)
PD 48/98 Rev.1 (F)	Reforestation of the Abutia Plains by Indigenous Communities in the Volta Basin (Ghana)
PD 49/98 Rev.1 (F)	Participatory Tropical Forest Development by Women In Indigenous Communities (Ghana)
PD 51/98 Rev.1 (F)	Forest Fire Management in Côte d'Ivoire on an Experimental Basis (Côte d'Ivoire)
PD 54/98 Rev.1 (F)	Institutional Strengthening of the Geographic Information System (GIS) of the National Environmental Authority (ANAM) for the Monitoring and Evaluation of Panama's Forest Resources with a View to their Sustainable Management (Panama)
PD 56/98 (F)	Criteria and Indicators for Sustainable Forest Management in the Venezuelan Forests (Venezuela)

A total of 31 projects were approved for immediate implementation as soon as funds become available in the Special Account.

Pre-project Proposals

PPD 10/96 Rev.2 (F)	Preliminary Study for a Project on the Production of Timber by the Agroforestry Method in the Wawa Region (Plateaux Region of Togo) (Togo)
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PPD 10/97 Rev.2 (F,I)	Formulation of a Project Proposal for Sustainable Management and Rehabilitation of Nepal's Tropical Forest Resources through Community Participation and Manpower Development (Nepal)
PPD 2/98 Rev.1 (F)	Promotion and Transfer of Knowledge on Sustainable Forest Management Models among Timber Producers (Peru)
PPD 7/98 Rev.1 (F)	Support to the Akposso Population for the Development of a Participative Approach to Forest Management in the Bato Area (North Amou) (Togo)
PPD 10/98 Rev.1 (F)	Establishment of Forest Research Base for Sustainable Forest Management in Cambodia (Cambodia)
PPD 16/98 Rev.1 (F)	Management of Aboulaye Permanent Forest (Togo)

The six pre-projects were approved for immediate implementation as soon as funds become available in the Special Account.

- The Committee received reports on ten completed projects and nine completed pre-projects as follows:

Completed Projects

A total of ten projects were reported as completed during the sessions.

(A) Completed Projects, Including Financial Audit

PD 95/90 (F)	Forest Management in the Alexander von Humboldt National Forest, Phase I, II, III (Completed) (Peru)
PD 128/91 Rev.2 (F)	Management, Conservation and Development of the Mangrove Forests in Panama (Panama)
PD 130/91 Rev.2 (F)	Plantation Establishment Methods (Phase I) (Philippines)
PD 20/93 Rev.1 (F)	Development of National Guidelines for the Sustainable Management of Natural Tropical Forests in Cameroon (Cameroon)
PD 16/94 Rev.1 (F)	Reforestation for the Production of Valuable Timber and Non-Timber Products (Peru)
PD 2/95 Rev.1 (F,I)	Book and Databank on the Lesser-Known Timbers of South-East Asia: Volume 5(3) within the PROSEA Programme (Indonesia)
PD 8/95 Rev.1 (F)	Multiple Resource Stratification, Mapping and Inventory for the Management of the First Forest Zone in Gabon - Phase I (Gabon)
PD 43/95 Rev.1 (M,F,I)	First Latin American Workshop on Tropical Forests Within the Framework of the International Tropical Timber Agreement (Peru, Venezuela)

(B) Completed Projects, Pending Financial Audit

PD 77/90 (F)	Establishment of a Pilot Area for Silviculture in Closed Forests in Congo (Congo)
PD 202/91 Rev.1 (F)	Sustainable Forest Management through Collaborative Efforts (Thailand)

Completed Pre-projects

A total of nine pre-projects were reported as completed during the sessions.

PPD 8/94 Rev.2 (F)	Diagnosis and Design of a Support Program for PLANFOR (Ecuador)
PPD 6/95 Rev.1 (F)	Forest Development Plan for the Sustainable Management of Forests in the Donoso District Province of Colon, Republic of Panama (RE: from PD 32/94 (F)) (Panama)
PPD 8/95 Rev.2 (F)	Mangrove Resource Information System: Evaluation of the Scope and Content of Existing Databases (Global)
PPD 17/95 Rev.2 (F)	Development and Promotion of Afforestation in Egypt (Egypt)
PPD 3/96 Rev.1 (F)	Design of a Socially Sustainable Forest Management Model (Peru)
PPD 5/96 (F)	Buffer Zone Development for Sustainable Forest Management (Thailand)
PPD 8/96 (F)	Enhancement of the Original Proposal for Project "Sustainable Forest Management in the Rapiran Bolson, Bolivian Amazon Region" (Bolivia)
PPD 15/96 Rev.1 (F)	Technical Assistance to Develop a Mapping and Inventory Project Aimed at the Sustainable Management and Administration of Forest Resources (Panama)
PPD 17/96 Rev.1 (F)	Study and Definition of a General Scheme for Implementing Strategies for the Sustainable Management of the Forests of Gabon in Accordance with the Year 2000 ITTO Objective (Gabon)

9.2 Non-Project Activities

Project administration, monitoring and evaluation took up the bulk of the activities of the division including the preparations of papers and reports to several Expert Panels, the Committee and the Council. In addition, the staff of the division participated in several other activities, as follows:

- a. Participation in a conference on "Exchange of Experiences and Strategies on Sustainable Management in the Amazon" in Iquitos, Peru, June, 1998. The objective of the conference was to share information and collect a wide variety of opinions regarding 'how to conserve and sustainably manage the Amazon Region'. The meeting was organized with official assistance from the European Commission through a EU Project on implementing in the Amazon region a Proposal for Action of the Intergovernmental Panel on Forests.

The meeting concluded that the region's development should focus on the assurance of the social, cultural, economic and environmental sustainability of the Amazon through the preservation of the Amazon's cultural and bio diversity.

- b. Participation in the International Consultation on Research and Information Systems in Forestry in Gmunden, Austria in September, 1998. The meeting was requested by the IPF at its fourth and final session. Indonesia through CIFOR and Austria through IUFRO organized the meeting with cooperation from FAO in collaboration with relevant institutions and organizations.

The meeting concluded that new challenges are confronting the managers of the world's forests, with stakeholders demanding a broader range of goods and services as well as a voice in setting priorities on the use of forests. Management is becoming more sophisticated and adaptive, seeking to achieve balance among multiple products and services. Good science has a vital role in generating new information that can provide input to the international dialogue on forests through the provision of synthesis of existing information and knowledge; the generation of new policy-relevant information in identified priority areas; and the input of expert technical advice as requested by IFF and other international bodies.

- c. Participation the Tenth Meeting of the Montreal Process for Criteria and Indicators for the Conservation and Sustainable Management of Temperate and Boreal forests in Moscow, Russia in October, 1998. organized by Russia and Canada. A presentation was given on the development of the new set of ITTO Criteria and Indicators for Sustainable Management of Natural Tropical Forest.

The discussions focussed on a revision of the Santiago Declaration, the development of the Montreal Process brochure, the state of forests report, the future work of the Technical Advisory Committee and the consideration of the countries reports.

- d. According to the decision 8(XXIV) of the ITTO Council on Technical Consultations on Forest Fire, the division has been active on issues relating to forest fire matters in tropical forests. From 8th to 20th September 1998 a mission comprising ITTO staff and invited international experts on forest fire management visited Malaysia and Indonesia to study the problems and issues relating to forest fires in the region and to propose action. ITTO participated in an International consultation on 'Public Policies Affecting Forest Fire' arranged by FAO in Rome, Italy in October, 1998.

ITTO, in cooperation with BAPPENAS of the Government of Indonesia and JICA, conducted an International Consultation on Forest Fire in Jakarta, Indonesia in December, 1998. The consultation drew upon expertise from a wide number of organizations and individual experts.

This activity will continue in 1999.

9.3 Work Programme for 1999

The Committee on Reforestation and Forest Management considered its work program for 1999 in light of the ITTO Libreville Action Plan. The work program is mainly concentrated on the routine tasks related to appraisal of project proposals, project monitoring and evaluation, and project administration. In addition, the division will be involved in the formulation of a manual on applying the ITTO Criteria and Indicators for Sustainable Management of Natural Tropical Forests, formulating terms of reference for the development of guidelines on reduced impact logging and guidelines for the rehabilitation of degraded forests and forest lands including secondary forests.

10. FOREST INDUSTRY

10.1 Project Activities

In 1998 six project and seven pre-project proposals were submitted by member governments for consideration and appraisal by the Committee on Forest Industry:

PD 46/97 Rev.1 (I)	Community Forest Product Processing in the Puerto Dias Extractive Reserve (Brazil)
PD 12/98 Rev.1 (I)	Technical Manpower Development for the Ghana Wood Industry Training Center (WITC) (Ghana)
PD 20/98 Rev.1 (I)	Establishment of a Training and Technical Information Center for Wood Based Industries (Myanmar)
PD 33/98 Rev.1 (I)	Sustainable Production of Construction Materials from Philippine Bamboos (Philippines)
PPD 1/98 Rev.1 (I)	rubberwood Utilization and Marketing in Thailand (Thailand)
PPD 4/98 Rev.1 (I)	Promotion of Tropical Non-wood Forest Products in Thailand (Thailand)
PPD 5/98 Rev.1 (I)	Technical Assistance to Improve Efficiency and Competitiveness in the Timber and Furniture Industries of Peru (Peru)
PPD 9/98 (I)	Assessment of Forest Industry Training Needs (Guyana)
PD 41/98 Rev.1 (I)	National Seminar Workshop on the Promotion of Plantation Timber Utilization (Philippines)
PD 44/98 Rev.1 (I)	Handbook on Tree and Wood Identification of 100 Lesser-Used and Lesser-Known Timber Species from Tropical Africa with Notes on Ethnography, Silviculture and Uses (Ghana)
PPD 13/98 Rev.1 (I)	Assessment of Forest Industry Training Needs (Fiji)
PPD 14/98 (I)	Preparation of a Master Plan for the Development of the Timber Industry in the Congo (Congo)
PPD 15/98 Rev.1 (I)	Joint ATO/ITTO Conference on Further Processing of African Tropical Timber (Gabon)

After a thorough evaluation, the Committee recommended to Council the approval of all six of the project proposals and six of the pre-project proposals. One project proposal and one pre-project proposal were recommended as submitted [PD 20/98 Rev.1 (I) and PPD 4/98 Rev.1 (I)] and the remaining ten were further revised by the Committee [PD 46/97 Rev.3 (I), PD 12/98 Rev.2 (I), PD 33/98 rev.2 (I), PPD 1/98 Rev.2 (I), PPD 5/98 Rev.2 (I), PPD 9/98 Rev.1 (I), PD 41/98 Rev.2 (I), PD 44/98 Rev.2 (I), PPD 13/98 Rev.2 (I) and PPD 15/98 Rev.2 (I)]. The Council approved for implementation of the six project proposals and six pre-project proposals recommended by the Committee.

The approved proposals focus on forest products research, and technical assistance and the training to support tropical timber further processing in producing countries.

The Committee also reviewed the status and scope of work of forty-two approved projects and pre-projects, eight of which were completed during 1998. Information on these projects and pre-projects is provided in Annex 1.

The Committee, in response to Council Decision 7(XXI), took action to effect ex-post evaluations of selected completed projects. The Committee in 1998 considered ex-post evaluation reports prepared by

independent consultants covering the following projects:

- | | |
|---------------------|--|
| PD 63/89 Rev.1 (I) | Low-Cost Houses from Small Diameter Trees, Plantation Thinnings and Tree Tops and Branches (Philippines) |
| PD 37/87 Rev.3 (I) | Industrial Use of New Forest Species in Peru - Phases I and II (Peru) |
| PD 152/91 Rev.1 (I) | Harmonization of Technical Tropical Timber Standards in the Andean Sub-Region (Peru) |
| PD 108/90 Rev.1 (I) | Forest Industry Development Studies (Papua New Guinea) |

10.2 Forest Industries Guidelines

The Forest Industry Committee concluded its work on Guidelines for the Development of Sustainable Forest Industries [PPD 12/92 (I)]. The concluding Committee work in this area focussed on guidelines, policies and other actions deemed necessary to promote further processing of tropical timber. A final report, entitled Policies and Measures Toward the Development of Domestic Further Processing of Tropical Timber has been printed and is available from the ITTO Secretariat. The report identifies a total of 28 principles related to policies and measures toward the development of domestic further processing, of which 24 concern producer countries and 4 relate to consumer countries. The principles have been broken down into 70 action proposals. In producer countries the following areas are covered: (i) improving investment climate (policy and legislation, enhancing investment, infrastructure), (ii) wood supply and utilization, (iii) development of trade, (iv) environmental and social aspects (socio-economic benefits, safety considerations, environmental considerations), and (v) improving productivity (training, research and development, waste reduction and utilization, small-scale industries). In consumer countries action proposals refer to (i) market access and trade development, (ii) investment and finance, and (iii) research and development and transfer of technology.

10.3 Work Programme for 1999

The Committee on Forest Industry considered its 1999 work program in light of the newly approved ITTO Libreville action Plan. Besides its routine tasks related to projects appraisal, monitoring and evaluation, the Committee agreed to implement in 1999 some key activities identified. These are:

- (i) Monitor and review the need for work on tropical timber standardization and harmonization, including the area of tropical timber nomenclature.
- (ii) Prepare terms of reference and make recommendations to Council on work to develop in cooperation with industry and publish guidelines on increasing utilization efficiency and the reduction of losses and waste throughout the production chain.
- (iii) Consider and hold discussions on the need for and desirability of work on a voluntary code of conduct for the forest industry.
- (iv) Prepare terms of reference for and recommend to Council the implementation of a study to review the status of further processing of tropical timber in producing countries.

ANNEX 1

SUMMARY OF PROJECTS, PRE-PROJECTS AND ACTIVITIES

ECONOMIC INFORMATION AND MARKET INTELLIGENCE PROJECTS

PROJECT: PD001/95 Rev.4 (M)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXIII
 STATUS: OPERATIONAL
 COUNTRY: INDONESIA
 AGENCY: INDONESIAN ECOLABELLING WORKING GROUP
 ITTO BUDGET(US\$): \$672,774.00
 STARTING YEAR: 1998

TITLE: TRAINING DEVELOPMENT ON THE ASSESSMENT OF SUSTAINABLE FOREST MANAGEMENT IN INDONESIA

DESCRIPTION:

The project aims to strengthen the institutional capacity to assure implementation of sustainable forest management (SFM) and to develop human resources capability in investigation and inspection of SFM. The major output of the project will be solid curriculum and training materials for inspection of SFM, wider availability of human resource bases for SFM combined with deepened knowledge on SFM, and strengthened institutional bases for implementation of SFM.

The first steering committee showed that the project has made satisfactory progress in the development of training materials, workshops and orientation on training materials.

PROJECT: PD001/97 Rev.1 (M)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: BOLIVIA
 AGENCY: MIN. OF AGRICULTURE, LIVESTOCK AND RURAL DEVELOPMENT
 ITTO BUDGET(US\$): \$839,745.00
 STARTING YEAR: 1998

TITLE: IMPLEMENTATION OF A NATIONAL FOREST STATISTICAL INFORMATION SYSTEM

DESCRIPTION:

This three-year project is aimed at the implementation of a national forest statistical information system, which is considered vital for the consistent formulation of the Forestry Action Plan for Bolivia (FAP-BOL). The project will have a central unit which will promote, coordinate and operate the system, and will disseminate the information to users at different levels. In this regard, the development objective of the project will be "to establish a national forest statistical information system that will facilitate the gathering, processing storage, dissemination and access to all information pertaining to the forest sector, that will be used as the basis for the development of policies and for the decision-making process in the sector".

The national forest statistics system (SIFOR/BOL) comprises three modules: production, export and import. The export module has been fully completed while the other two modules are in good progress. The project has also formalized agreements with relevant national institutions to facilitate the operations of the system. The project's technical staff have visited similar projects in Colombia and Peru to gain experience in the project implementation.

The second steering committee meeting is scheduled for May 1999.

PROJECT: PD003/97 Rev.1 (M)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: FIJI
 AGENCY: FORESTRY DEPARTMENT
 ITTO BUDGET(US\$): \$125,300.00
 STARTING YEAR: 1997

TITLE: DEVELOPMENT OF AN EXPORT MARKET INTELLIGENCE MONITORING SYSTEM

DESCRIPTION:

This project is designed to:

- i) Set up an export market intelligence monitoring system for the Forestry Department;
- ii) Integrate that system with the forest resource/utilization system so that both the Forestry Department and the timber industry in the country could develop marketing strategies which can optimize sustainable forest management.

The workplan is expected to be received in the beginning of 1999 in order to remit the first tranche of money of US\$ 75,000. A project monitoring mission is scheduled for mid-1999.

PROJECT: PD005/94 Rev.3 (M)
 SESSION APPROVED: XVI
 SESSION FUNDED: XVI
 STATUS: OPERATIONAL
 COUNTRY: GHANA
 AGENCY: FORESTRY COMMISSION OF GHANA
 ITTO BUDGET(US\$): \$243,000.00
 STARTING YEAR: 1995

TITLE: DEVELOPMENT OF A COMPUTERIZED INFORMATION SYSTEM FOR THE FORESTRY COMMISSION OF GHANA

DESCRIPTION:

The objective of this two-year project was the enhancement of sectoral capability and capacity to formulate, plan, monitor and evaluate policies and programmes in line with the policies of the Government of Ghana. Specific objectives were to:

- i) Establish a forestry and wildlife sector information network;
- ii) Achieve an improvement in data collection in the forest sector by developing linkages with other sector institutions in order to make data processing operational and responsive;
- iii) Ensure a timely analysis of performance of the forestry sector in accordance with the formulated national forest policy;
- iv) Establish a databank on forests and wildlife resources for dissemination to sector agencies, NGOs, universities, district assemblies, local communities, forestry enterprises, etc.; and
- v) Develop the skills of the scientific staff of the Forestry Commission in planning, evaluation and monitoring using computer techniques and technologies.

Project activities were completed in October 1997. The Secretariat received the final report and audited financial statements in December 1998, which are currently under consideration. The Twenty-third Session of the Committee approved an ex-post evaluation for this project to be carried out in 1999. The projects will be declared complete in 1999.

PROJECT: PD016/93 Rev.4 (M) IV-2

TITLE: MARKET INFORMATION SERVICE FOR TROPICAL TIMBER AND TIMBER

ECONOMIC INFORMATION AND MARKET INTELLIGENCE PROJECTS

PRODUCTS

SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: ITTO
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$305,300.00
 STARTING YEAR: 1998

DESCRIPTION:

The Phase IV of the project PD 16/93 Rev.4 (M) was designed to:

- i) Strengthen the ITTO data collection network, particularly in the three producing regions: and
- ii) Further enhance ITTO price and timber trade data bases to support Situation, Trends and Prospects Studies, as specified in the ITTO Action Plan.

The second year of the Phase IV was completed in December 1998. The Committee at its Twenty-third Session in November 1998 approved additional funding for another stage in 1999 to allow ITTO to continue to produce and distribute the bi-weekly MIS report from Yokohama.

PROJECT: PD025/95 Rev.1 (M)
 SESSION APPROVED: XX
 SESSION FUNDED: XX
 STATUS: OPERATIONAL
 COUNTRY: ITTO
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$1,013,960.00
 STARTING YEAR: 1996

TITLE: TRAINING WORKSHOPS ON TROPICAL FORESTRY AND TIMBER TRADE STATISTICS

DESCRIPTION:

This project is a continuation of the series of workshops initiated under Project PD 118/90 (M) and PD 27/93 Rev.3 (M). The project's overall objective is to contribute on a continuing basis to the collection, analysis and dissemination of tropical forest resource, production and trade statistics. Its output is fundamental to the implementation of ITTO's Action Plan in the area of statistical and economic information, to the building up of ITTO's in-house statistical capability, and in assisting member countries to improve the quality of their statistics.

Given the large numbers of prospective beneficiaries, the project involves 6 regional workshops, two each in the producing regions of Africa (French), Asia-Pacific (English) and Latin America/Caribbean (Spanish). Two workshops (Asia and Latin America) were completed in 1997 and the third workshop was held from 23 March to 10 April 1998 in Abidjan; Ivory Coast with the assistance of the Ministry of Agriculture and Animal Resources. Eighteen participants from six countries (Cameroon, Central African Republic, Gabon, Ivory Coast, Togo and Democratic Republic of Congo) took part in the workshop. Lecturers were delivered by Mr. François Julien (course coordinator), local officials and the representative of ITTO. The final report of the third workshop was received in June 1998. The fourth workshop for English speaking countries was held in Chennai, India with the assistance of the M.S. Swaminathan Research Foundation from 16 November to 4 December 1998. Forty-five participants from fifteen countries (Cambodia, China, Egypt, Fiji, Ghana, Guyana, India, Indonesia, Liberia, Malaysia, Nepal, Papua New Guinea, Philippines, Thailand and Surinam) attended the workshop. Lectures were delivered by national and international experts and two representatives of ITTO. The final report of this workshop is expected by March 1999.

PROJECT: PD025/96 Rev.2 (M)
 SESSION APPROVED: XXI
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: CHINA
 AGENCY: CHINESE ACADEMY OF FORESTRY
 ITTO BUDGET(US\$): \$177,915.00
 STARTING YEAR: 1997

TITLE: CHINA'S CONSUMPTION OF FOREST PRODUCTS AND ITS DEMAND FOR THEM IN THE INTERNATIONAL MARKET BY THE YEAR 2010

DESCRIPTION:

This project proposal is a reformulation of an earlier proposal PD23/95 (M) which was reviewed by the Expert Panel at its Tenth Session in August 1995, and resubmitted as PD25/96 (M) at the Eleventh Session in February 1996. It is designed as a follow-up to a completed project PD 42/88 Rev.1 (M) which provided forecasts to the year 2000 on China's production, consumption and trade of tropical forest products. The present proposal extends the scope of that study to provide forecasts up to the year 2010, taking into account new data and developments.

In December 1998, a representative of ITTO attended at the International Workshop on the Changing International Tropical Forests Products Market Trend in 2010. The Workshop was attended by more than 60 participants and the proceeding will be published by the Chinese Academy of Science.

PROJECT: PD027/95 Rev.3 (M) II 1
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: OPERATIONAL
 COUNTRY: PERU
 AGENCY: INRENA
 ITTO BUDGET(US\$): \$478,080.00
 STARTING YEAR: 1998

TITLE: ESTABLISHMENT AND OPERATION OF A FOREST STRATEGIC INFORMATION CENTER (CIEF) - PHASE II STAGE I

DESCRIPTION:

The stage I of the phase II of this project is designed to extend the CIEF system to all regions. The objective of the CIEF was the establishment and operation of a forest strategic information center, as the basis for the sustainable development of tropical forests in the country. This center that is extending its coverage to other regions in Peru aims to offer information services through a computer network, with access to statistical/economic and imagery/cartographic database and centered on a work station system, which will allow users to communicate and manage information from the databases.

PROJECT: PD034/94 Rev.1 (M)
 SESSION APPROVED: XVI
 SESSION FUNDED: XVII

TITLE: ESTABLISHMENT AND IMPLEMENTATION OF A FOREST STATISTICAL INFORMATION SYSTEM

ECONOMIC INFORMATION AND MARKET INTELLIGENCE PROJECTS

STATUS: OPERATIONAL
COUNTRY: COLOMBIA
AGENCY: Ministry of the Environment (Formerly
INDERENA)
ITTO BUDGET(US\$): \$839,158.00
STARTING YEAR: 1996

DESCRIPTION:

This project proposes the establishment of a national forestry statistical information system under the initial tutelage of INDERENA (National Institute for Renewable Natural Resources and Environment) and eventually of the recently created Ministry for the Environment. The system will be set up to gather, process, access, store, and disseminate all information related to the forest sector which in turn will serve as a basis for forest policy development and decision-making. The project's specific objectives are to:

- i) Develop standardized statistical methods for the collection, compilation, processing and analysis of information related to this sector.
- ii) Create a centralized database to process information on reforestation, forest management, deforestation, forest harvesting, timber industries and processing, and domestic and international markets for national forest resources and products.
- iii) Implement a network of national coverage consisting of the National Statistics Department (DANE), the National Tax and Customs Directorate (DIAN), all Regional Autonomous Corporations and INDERENA's regional offices to source all relevant raw and semi-processed data.
- iv) Train key personnel belonging to the aforementioned network so as to improve the content, accuracy, collection, processing, transmission and dissemination of forest data and statistics.

Activities and outcomes are developing as planned as described in the Progress Report. The sustainability of the project seems promising since the SIEF has started the joining phase to the IDEAM (i.e. computer network connection).

The Twenty-third Committee recommended that the project be extended for three months, without additional funds, due to an unexpected delay in the implementation of the last system's modules. The last steering committee meeting is due in January 1999 when it is expected that the system will be fully tested and adjusted.

PROJECT: PD035/94 Rev.4 (M.I)
SESSION APPROVED: XVI
SESSION FUNDED: XVI
STATUS: OPERATIONAL
COUNTRY: PAPUA NEW GUINEA
AGENCY: PAPUA NEW GUINEA FOREST
AUTHORITY
ITTO BUDGET(US\$): \$409,340.00
STARTING YEAR: 1995

TITLE: FOREST PRODUCTS MARKETING ORGANIZATION FEASIBILITY STUDY

DESCRIPTION:

This project was a feasibility study for the establishment of a Wood Products Marketing Organization. The specific objectives were to assess the conceptual, institutional, technical and financial feasibility of establishing an industry-supported marketing association.

The main objectives of this Wood Products Marketing Organization were to:

- i) Identify and quantify export markets;
- ii) Gain access to foreign markets and secure orders;
- iii) Deliver orders to members based on their production capabilities;
- iv) Coordinate delivery from members to a central yard;
- v) Manage a central facility for storing, processing, grading, sorting and bundling wood products;
- vi) Provide coastal shipping services for both members' products and supplies;
- vii) Inspect members' products for compliance with market standards; and
- viii) Promote members' current and potential products.

The project had five specific milestones

- Milestone 1: Market Prospects for Processed Forest Products from Selected Resources in PNG
- Milestone 2: Logging and Processing Costs in PNG
- Milestone 3: Potential for Market Development and Promotion
- Milestones 4 and 5: Market Intelligence in the PNG Forest Authority and Review of the State Purchase Option

The project completed activities in May 1998 and submitted a six-volume final report at the end of May. The report includes key conclusions and recommendations for the PNG forest products sector in regard to potential domestic processing developments, production costs in the forest sector and opportunities for improving market development, promotion and market intelligence. The audited financial statement is expected by the beginning of 1999 when the project will be declared complete.

PROJECT: PD044/96 Rev.2 (M)
SESSION APPROVED: XXI
SESSION FUNDED: XXI
STATUS: OPERATIONAL
COUNTRY: PANAMA
AGENCY: INREARE
ITTO BUDGET(US\$): \$232,100.00
STARTING YEAR: 1997

TITLE: ESTABLISHMENT OF A FOREST STATISTICS INFORMATION SYSTEM

DESCRIPTION:

The project has been designed to establish a National Forest Statistical Information System to provide efficient flow of information to facilitate policy development and planning for the improvement of the forest sector. Its other objectives are to:

- i) Establish a database to process information and statistical data on the forest sector, including the domestic and international markets for timber and other forest resources and products;

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- ii) Train the personnel needed for the functioning of the system;
- iii) Identify and establish appropriate computer infrastructure; and
- iv) Strengthen the capabilities of the national institution responsible for forest sector development.

A first Steering Committee in March 1998 detected delays in some activities (in particular, those related to seminars and workshops) and slight progress in two more (information diagnostics). There is good interest of related institutions such as the Controlling Office and the General Customs Office to collaborate with the project and provide the required access to the information. The contribution in personnel from INRENARE to the project seems to be greater than the agreed and the personnel in the control posts are enthusiastic to follow a unique format for the forest statistical system. The steering committee advised on the best way to follow-up the project according to the workplan.

A project monitoring mission is scheduled for January 1999.

PROJECT: PD167/91 Rev.1 (M)
SESSION APPROVED: XI
SESSION FUNDED: XII
STATUS: OPERATIONAL
COUNTRY: BRAZIL
AGENCY: FUNATURA
ITTO BUDGET(US\$): \$1,743,000.00
STARTING YEAR: 1993

TITLE: DIAGNOSIS AND EVALUATION OF THE BRAZILIAN FORESTRY SECTOR

DESCRIPTION:

The objectives of this project were to:

- i) Update the data and information on the Brazilian Forestry Sector.
- ii) Analyze its evolution and environmental components, through research from primary and secondary sources.
- iii) Transfer to IBAMA methodologies of surveying and of follow-up information collection, in order to equip and enhance the planning and policy formulation capacity of the public sector.
- iv) Facilitate wider dissemination of information and data among the agents of the private and public sectors, and improve capabilities for market decisions.
- v) Integrate the data and outputs of the various instruments of data collection in the forest sector, in order to improve management and use of renewable natural resources.

A final Portuguese report and a draft English summary report were presented to ITTO in May 1998, during the Twenty-second Committee meeting in Gabon, and the financial statements were submitted by Brazil at the Twenty-third Session of the Committee which are now being reviewed. The Committee approved an ex-post evaluation for this project to be carried out in 1999. The project will be declared complete in 1999.

PROJECT: PP-A/23-63
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: ITTO
AGENCY: ITTO
ITTO BUDGET(US\$): \$98,475.00
STARTING YEAR: 1997

TITLE: ACTIVITY TO FACILITATE DEVELOPMENT OF A JOINT ITTO/ECE-FAO/EUROSTAT FOREST STATISTICS QUESTIONNAIRE

DESCRIPTION:

Pursuant to Decision 8(XXI) of the International Tropical Timber Council, ITTO convened on 7-10 September a meeting of experts to discuss issues relating to the development of a Joint Forest Statistics Questionnaire in collaboration with other organizations active in this field. Representatives from the main organizations making up the Inter-secretariat Working Group on Forest Statistics (ECE, FAO, EUROSTAT and ITTO) as well as representatives of the trade and NGOs from developed and developing countries were invited to participate.

The purpose of this expert meeting was to consider issues relating to the development of the joint questionnaire with the view to offering concrete recommendations to the Council at its Twenty-fifth Session in November 1998. It was also intended to facilitate an exchange of views on how cooperation could be forged in the field of forest statistics between ITTO and other relevant organizations, taking into account the views and inputs of stakeholders including from the trade and non-governmental organizations.

The report of the activity included a proposed joint questionnaire that had been well received by all interested parties. The Committee decided to extend this activity in order to complete the joint questionnaire in time for distribution in 1999 and to review results. The budget for this extension (included in the overall budget at left) was \$49,750. The extension of the activity will also include the upgrading of the ITTO's data-handling capacity.

PROJECT: PPD009/97 Rev.1 (M)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: PHILIPPINES

TITLE: DEVELOPMENT AND IMPLEMENTATION OF THE FORESTRY STATISTICS INFORMATION SYSTEM

DESCRIPTION:

This pre-project is designed to:

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AGENCY: FOREST MANAGEMENT BUREAU
 ITTO BUDGET(US\$): \$63,200.00
 STARTING YEAR: 1998

- i) Establish and operationalize computer-based systems that shall make available timely, reliable, and relevant information for policy formulation and decision making;
- ii) Implement manpower development programs for the forestry sector information analysis, which include personnel from the central, regional and field offices, who shall comprise the manpower required for installation and operationalization of the information systems and its computer facilities; and
- iii) Provide the organization the facilities to activate and sustain Forest Management Bureau information systems development through continuous determination, specification, evaluation and acquisition of the technical, and hardware requirements.

A monitoring mission was held in December 1998 and an advice on follow-up project proposal was given.

PROJECT: PPD008/98 (M) Rev.1
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: ECUADOR
 AGENCY: INEFAN
 ITTO BUDGET(US\$): \$40,000.00
 STARTING YEAR:

TITLE: ESTABLISHMENT OF A NATIONAL FOREST AND TIMBER MARKETING STATISTICS SYSTEM

DESCRIPTION:

This project will aim at the establishment of a National Forest Statistical Information and Timber and Timber Product Marketing System for both the domestic and international markets. The project will also facilitate the gathering, processing, storage, dissemination and access of information related to the forest sector, natural areas and wildlife, timber production and marketing, timber products, non-timber products, and flora and fauna species, as well as the preparation and training of personnel to operate the National System.

PROJECT: PD006/98 Rev.1 (M)
 SESSION APPROVED: XXV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: HONDURAS
 AGENCY: NATIONAL FOREST ADMINISTRATION,
 AFE-COIHIDEFOR
 ITTO BUDGET(US\$): \$521,744.00
 STARTING YEAR:

TITLE: ESTABLISHMENT OF A FOREST STATISTICS AND INFORMATION CENTER FOR THE IMPLEMENTATION OF SUSTAINABLE FOREST MANAGEMENT IN THE REPUBLIC OF HONDURAS

DESCRIPTION:

This project will aim at the establishment of a forest statistics and information system, which will constitute a vital tool for the implementation of sustainable forest management in the Republic of Honduras with a view to complying with the sustainable development principles stipulated in the Forestry Action Plan for Honduras (PLANFOR) and with the commitments undertaken by the Government with various international institutions and agencies. The project will have a central unit which will coordinate and operate the system in a dynamic and efficient manner, and will make the information accessible to users at different levels. In this regard, the development objective of the project is "to contribute to the socio-economic and environmental development of the country through sustainable forest activities by providing reliable, timely and easy-to-access information to government (forest and related) institutions and the private sector with a view to promoting national and foreign investment".

PROJECT: PD015/98 Rev.2 (M)
 SESSION APPROVED: XXV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: GABON
 AGENCY: DIRECTION GENERAL DES EAUX ET
 FORETS
 ITTO BUDGET(US\$): \$539,316.00
 STARTING YEAR:

TITLE: DEVELOPMENT AND INSTALLATION OF A COMPUTER MANAGEMENT SYSTEM FOR THE CONTROL OF FOREST PRODUCTION IN GABON

DESCRIPTION:

The project aims to establish a management information system contributing to the acquisition of reliable and up-to-date information concerning forest production activities, and integrating it with the different technologies and computer systems already set up within the Ministry of Waters & Forests. As a consequence, the project will put in place management and control procedures to standardize the collection, data-entry and processing of data, and to coordinate the activities of the different involved organizations, such as government authorities, trade groups, and logging companies.

PROJECT: PD019/98 Rev.1 (M)
 SESSION APPROVED: XXIV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: GUYANA
 AGENCY: FORESTRY COMMISSION
 ITTO BUDGET(US\$): \$276,075.00
 STARTING YEAR:

TITLE: DESIGN AND IMPLEMENTATION OF AN INFORMATION SYSTEM WITHIN THE GUYANA FORESTRY COMMISSION

DESCRIPTION:

This project stems from the ITTO Workshop on Forestry and Timber Trade Statistics, from 14 April to 2 May 1997. After returning from this workshop, the Guyana Forestry Commission (GFC) participants made recommendations for improving the information system within the GFC to provide an information service for the efficient management of the GFC, for the forest sector and for the public. With approval of these recommendations, an information system working group (IS WG) was formed to work out the details of setting up an information system within the GFC.

The general objective of this project is to provide access to appropriate, timely, comprehensive and accurate information for the public and to support forest sector functions allowing, for better management of Guyana's forests. The specific objective is to develop the capability within the Guyana Forestry Commission to provide an information service that meets the needs of the forest sector. Forestry sector activities are centred mainly around timber harvesting. This is due to the lack of knowledge on the values of other forest products, and thus the other values of the forest are often ignored in favour of logging of timber species. The forest sector of Guyana exports an average of 4.3% of total value adding timber extracted. Exports are centred around a few popular species often with very little processing to the timber species

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being done, which would add value to the timber. Since no comprehensive study has been done in the past, it is assumed the low exports are a result of lack of knowledge of markets for species. Increased knowledge on the uses of other species, market values and existing markets, will allow the forest sector not only to increase export volume and value but to diversify in species production allowing for sustainability of all species.

PROJECT: PD027/95 Rev.3 (M) II 2
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: PERU
AGENCY: INRENA
ITTO BUDGET(US\$): \$462,062.00
STARTING YEAR:

TITLE: ESTABLISHMENT AND OPERATION OF A FOREST STRATEGIC INFORMATION CENTER (CIEF) - PHASE II STAGE 2

DESCRIPTION:

This is the second year of the phase II of this project that aims to complete the coverage of the CIEF to all regions in Peru. The objective of the CIEF was the establishment and operation of a forest strategic information center, as the basis for the sustainable development of tropical forests in the country. This center that is extending its coverage to other regions in Peru aims to offer information services through a computer network, with access to statistical/economic and imagery/cartographic database and centered on a work station system, which will allow users to communicate and manage information from the databases.

PROJECT: PD029/97 Rev.2 (M)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GHANA
AGENCY: FOREST PRODUCTS INSPECTION BUREAU
ITTO BUDGET(US\$): \$722,100.00
STARTING YEAR:

TITLE: DEVELOPMENT OF A COMPUTERIZED TRACKING AND INSPECTION SYSTEM FOR LOGS AND PROCESSED WOOD PRODUCTS IN GHANA

DESCRIPTION:

The project is designed to increase the control of harvesting and marketing timber and wood products in Ghana, via a system of bar coded tags to allow tracking of logs from forests to mills. Final products are also proposed for tagging at mills to allow tracking of stock movements. The specific objectives of the project will be:

- i) To provide timely and reliable information for forest managers and forest administrators through the collection of regularly updated information on the production and flow of materials from the forest to the primary processing facilities and provision of relevant reports and statistics;
- ii) To guarantee the chain of custody, including reduction of illegal felling and transport operations, by an efficient control of harvesting and flows;
- iii) To facilitate the collection of timber royalties and levies by providing reliable information system on species, quantities and market values;
- iv) To promote national "quality-mark" (eco-labelling) on the wood export market which is increasingly becoming an important condition in the European market for the importation and use of tropical timber; and
- v) To facilitate independent assessment/certification of sustainable management by the introduction of a sound transparent management information system.

PROJECT: PD040/96 Rev.5 (M)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: EGYPT
AGENCY: THE CENTRAL ADMINISTRATION FOR AFFORESTATION
ITTO BUDGET(US\$): \$274,300.00
STARTING YEAR:

TITLE: THE ESTABLISHMENT OF NATIONAL FOR SURVEYING AND EVALUATING THE DATA FOR EGYPTIAN ANNUALLY IMPORTED TIMBER

DESCRIPTION:

The project is designed to establish a Forestry and Timber Statistics Unit based on computerized data, which will allow more rapid processing, better validation and provide basic information for more detailed analysis. Linked to this, it is proposed to study and monitor the operations of the sector to clarify opportunities for improving efficiency and profitability, creating new market openings and reducing costs to consumers.

PROJECT: PD052/97 Rev.2 (M)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GHANA
AGENCY: IIPA
ITTO BUDGET(US\$): \$241,924.00
STARTING YEAR:

TITLE: DEVELOPMENT AND IMPLEMENTATION OF AN EDUCATIONAL PROGRAM TO INFORM THE WOOD PRODUCTS DISTRIBUTION CHAIN ON THE VALUE OF USING TROPICAL TIMBERS FROM ITTO MEMBER COUNTRIES

DESCRIPTION:

The International Wood Products Association (IIPA) will aim to undertake a literature development and distribution program about the benefits of purchasing products containing tropical woods. This would be directed at industry buyers, specifiers, wholesalers, distributors and retailers (the "distribution chain") in the United States.

This program will include a survey to evaluate the effectiveness of the program and its potential for broad applications to other products and markets. IIPA proposes that, based on analysis of the program, ITTO could choose to conduct seminars to share the results with producer and consumer countries for possible application to other markets.

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PROJECT: PD001/93 Rev.1 (M.F.I)
SESSION APPROVED: XIV

TITLE: ITTO FELLOWSHIP PROGRAM - PHASE II

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SESSION FUNDED: XIV
 STATUS: OPERATIONAL
 COUNTRY: ITTO
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$2,579,350.00
 STARTING YEAR: 1993

DESCRIPTION:

This two-year project continues the work begun under the first phase of the Fellowship Program [PD60/89 (M.F.I)]. Its primary objective is the promotion of human resources development and institutional strengthening of the forestry sectors of member countries.

Fellowships are awarded preferentially to holders of technical diplomas, bachelor's degrees or master's degrees who are wishing to further their education through graduate or professional degree programs, conferences, study-tours, and other forms of academic study. Selection criteria include conformity with the objectives of the Program and ITTO's Action Plan, expected benefits for the forestry sectors of producer member countries, and high probability of the candidate being able to publish his or her results in an ITTO publication or scientific journal, among others.

PROJECT: PD003/96 Rev.2 (I)
 SESSION APPROVED: XX
 SESSION FUNDED: XX
 STATUS: OPERATIONAL
 COUNTRY: CHINA
 AGENCY: CRIWI
 ITTO BUDGET(US\$): \$214,798.00
 STARTING YEAR: 1996

TITLE: DEVELOPMENT AND EXTENSION OF RUBBERWOOD PROCESSING AND UTILIZATION TECHNOLOGY

DESCRIPTION:

This 2-year project will study and disseminate timber processing and utilization technologies to improve the efficiency and competitiveness of rubberwood industries in China. The work will focus on the study and selection of appropriate rubberwood preservation (boron-based chemicals and fire retardants) and kiln-drying technologies. The selected technologies will be disseminated to the rubberwood industry through training courses offered to industry staff, who will also have the opportunity to participate in selected fairs, conferences and seminars.

To complete the project, a workshop/seminar will be convened to further disseminate its results.

PROJECT: PD007/94 Rev.3 (M.I)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: BRAZIL
 AGENCY: SINDIMAD
 ITTO BUDGET(US\$): \$1,028,625.00
 STARTING YEAR: 1998

TITLE: INFORMATION AND TECHNICAL ASSISTANCE FOR PRODUCTION AND TRADE ON TROPICAL TIMBER

DESCRIPTION:

This 4-year project will implement technical assistance, training and information development activities to promote increased trade on sustainable tropical timber between Brazil and selected consumer countries (UK, USA, the Netherlands and Japan). The project's specific objectives are: (i) to provide technical assistance to selected timber processing/exporting companies with a view to ensure that the timber volumes they trade are sustainably sourced and produced; and (ii) to make available to governments and to the general public appropriate and reliable information on export products and production regime (sustainability) of tropical timber traded internationally by selected companies from Brazil, UK, USA, the Netherlands and Japan.

The project will focus on mahogany production and trade and will include an international conference on mahogany to review and discuss mahogany ecology, silviculture, processing, utilization and trade.

PROJECT: PD007/97 Rev.2 (I)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: BRAZIL
 AGENCY: BRAZILIAN PLYWOOD AND INDUSTRIALIZED WOOD ASSOCIATION
 ITTO BUDGET(US\$): \$202,560.00
 STARTING YEAR: 1998

TITLE: III PLYWOOD AND TROPICAL TIMBER INTERNATIONAL CONGRESS

DESCRIPTION:

This six-month project will plan and convene in Belem, Brazil, an international congress on plywood and tropical timber. The congress will follow-up on two earlier ones organized by Brazilian Timber Industry Associations and held in Manaus (1992) and Belem (1994). The proposed conference will focus on sustainable development of the timber industry. The conference work will be organized in three sessions, covering forestry issues, timber industrialization, and market and economics. The congress program and paper will focus on policies and measures which can contribute to the sustainable development of the timber industry, particularly through increases in its competitiveness and profitability.

Five hundred participants from the timber industry, government and conservation NGOs are expected to attend the congress, which will be convened in November 1997.

PROJECT: PD012/98 Rev.2 (I)
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: OPERATIONAL
 COUNTRY: GHANA
 AGENCY: TIMBER EXPORT DEVELOPMENT BOARD
 ITTO BUDGET(US\$): \$237,375.00
 STARTING YEAR: 1998

TITLE: MANPOWER DEVELOPMENT FOR THE GHANA WOOD INDUSTRY TRAINING CENTRE (WITC)

DESCRIPTION:

This 3-year project will implement training and technical assistance activities to strengthen Ghana's Wood Industry Training Center (WITC). The technical level of WITC staff and the Center's capacity to offer extension services to the industries will be improved, with emphasis on kiln drying, veneering, plymilling, moulding, and furniture manufacture. The planned training and technical assistance activities include: assessment of training and manpower development needs of the wood industry and WITC; financing WITC resources persons participation in suitable training courses, training internships and in other training events as appropriate; attaching selected consultants to WITC on a short term basis; and reviewing and reorienting WITC's library and information service.

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PROJECT: PD013/95 Rev.3 (I)
 SESSION APPROVED: XX
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: FINLAND
 AGENCY: FTP
 ITTO BUDGET(US\$): \$647,739.00
 STARTING YEAR: 1998

TITLE: CAPACITY BUILDING IN TRAINING IN PLANNING AND MANAGEMENT
 OF FOREST INDUSTRIES IN ITTO PRODUCER MEMBER COUNTRIES -
 PHASE I

DESCRIPTION:

This 39 month project will implement training activities to follow-up on a previous ITTO training project PD 4/87 Rev.1 (I) "Training in Planning and Management of Forests Industries in Developing Countries".

Project PD 4/87 Rev. 1 (I) prepared training materials on planning and management of appropriate forest industries and convened a series of regional training workshops in the ITTO producing regions. The proposed follow-up project will provide an opportunity for the Forestry Training Program to work more closely with local training institutes in the development of training curricula and in strengthening their capability to arrange and offer training courses on a continuous basis. The project will initially (Phase I) study wood industries, training activities and training institutes in ITTO producer member countries. After initial screening a number of training institutes will be selected for further analysis and development. The process of strengthening the institutes will include distant education, further assessment of institutes performance, assessments of training needs, and three regional workshops. Development plans for four selected institutes will be prepared.

Phase II will allow implementation of four regional sub-projects covering the four selected training institutes. These sub-projects will have similar programs, including initial regional seminars of two weeks each. A teacher training course where teachers for subsequent training events will be trained will follow. The final training event of each sub-project will be a pilot workshop arranged by the counterpart training institute, mainly using the human resources trained during the project. A total of eighty managers of wood industry enterprises will be trained in planning and management of forest industries, in addition to the forty education professionals that will participate in the teacher training courses.

PROJECT: PD015/96 Rev.2 (M.I)
 SESSION APPROVED: XX
 SESSION FUNDED: XX
 STATUS: OPERATIONAL
 COUNTRY: PHILIPPINES
 AGENCY: FPRDI
 ITTO BUDGET(US\$): \$345,196.00
 STARTING YEAR: 1997

TITLE: UTILIZATION, COLLECTION AND TRADE OF TROPICAL WOOD-
 FOREST PRODUCTS IN THE PHILIPPINES

DESCRIPTION:

This 2-year project will collect and make available information on the production, trade and utilization of non-wood forest products (bamboo, rattan, palms, vines, bast fibers, almaciga resin, etc.) in two selected forest areas in the Philippines (western Samar and Luzon). The project will also provide information on the regeneration pattern and cycle of important non-wood forest products, and sustainable-yield collection practices will be recommended to local communities.

The project will also identify problems forest dwellers face in their trade and recommend and introduce appropriate improved methods of collection, processing and storage.

Finally, the project will prepare a comprehensive report relating the collection, processing, utilization and trade of non-wood forest products to sustainable forest management, based on the assessments made in the two selected areas under study.

PROJECT: PD015/97 Rev.2 (I)
 SESSION APPROVED: XXI
 SESSION FUNDED: XXIII
 STATUS: OPERATIONAL
 COUNTRY: PANAMA
 AGENCY: INRENARE
 ITTO BUDGET(US\$): \$58,975.00
 STARTING YEAR: 1998

TITLE: STRATEGIC PLAN FOR THE UPGRADING OF THE INDUSTRIAL
 FORESTRY INFRASTRUCTURE OF PANAMA

DESCRIPTION:

The objective of this project is to promote and encourage the required adjustment of the primary and secondary forest industries of Panama through the adoption of appropriate processing technologies; this upgrading process shall be promoted through a strategic plan focusing on technical assistance, training and the transfer of practical information on the characteristics and processing techniques of raw materials, as well as on the marketing of diversified forest products.

PROJECT: PD017/93 Rev.3 (M.F.I)
 SESSION APPROVED: XIV
 SESSION FUNDED: XIV
 STATUS: OPERATIONAL
 COUNTRY: ITTO
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$4,369,846.00
 STARTING YEAR: 1994

TITLE: ITTO NETWORK FOR INFORMATION SHARING AND PROJECT SUPPORT
DESCRIPTION:

This project established a network service to increase availability and flow of information within ITTO member countries by establishing an ITTO presence in each of the three producing regions to improve the effectiveness of ITTO activities in these regions. The project specific objectives are: (i) establish a service for collection and dissemination of information, and prepare and distribute a newsletter covering the three main fields of ITTO activities, namely reforestation and forest management, economic information and market intelligence, and forest industry; and (ii) to improve ITTO's representation and to enhance specific aspects of ITTO's operational activities in producing regions. These activities include the following: 1) strengthen the secretariat's ability to monitor specific projects as requested and instructed by the Executive Director; 2) facilitate and provide information and planning assistance to project preparation and evaluation in producing regions; 3) represent ITTO in conferences, seminars and other meetings as instructed by the Executive Director; and 4) facilitate efforts by member governments to collect information to be used in the Council's annual review and assessment of

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the world tropical timber situation.

PROJECT: PD020/95 Rev.2 (I)
SESSION APPROVED: XVIII
SESSION FUNDED: XVIII
STATUS: OPERATIONAL
COUNTRY: CHINA
AGENCY: INSTITUTE OF BOTANY, ACADEMY OF
SCIENCE
ITTO BUDGET(US\$): \$83,435.00
STARTING YEAR: 1996

TITLE: CHEMICAL MODIFICATION OF BAMBOO CULMS AND THEIR
RESISTANCE TO WEATHERING

DESCRIPTION:

This 4-year project is researching the use of chemicals to improve bamboo dimensional stability and resistance to biodegradation. The research work will focus on five selected species from Southeast Asia (*Bambusa sinospinosa*, *Phyllostachys pubescens*, *Phyllostachys bambusoides*, *Pseudosasa amabilis*, *Sinocalamus latiflorus*). Laboratory research work and field weathering tests will be preceded by a comprehensive literature survey and by study tours to selected overseas research institutes with recognized knowledge and experience in chemical modification of wood and wood materials.

The project will prepare a technical report on chemically modified bamboos, with information on the selected chemicals and their effects, modification processes, properties of modified bamboos under various conditions, and potential industrial applications of the various chemical treatments and modified bamboos.

PROJECT: PD021/95 Rev.2 (I)
SESSION APPROVED: XVIII
SESSION FUNDED: XVIII
STATUS: OPERATIONAL
COUNTRY: CHINA
AGENCY: INSTITUTE OF BOTANY
ITTO BUDGET(US\$): \$88,620.00
STARTING YEAR: 1996

TITLE: COMPREHENSIVE STUDIES OF THE STRUCTURE AND PROPERTIES OF
RATTANS FOR EFFECTIVE UTILIZATION

DESCRIPTION:

This 4-year project is carrying out literature studies and research work on rattans to facilitate their import and use by consumers, particularly Chinese consumers. The project will prepare a research report, and establish a data bank with information on structure, physical, mechanical and chemical properties, industrial processing, and utilization of the various species of rattan imported from Southeast Asia.

Project funds requested from ITTO will be mainly used to finance collection of rattan samples in Southeast Asia and laboratory research expenditures in China, as well as to allow study tours to overseas research institutes with recognized experience and knowledge on rattan and rattan research.

PROJECT: PD024/95 Rev.1 (I)
SESSION APPROVED: XIX
SESSION FUNDED: XXI
STATUS: OPERATIONAL
COUNTRY: CHINA
AGENCY: CRIWI
ITTO BUDGET(US\$): \$112,000.00
STARTING YEAR: 1997

TITLE: THE IDENTIFICATION, PROPERTIES AND USES OF THE TROPICAL
TIMBER IMPORTED TO CHINA FROM LATIN AMERICA

DESCRIPTION:

The development objectives of the project are to conduct research on the identification, properties and uses of imported and importable timber from Latin America with the goal of increasing the effective utilization of tropical timber and promotion of the trade between the PRC and producing countries in Latin America. The specific objectives are to compile and disseminate information (in Chinese) to potential importers and users of tropical timber. The study will assist the Chinese consumer by providing basic information on the macrostructure and microstructure of the different species. The project duration is for thirty-six months with specimen collection taking place over the first 18 months and analysis beginning in the seventh month.

PROJECT: PD031/96 Rev.2 (M.F.I)
SESSION APPROVED: XX
SESSION FUNDED: XXI
STATUS: OPERATIONAL
COUNTRY: MYANMAR
AGENCY: FOREST DEPARTMENT
ITTO BUDGET(US\$): \$495,533.50
STARTING YEAR: 1997

TITLE: INTRODUCING MYANMAR'S LESSER-USED TIMBER SPECIES TO THE
WORLD MARKET

DESCRIPTION:

This 3-year project will carry out forest inventory work and timber properties research in order to promote the utilization and trade of Myanmar's lesser-used species. The forest inventory work will provide information on volume and distribution of Myanmar's non-teak tropical hardwood species from the project area made up of 50,000 ha of tropical forest situated in the middle of Myanmar (Bago Yoma region). The selection of promising LUS will be followed by the results of the inventory.

The research will focus on testing of wood properties and end-uses on selected LUS, a survey of major domestic markets and sample finished products of LUS for public demonstration. The project will also prepare market promotion materials such as handbooks, pamphlets, video tapes to improve the utilization and trade of LUS.

A seminar will be organized to discuss and disseminate the project results.

PROJECT: PD033/95 Rev.3 (M.F.I)
SESSION APPROVED: XIX
SESSION FUNDED: XIX
STATUS: OPERATIONAL
COUNTRY: GIANA
AGENCY: MINISTRY OF LANDS AND FORESTRY
ITTO BUDGET(US\$): \$138,205.00
STARTING YEAR: 1996

TITLE: IMPACTS OF INCREASED UTILIZATION OF LESSER-USED SPECIES (LUS)

DESCRIPTION:

The development objective of this 24-month project is to identify the complexities and variations in LUS utilization by studying the current extent of production; compiling scientific information on the environmental and silvicultural impacts of harvesting LUS; to study the socio-economic impacts of forest operations; to analyze the marketing implications; and to develop criteria for LUS management within the scope of sustainable forestry.

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Building on the suite of ITTO and other agency projects that have examined lesser-used species, the project methodology is based on: (i) conducting an extensive literature review, (ii) gathering information from experts in producer and consumer countries on the production, utilization, marketing and socio-environmental consequences of LUS utilization, and (iii) producing a video documentation of LUS utilization, which will lead to drafting recommended LUS criteria and guidelines. Of particular interest will be the ecological impact of increased LUS utilization on the forest ecosystem, industry investment, forest management practices and conversion technology at the mill site. As a result, market opportunities will be suggested. The project objectives will be achieved by field visits to key research and management institutes, industrial organizations and logging sites in Ghana as well as one representative country in each of the three ITTO regions. Criteria for the selected countries will be based on current LUS utilization and previous ITTO project work on LUS.

The project is conceived to fill the current gaps in LUS studies, particularly in the area of forest ecology, the socio-economic impacts and the long-term sustainability of supply. A key output will be proposals for long-term monitoring of LUS, as well as, ecological, social and environmental impact assessment reports at project mid-life, an extensive video documentation of LUS utilization, and a manual and draft guidelines for LUS utilization.

PROJECT: PD033/96 Rev.2 (M.F.I)
 SESSION APPROVED: XX
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: PHILIPPINES
 AGENCY: FPRDI
 ITTO BUDGET(US\$): \$139,787.50
 STARTING YEAR: 1998

TITLE: WORKSHOP ON NONDESTRUCTIVE TESTING OF TROPICAL TIMBER

DESCRIPTION:

This 1-year project will organize and convene a workshop to promote use of non-destructive testing for improving the quality control of wood products and inspection of timber structures in tropical timber producing countries. The proposed workshop will bring together researchers and practitioners to learn new technologies and discuss non-destruction methods and research needs for more efficient use of tropical timber. It is envisaged that the workshop will lead to the development and implementation of tropical timber non-destructive testing procedures in participating countries.

A minimum of 15 participants will attend the workshop, 10 of which will be sponsored by the project and include the following representatives: PNG (1); Malaysia (3); Indonesia (2); Fiji (1); Thailand (1); Africa (1); and Latin America (1).

PROJECT: PD037/94 Rev.3 (I)
 SESSION APPROVED: XX
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: BRAZIL
 AGENCY: IBAMA
 ITTO BUDGET(US\$): \$556,703.00
 STARTING YEAR: 1998

TITLE: STRENGTHENING OF THE FOREST PRODUCTS LABORATORY OF IBAMA

DESCRIPTION:

This 2-year project will carry out a series of activities with two distinct objectives: (i) modernization and strengthening of the forest products laboratory (LPF), and (ii) improvement of timber identification and standardization of timber products.

The activities designed to strengthen and modernize the forest products laboratory include the preparation of a long term research program, the preparation and implementation of a human resources development plan; selection and procurement of complementary laboratory equipment; and establishment of a data bank.

Timber identification and standardization activities include the preparation of identification sheets for Brazilian timber species listed by CITES, and the preparation of basic timber standard texts in cooperation with the national association for technical standards.

The project proposal has been prepped under ITTO pre-project study entitled "Institutional Strengthening of IBAMA's Forest Products Laboratory" [PCI(VII)/6]. The results of this pre-project are reported in ITTO document PPR 33/94 (I).

PROJECT: PD039/93 Rev.4 (I)
 SESSION APPROVED: XVIII
 SESSION FUNDED: XVIII
 STATUS: OPERATIONAL
 COUNTRY: MALAYSIA
 AGENCY: FRIM
 ITTO BUDGET(US\$): \$1,318,196.00
 STARTING YEAR: 1997

TITLE: RESEARCH AND DEVELOPMENT IN ENERGY ALTERNATIVE FROM BIOMASS (WOOD AND AGRICULTURAL RESIDUES) THROUGH BRIQUETTING, GASIFICATION AND DIRECT COMBUSTION

DESCRIPTION:

This three-year project aims to introduce and transfer biomass energy technologies to the commercial sector. The project will apply and adapt biomass energy systems as commercial demonstration projects in briquetting, gasification, and suspension burning of particulates for process heat and/or power. Project activities include carrying out a technical and economic survey on the availability of biomass energy technologies in the commercial sector and an assessment of the availability of wood residues, palm oil trunks, palm kernel shells and rice husks as feedstock. The project will identify at least three potential commercial collaborators for demonstration of the briquetting, gasification and suspension burning technology and carry out detailed equipment designs/specifications for building demonstration plants.

The proposed work includes liaison with industry and plant manufacturers on the fabrication and installation of the units; obtaining costs and evaluating financial viability of the selected technologies; devising a strategy for the replication of the technology within the commercial sector and disseminating the results to other countries in the region; and provision of economic advice and technical support services to each demonstration plant through the three-year project

FOREST INDUSTRY PROJECTS

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PROJECT: PD046/96 Rev.2 (I)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: GHANA
 AGENCY: FURNITURE AND WOOD PRODUCTS
 ASSOCIATION, GHANA
 ITTO BUDGET(US\$): \$486,355.00
 STARTING YEAR: 1998

TITLE: ESTABLISHMENT OF A WOOD WORKERS AND CRAFTSMANSHIP
 VILLAGE

DESCRIPTION:

This five-year project will build a wood furniture and craftsmanship village to relocate about 60 small wood processing and furniture industries from metropolitan Kumasi, Ghana. The relocated industries will be served by common facilities which include a kiln dryer, a saw doctoring shop, and moulding, laminating and finishing units. A corporation (KWEL) will be set up to run these facilities and to provide the village with the necessary administrative and technical support and back-up services on a commercial basis. The services will include marketing assistance to promote exports by furniture industries participating in the project. The services of the common processing facilities will be available to all companies which relocate in the village.

Results of a feasibility study included in the project proposal indicate that the establishment of the village and common processing facilities is economically feasible. ITTO funds will be used primarily to finance the initial operation of the village: the civil construction and setting up of service shops; the purchase vehicles and office costs; and the provision of technical assistance (consultants).

PROJECT: PD047/94 Rev.3 (I)
 SESSION APPROVED: XIX
 SESSION FUNDED: XIX
 STATUS: OPERATIONAL
 COUNTRY: HONDURAS
 AGENCY: COINDEFOR
 ITTO BUDGET(US\$): \$735,335.00
 STARTING YEAR: 1996

TITLE: INDUSTRIAL UTILIZATION OF LESSER-KNOWN FOREST SPECIES IN
 SUSTAINABLY MANAGED FORESTS

DESCRIPTION:

This three-year project is implementing ecological research, industrial research and marketing and training activities to promote utilization of 25 lesser-known species from Honduras. Timber from these species is expected to be produced by implementing forest management plans prepared by COINDEFOR within the 'Broadleaved Forest Development Project (BFDPP)', supported by the Canadian International Development Agency (CIDA).

The BFDPP areas is made up of 110,000 ha of tropical forest situated in the north of Honduras. Timber will be sustainably produced by local farmers, with simple technologies of very low environmental impact, in 10 integrated management areas (IMA), which are physically demarcated in the field and are under the care of local communities.

PROJECT: PD058/97 Rev.1 (I)
 SESSION APPROVED: XXI
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: JAPAN
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$502,032.00
 STARTING YEAR: 1998

TITLE: THE ESTABLISHMENT OF THE DATABASE OF TROPICAL INDUSTRIAL
 LESSER USED WOOD SPECIES

DESCRIPTION:

This two-year project will make a comprehensive database with available information on tropical timber species, especially lesser-used species, by compiling existing data and relevant information collected within projects funded by ITTO and other national and international schemes. The core of the data bank information will come from a number of projects financed by ITTO aiming at introducing lesser-used species (LUS) to the national and international markets. An assessment of the results of these projects show a lack of unity in the information presentation format and language. To facilitate access and search for information, the project will compile and present the existing data and information in the same format and language, making them available in a convenient media.

The data bank will be established in CD-ROM, in the English language. Manuals and printed material will also be produced and disseminated to all ITTO members and interested parties. It will include information on timber physical and mechanical characteristics, current growth stock estimates, latest prices, and present and potential uses.

The project proposes that ITTO be responsible for the future operation and maintenance of the data bank, sub-contracting the updating work needed as new/additional data becomes available.

PROJECT: PD073/89 (M.F.I)
 SESSION APPROVED: VII
 SESSION FUNDED: VII
 STATUS: OPERATIONAL
 COUNTRY: JAPAN
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$1,753,400.00
 STARTING YEAR: 1990

TITLE: ASSISTANCE FOR PROJECT IDENTIFICATION AND FORMULATION

DESCRIPTION:

The objective of this project is to improve project identification and formulation capabilities of the responsible personnel in ITTO producer member countries in order to expand national absorption capacity for investment and aid in the forestry sector. The project is closely linked to other ITTO activities, in particular, the Expert Panel and the Project Cycle consultancies, which together comprise a multiple approach to seeking excellence in the structure and implementation of the Project Cycle. The project itself includes training workshops, special country missions, and independent consultancies to assist Members with project formulation.

PROJECT: PD094/90 Rev.3 (I)
 SESSION APPROVED: X
 SESSION FUNDED: X
 STATUS: OPERATIONAL

TITLE: INTEGRATION OF FOREST-BASED DEVELOPMENT IN THE WESTERN
 AMAZON, PHASE II - TECHNOLOGY FOR SUSTAINABLE UTILIZATION
 OF RAW FOREST MATERIALS

FOREST INDUSTRY PROJECTS

COUNTRY: BRAZIL
 AGENCY: FUNTAC
 ITTO BUDGET(US\$): \$1,900,000.00
 STARTING YEAR: 1993

DESCRIPTION:

This 3-year project is designed to implement a forest management plan and initiate the industrial processing and utilization of timber and non-timber raw materials to be sustainably produced in the Antimari State Forest (Acre, Brazil). The proposed forest industry development will be based on the results of the socio-economic and environmental studies and preliminary forest management guidelines prepared in the project phase I [ITTO project PD 24/88 (F), Integration of Forest-Based Development in the Western Amazon - Phase I - Forest Management to Promote Policies for Sustainable Production].

PROJECT: PD107/90 (I)
 SESSION APPROVED: IX
 SESSION FUNDED: XII
 STATUS: OPERATIONAL
 COUNTRY: MALAYSIA
 AGENCY: FORESTRY DEPARTMENT, SARAWAK
 ITTO BUDGET(US\$): \$462,577.50
 STARTING YEAR: 1992

TITLE: STRATEGIES FOR SUSTAINABLE WOOD INDUSTRIES IN SARAWAK

DESCRIPTION:

This 13-month project is preparing a sector plan for the development of forest industries in Sarawak. The project work plan includes the following steps: (i) review and update market studies; (ii) determine the current (and currently proposed) capacity of the wood processing industry; (iii) determine forest management units and assess their production potential; (iv) determine the product mix which will optimize the economic return to the State; and (v) recommend changes to enable the forest sector to produce the optimum product mix.

PROJECT: PD109/90 Rev.4 (I)
 SESSION APPROVED: XII
 SESSION FUNDED: XII
 STATUS: OPERATIONAL
 COUNTRY: COTE D'IVOIRE
 AGENCY: SODEFOR
 ITTO BUDGET(US\$): \$680,400.00
 STARTING YEAR: 1994

TITLE: ASSISTANCE TO MODERNIZATION, RESTRUCTURING AND DEVELOPMENT OF WOOD-BASED INDUSTRIES IN COTE D'IVOIRE

DESCRIPTION:

This 3-year project will provide Cote d'Ivoire with an overview on which the planning and execution of a detailed forest sector development plan can be based. A technical and economic assessment of existing timber industries will be carried out to link industry development to sustainable wood supply from five selected forest management units.

PROJECT: PD179/91 Rev.2 (I)
 SESSION APPROVED: XII
 SESSION FUNDED: XII
 STATUS: OPERATIONAL
 COUNTRY: GHANA
 AGENCY: FORIG
 ITTO BUDGET(US\$): \$985,273.00
 STARTING YEAR: 1993

TITLE: INDUSTRIAL UTILIZATION AND IMPROVED MARKETING OF SOME GHANAIAN LESSER-USED TIMBER SPECIES FROM SUSTAINABLY MANAGED FORESTS

DESCRIPTION:

This 3-year project is implementing industrial utilization and marketing research activities to promote production, trade and consumption of products manufactured with lesser-used Ghanaian tropical timber species for which inventory data and technical properties information are available. While the project focus is on product development research and market studies, research on the environmental impact of harvesting lesser-used species at various intensity levels is also included. Dissemination of the technologies developed and other project results to forest industries of Ghana and selected countries in the region will occur through training workshops, seminars, and publications.

PROJECT: PD209/91 Rev.2 (I)
 SESSION APPROVED: XII
 SESSION FUNDED: XII
 STATUS: OPERATIONAL
 COUNTRY: DEMOCRATIC REPUBLIC OF CONGO
 AGENCY: CENTER FOR TIMBER PROMOTION
 ITTO BUDGET(US\$): \$695,116.00
 STARTING YEAR:

TITLE: STUDY OF ZAIRIAN TIMBER WITH A VIEW TO PROMOTING CERTAIN SPECIES

DESCRIPTION:

This five-year project will contribute to restructuring and strengthening the Congolese Center for Timber Promotion and assist with the implementation of research and marketing activities to promote the utilization and trade of Congolese lesser-known species.

Contractual arrangements for project implementation were finalized in February 1993, but because of difficult working conditions in the country field implementation has not started.

PROJECT: PPD004/98 Rev.1 (I)
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: OPERATIONAL
 COUNTRY: THAILAND
 AGENCY: FOREST RESEARCH OFFICE, ROYAL FOREST DEPT. OF THAILAND
 ITTO BUDGET(US\$): \$89,886.00
 STARTING YEAR: 1998

TITLE: PROMOTION OF TROPICAL NON-WOOD FOREST PRODUCTS IN THAILAND

DESCRIPTION:

This 1-year pre-project will survey non-wood forest products (NWFP) resources and their utilization and trade in four selected forest areas in Thailand (Phue an-Thuri, Ban-Samakae, Ban-Paa, and Ban-Laeng). Data and information will be collected on NWFP availability, collection and harvesting methods, uses, marketing procedures, and markets. The socio-economic situation of forest dwellers engaged in NWFP collection, processing, storage and sale will also be assessed.

The survey and assessment results will be discussed in a 5-day workshop planned to promote development of sustainable production and trade on NWFP in Thailand. The workshop is also expected to prepare a project proposal to follow-up on recommendations which will be brought forth by the pre-project studies and discussions.

PROJECT: PPD012/96 Rev.1 (M.I)
 SESSION APPROVED: XXI
 XXI

TITLE: DEVELOPMENT AND IMPLEMENTATION OF STRESS GRADING RULES FOR TROPICAL TIMBER

FOREST INDUSTRY PROJECTS

SESSION FUNDED:
 STATUS: OPERATIONAL
 COUNTRY: PHILIPPINES
 AGENCY: FPRDI
 ITTO BUDGET(US\$): \$50,957.00
 STARTING YEAR: 1998

DESCRIPTION:

This pre-project will assess the viability of implementing stress grading rules for tropical timber used by the construction industry in the Philippines. The assessment comprises of an exhaustive technical review of stress grading systems applicable to tropical timber, determination of the required effectiveness of a stress grading system appropriate for the Philippine situation and an economic analysis.

PROJECT: PPD050/91 (I)
 SESSION APPROVED: XI
 SESSION FUNDED: XI
 STATUS: OPERATIONAL
 COUNTRY: DEMOCRATIC REPUBLIC OF CONGO
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$44,000.00
 STARTING YEAR: 1992

TITLE: PROVISION OF ASSISTANCE FOR REASSESSMENT AND REFORMULATION OF ZAIRIAN PROJECT PROPOSALS PD205/91 (I) "NATIONAL SAW MAINTENANCE CENTRE." AND PD209/91 (I) "STUDY OF ZAIRIAN TIMBER WITH A VIEW TO PROMOTING CERTAIN SPECIES"

DESCRIPTION:

In coordination with the Zairian TFAP follow-up unit, this pre-project is assisting the Government of Zaire in preparing project proposals for presentation to ITTO, under the following terms of reference: (i) assess the wood production situation in Zaire, including the status and prospects for utilization and promotion of lesser-used species; (ii) on the basis of the findings of activity (i) and taking account the Zairian institutional capability and institutional support that may be needed, develop the project profile presented under PD 209/91 into a full project proposal; (iii) review and assess availability of appropriate saws and sawdoctoring training needs in Zaire and prepare recommendations for action to fill gaps, in light of ITTO priorities set up in the Action Plan. The planned activities may include the development of a full project proposal based on the profile presented under PD 205/91.

PROJECT: PD044/98 Rev.2
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: GHANA
 AGENCY: FORESTRY RESEARCH INSTITUTE OF GHANA (FORIG)
 ITTO BUDGET(US\$): \$197,549.00
 STARTING YEAR: 1999

TITLE: HANDBOOK ON TREE AND WOOD IDENTIFICATION OF 100 LESSER-USED AND LESSER-KNOWN TIMBER SPECIES FROM TROPICAL AFRICA WITH NOTES ON ETHNOGRAPHY SYLVICULTURE AND USES

DESCRIPTION:

This 2-year project will prepare and publish a timber description and identification handbook covering 120 tropical timber species from Ghana and other African countries. In addition to data and information related to the quantitative and qualitative macroscopic description and other physical features (density, color, odor, etc.), the handbook will include information on the species distribution, morphology, ecology, silviculture and uses.

The scientific work related to the collection, identification and description of the wood samples and compilation/assessment of other technical information to be included in the handbook will be carried out by a team of wood researchers and technologists from the joint implementing agencies (FORIG and SFIT).

PROJECT: PPD001/98 Rev.2 (I)
 SESSION APPROVED: 24
 SESSION FUNDED:
 STATUS: PENDING AGREEMENT
 COUNTRY: THAILAND
 AGENCY: ROYAL FOREST OFFICE, ROYAL FOREST DEPT. OF THAILAND
 ITTO BUDGET(US\$): \$82,290.00
 STARTING YEAR: 1999

TITLE: RUBBERWOOD UTILIZATION AND MARKETING IN THAILAND

DESCRIPTION:

This 10-month pre-project will formulate a strategic plan to promote and encourage adjustment and further development of the rubberwood processing industry in Thailand. In order to formulate the plan, the pre-project will carry out an assessment of the current situation of the rubberwood industry in the country and organize and convene two workshops for consultations and discussions.

A project outlining a work strategy and proposing implementation of selected activities designed to assist improving rubberwood processing and marketing will also be formulated under this pre-project.

PROJECT: PPD005/98 Rev.2 (M.I)
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: PENDING AGREEMENT
 COUNTRY: PERU
 AGENCY: NATIONAL FORESTRY CHAMBER (CAMARA NACIONAL FORESTAL)
 ITTO BUDGET(US\$): \$53,805.00
 STARTING YEAR: 1999

TITLE: TECHNICAL ASSISTANCE TO INCREASE PRODUCTION AND IMPROVE COMPETITIVENESS IN THE TIMBER AND FURNITURE INDUSTRIES OF PERU

DESCRIPTION:

This 6-month pre-project study will prepare a technical assistance and training program for the development of the timber and furniture industry in Peru. The current situation of the industry will be studied, and its efficiency, productivity and competitiveness will be assessed. Identified technical assistance and training needs and proposals to improve the situation will be discussed in a workshop, with participation of experts, representatives of industry and non-government organizations.

A project proposal addressing technical assistance and training needs of the timber industry will be prepared for submission to ITTO.

PROJECT: PPD013/98 Rev.2 (I)
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT

TITLE: ASSESSMENT OF FOREST INDUSTRY TRAINING NEEDS

DESCRIPTION:

This 6-month pre-project will survey and assess the training needs of the forest industry sector in Fiji. The studies will include a review of existing and required skills and training

FOREST INDUSTRY PROJECTS

COUNTRY: FIJI
 AGENCY: FIJI FORESTRY DEPARTMENT
 ITTO BUDGET(US\$): \$50,013.00
 STARTING YEAR: 1999

resources/facilities, followed by the formulation of a training strategy for the forest industry sector. The results of these studies will be discussed in a workshop with participation of all major stakeholders in the forest industry sector.

Based on the results of the pre-project studies and workshop, a project proposal to provide technical assistance and skills training for the forest industry sector will be prepared and submitted to ITTO.

PROJECT: PPD015/98 Rev.2 (I)
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: GABON
 AGENCY: WATER AND FOREST RESOURCES
 DEPARTMENT/ATO
 ITTO BUDGET(US\$): \$222,078.00
 STARTING YEAR: 1999

TITLE: JOINT ATO/ITTO CONFERENCE ON FURTHER PROCESSING OF AFRICAN TROPICAL TIMBER

DESCRIPTION:

This 3-month pre-project will organize and convene a joint ATO/ITTO conference on further processing of African tropical timber. The conference will be preceded by studies (i) to review current market and industrialization trends related to African tropical timbers, and (ii) to analyze past and present industrialization experiences in African, viz a viz the experiences of southeast Asia and Latin America.

A working document with recommending strategies to enhance industrialization in Africa will be prepared and distributed to participants prior to the conference.

The organization and convening of this conference will provide an opportunity to strengthen cooperation between ATO and ITTO and to promote investment in the African timber processing industries.

PROJECT: PD020/98 Rev.1 (I)
 SESSION APPROVED: XXIV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: MYANMAR
 AGENCY: MYANMA TIMBER ENTERPRISE (MTE)
 ITTO BUDGET(US\$): \$508,755.00
 STARTING YEAR:

TITLE: ESTABLISHMENT OF A TRAINING AND TECHNICAL INFORMATION CENTER FOR WOOD BASED INDUSTRIES

DESCRIPTION:

This 2-year project will establish a training and technical information center to assist development of downstream wood processing industries in Myanmar, particularly in the furniture sector. The center will prepare training materials and plan and organize training courses in furniture manufacturing. It will also organize workshops seminars and overseas study tours. Training in furniture design will also be effected, on the basis of market surveys and assessments of supply and demand for products that could be manufactured in Myanmar's factories.

The project will also disseminate information on markets and new technologies through workshops and seminars and through publication of periodicals and bulletins. Before project completion a furniture fair will be organized in Yangon.

The project was prepared to follow-up on recommendations made by the ITTO-financed pre-project PPD 7/96 Rev.1 (I) "Upgrading Production Efficiency in Furniture Manufacturing".

PROJECT: PD033/97 Rev.2 (I)
 SESSION APPROVED: XXI
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: PERU
 AGENCY: INIA
 ITTO BUDGET(US\$): \$733,225.00
 STARTING YEAR:

TITLE: IDENTIFICATION AND NOMENCLATURE OF COMMERCIAL TROPICAL TIMBER SPECIES IN THE ANDEAN COMMUNITY - PHASE II

DESCRIPTION:

This three-year project will prepare a handbook with the dendrological and anatomical characteristics of 100 tropical timber species of the Andean region. The handbook will be prepared and published to assist in the identification of tropical species in the region and to harmonize their commercial nomenclature.

The handbook will cover timber species from Bolivia, Colombia, Ecuador, Peru and Venezuela. Research institutes of these five countries will participate in the handbook preparation and upon project completion are expected to have improved infrastructure, equipment and research capability.

The work will focus on species included in approved forest management plans in the region, thus contributing to facilitate implementation of forest inventory, harvesting and other forest management activities. The handbook is also expected to serve as a technical support tool for the effective marketing of forest species, because of its reliable species identification and nomenclature information. The project includes provision for the organization of 15 seminars (three in each participating country) to disseminate information and provide training on species identification and nomenclature and on the use of the handbook in general.

This project follows up on PD 150/90 Rev.1 (I), which prepared and published a handbook for the identification of forest species of the Andean sub-region.

PROJECT: PD033/98 Rev.2 (I)
 SESSION APPROVED: XXIV
 SESSION FUNDED:

TITLE: SUSTAINABLE PRODUCTION OF CONSTRUCTION MATERIALS FROM PHILIPPINES BAMBOOS

FOREST INDUSTRY PROJECTS

STATUS: PENDING FINANCE
 COUNTRY: PHILIPPINES
 AGENCY: UNIV. OF THE PHILIPPINES LOS BANOS,
 COLLEGE OF FORESTRY
 ITTO BUDGET(US\$): \$544,696.00
 STARTING YEAR:

DESCRIPTION:

This 4-year project will implement research and development activities to promote and enhance bamboo production and processing into laminated boards for construction and other uses. The project will study the basic properties (drying, gluing, preservation, and finishing) of selected Philippine bamboo species and assess their suitability in the manufacture of laminated boards. Bamboo culms of suitable species will be processed into laminated boards and then subjected to strength tests to find out if they are suitable for housing components and other uses. The financial feasibility of bamboo laminated board production will also be determined.

Another project study will determine the effects of silvicultural management practices on the quality of bamboo stands as well as on the bamboo materials produced. The study will cover three commercial bamboo species widely distributed in the Philippines (*Bambusa blumeana*; *Gigantochloa levis*, and *Dendrocalamus asper*).

Information and education material on bamboo production and on the manufacture and use of bamboo products for construction uses will be prepared and distributed to selected target groups such as builders and farmers.

PROJECT: PD041/98 Rev.2 (I)
 SESSION APPROVED: XXV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: PHILIPPINES
 AGENCY: FOREST MANAGEMENT BUREAU
 ITTO BUDGET(US\$): \$53,784.00
 STARTING YEAR:

**TITLE: NATIONAL SEMINAR WORKSHOP ON THE PROMOTION OF
 PLANTATION TIMBER UTILIZATION**

DESCRIPTION:

This 6-month project will organize and convene a seminar to promote greater utilization of plantation timber in the Philippines. The seminar will target industrial wood consumers such as sawmillers, plywood and furniture manufacturers, but will also be attended by plantation timber producers and relevant government agencies. Seminar papers will focus on the experiences of actual utilization of plantation timber and on latest processing and uses technologies.

The seminar will also provide the opportunity for the establishment of a network of plantation timber producers and consumers as well as private and government organizations involved in the production and utilization of plantation timber in the various regions of the country.

The seminar results and proceedings will include a set of recommended policies and programs to promote plantation timber in the Philippines.

PROJECT: PD046/97 Rev.3 (I)
 SESSION APPROVED: XXV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: BRAZIL
 AGENCY: AMAZON WORKERS' ASSOCIATION (CTA)
 ITTO BUDGET(US\$): \$462,090.00
 STARTING YEAR:

**TITLE: COMMUNITY FOREST PRODUCT PROCESSING IN THE PUERTO DIAS
 EXTRACTIVE RESERVE**

DESCRIPTION:

This 12-month project will assist the forest community of the Puerto Dias extractive reserve (Acre, Brazil) in the establishment of the infrastructure and development of human resources needed to add value to primary timber products. Primary products will be made available by the implementation of a harvesting and primary processing project supported by the World Bank and by the G-7 Pilot Program for Tropical Forest Protection.

Manufacturing of value-added products will focus on small-wooden objects and components for pre-fabricated houses. Forest industries training in the fields of logging, timber preservation and drying, and further processing will be provided to the members of the Rubber Tappers' Association of Puerto Dias through a series of 6 training courses. A marketing consultant and an advertising agency will be engaged to design and implement the strategy and promotional campaign to commercialize the value-added products from the extractive reserve.

A report recording the Puerto Dias extractive reserve experience in community forest management and production/marketing of high added value products will be prepared and distributed to opinion and policy makers.

PROJECT: PPD009/98 Rev.1 (I)
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: PENDING FINANCE
 COUNTRY: GUYANA
 AGENCY: GUYANA FORESTRY COMMISSION
 ITTO BUDGET(US\$): \$52,434.00
 STARTING YEAR:

TITLE: ASSESSMENT OF FOREST INDUSTRY TRAINING NEEDS

DESCRIPTION:

This 3-month pre-project will assess forestry industry training needs and existing training facilities and resources. The pre-project also provides for the formulation of a training strategy and proposal if justified.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT: PD001/96 Rev.3 (F)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXIII
 OPERATIONAL

**TITLE: SUSTAINABLE FOREST MANAGEMENT IN THE NARGANA DISTRICT,
 KUNA YALA INDIGENOUS TERRITORY, PANAMA**

DESCRIPTION:

REFORESTATION AND FOREST MANAGEMENT PROJECTS

<p>STATUS: COUNTRY: PANAMA AGENCY: KUNA WORKERS ASSOCIATION (AEK-PEMASKY) ITTO BUDGET(US\$): \$984,772.00 STARTING YEAR: 1998</p>	<p>This project proposal is an outcome of PPD 5/93 Rev.1 (F) "Preparation of an Integrated Management Plan for the District No. 1 of the Kuna Yala Indian Region, aimed at the development of Agroforestry (18,000 ha), Production Forests (22,000 ha) and Watershed Protection (60,000 ha)" and is oriented towards the conservation and sustainable use of 100,000 ha of tropical forests in District No.1 of the Kuna Yala Indian Territory. Whilst it's overall objective is to protect and improve the living standards of the Kuna indigenous communities, it contemplates accomplishing this through the participatory management of their forest lands. To this effect, the project's activities to be carried out fall under three major components, as follows: i) production forest management; ii) watershed management; and iii) agroforestry.</p>
<p>PROJECT: PD002/93 Rev.1 (F.I) SESSION APPROVED: XIV SESSION FUNDED: XVII STATUS: OPERATIONAL COUNTRY: CONGO AGENCY: FORESTRY DEPARTMENT, MINISTRY OF WATERS & FORESTS ITTO BUDGET(US\$): \$756,762.00 STARTING YEAR: 1996</p>	<p>TITLE: INTEGRATED PILOT MANAGEMENT OF THE NGUOA II FOREST NORTH - PHASE I: THE PREPARATION OF A MANAGEMENT PLAN</p> <p>DESCRIPTION:</p> <p>To enforce the 1974 Forest Code, management plans on an area of over 1,747,610 ha have been developed in the Congo, especially in the Southern forest zone. However, these forest management plans present serious deficiencies in their design as well as in their implementation, and if they are applied as developed, they will lead to an over-exploitation of forests. Management plan designs have principally focused on timber production, while little consideration is given to social and environmental aspects of the forests concerned. In addition, specific silvicultural prescriptions have not been made to ensure the sustained regeneration of forest resources. With regards to the implementation of management plans, there is an insufficient number of local staff trained in forest management activities, and therefore, they lack the means to implement forest management activities.</p> <p>The proposal will address the above mentioned issues in developing a pilot forest management plan integrating biophysical, economic, social, and environmental considerations of the forests concerned. The management plan could then serve as a model in updating or developing management plans for other forest zones in Congo. It will also provide training support, functioning as a demonstration area for local forest staff in forest management activities.</p>
<p>PROJECT: PD003/95 Rev.2 (F) SESSION APPROVED: XVIII SESSION FUNDED: XVIII STATUS: OPERATIONAL COUNTRY: GHANA AGENCY: FOREST RESEARCH INSTITUTE OF GHANA (FORIG) ITTO BUDGET(US\$): \$668,891.00 STARTING YEAR: 1995</p>	<p>TITLE: CONSERVATION AND PROVENANCE PLANTINGS AND INTEGRATED PEST MANAGEMENT TO SUSTAIN IROKO PRODUCTION IN WEST AFRICA</p> <p>DESCRIPTION:</p> <p>This proposal outlines phase II activities of ITTO project PD 75/90, and will provide the essential foundations to achieve sustainable forest management through the integration of local community development, wood products industry, and public sector research. This objective will be achieved through an African regional project that will result in:</p> <ol style="list-style-type: none"> 1) the establishment of provenance and conservation plantings of Iroko; 2) demonstration of mixed native plantations; 3) determination of factors influencing regeneration of Iroko in natural forests; 4) continuation of the development of an integrated pest management program for Phytolyma lata including the use of biological control; and 5) a comprehensive technology transfer program.
<p>PROJECT: PD004/94 Rev.2 (F) SESSION APPROVED: XVII SESSION FUNDED: XVII STATUS: OPERATIONAL COUNTRY: PAPUA NEW GUINEA AGENCY: PAPUA NEW GUINEA FORESTRY AUTHORITY ITTO BUDGET(US\$): \$289,070.00 STARTING YEAR: 1996</p>	<p>TITLE: EAST NEW BRITAIN Balsa INDUSTRY STRENGTHENING PROJECT</p> <p>DESCRIPTION:</p> <p>The project is to be conducted in the Gazelle Peninsular area of East New Britain Province. The project area is currently depressed owing to low agricultural commodity prices, which are forecast to continue in the medium term. Balsa is rapidly becoming an important form of diversification for local farmers but industry support and infrastructure are under-resourced and not coordinated. Also, balsa management is generally of a very poor standard.</p> <p>The objectives of the project are to improve the institutional and organisational effectiveness of the developing industry, and to improve smallholder incomes through balsa development, extension and training, and through genetic improvement of planting stocks. Project outputs will include farmer extension and training, support agency staff training, the development of an organisational structure for coordinating industry activities, and the development of a seed orchard.</p>
<p>PROJECT: PD004/97 Rev.3 (F) I SESSION APPROVED: XXIV SESSION FUNDED: XXIV STATUS: OPERATIONAL COUNTRY: EGYPT AGENCY: UNDERSEC FOR AFFORESTATION, MIN OF AGRI & LAND RECLAMAT ITTO BUDGET(US\$): \$246,749.00 1998</p>	<p>TITLE: DEVELOPMENT AND PROMOTION OF AFFORESTATION ACTIVITIES IN EGYPT - PHASE I</p> <p>DESCRIPTION:</p> <p>The aim of this project is the sustained production of timber through afforestation activities involving local community participation. An essential component of the project will be the irrigation of planted trees with treated waste water. Outputs of the project include the formulation of policy, afforestation guidelines and action plan.</p>

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STARTING YEAR:

PROJECT: PD008/92 Rev.2 (F)
 SESSION APPROVED: XIII
 SESSION FUNDED: XVI
 STATUS: OPERATIONAL
 COUNTRY: HONDURAS
 AGENCY: NATIONAL SCHOOL OF FORESTRY
 SCIENCE (ESNACIFOR)
 ITTO BUDGET(US\$): \$922,467.00
 STARTING YEAR: 1994

TITLE: STUDY ON THE GROWTH OF NATIVE SPECIES OF COMMERCIAL
 INTEREST IN HONDURAS

DESCRIPTION:

In 1986 Honduras had about 2.7 million ha of broadleaf forest and 2.4 million ha of coniferous forest. The deforestation rate however, is approximately 90,000 ha per year, including an estimated 70,000 ha of broadleaf forest. This has resulted in a total loss of about 1,417,926 ha of broadleaf forest since 1966. With this level of deforestation, a great number of commercially valuable species are lost. The reasons for deforestation are varied, but evidently the greatest influence has been the under-valuation of the forests by the rural communities due to the fact that all forest have been state owned. In response to this problem, this five year project aims at gathering additional information on timber species by increasing, improving and adequately protecting broad-leaved forest resources, thereby contributing to forest knowledge and valuation. More immediately, the project aims at generating and transferring information to promote the establishment of commercial plantations of non-traditional broadleaved species.

PROJECT: PD008/94 Rev.2 (F)
 SESSION APPROVED: XVI
 SESSION FUNDED: XVIII
 STATUS: OPERATIONAL
 COUNTRY: GHANA
 AGENCY: EVERGREEN CLUB OF GHANA
 ITTO BUDGET(US\$): \$77,015.00
 STARTING YEAR: 1995

TITLE: EVERGREEN CLUB OF GHANA / ITTO YOUTH IN FORESTRY PROJECT

DESCRIPTION:

The objective of the project is to strengthen the capability of the Evergreen Club of Ghana (ECOG), an environmental NGO created by school children and which now has branches throughout the country. During the project, community/school environmental awareness activities will be organized and woodlots created. ITTO's support will help ECOG purchase two cross-country vehicles, one computer, one photocopier, equipment for the awareness campaign, and to hire one expert forester for six months to help in the conduct of the Club's activities.

PROJECT: PD008/97 Rev.2 (F)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: COLOMBIA
 AGENCY: ACOFORE
 ITTO BUDGET(US\$): \$806,214.00
 STARTING YEAR: 1998

TITLE: IMPLEMENTATION AND EVALUATION OF CRITERIA AND INDICATORS
 FOR SUSTAINABLE NATURAL FOREST MANAGEMENT

DESCRIPTION:

This project proposal originates from the conclusions and recommendations arrived at from the implementation of pre-project PPD 11/93 "Evaluation of Current Forest Harvesting Licensing, Concession and Control Systems within a Framework of Sustainable Forest Resource Management". The aforementioned pre-project developed a set of criteria and indicators for the sustainable management of the natural forests of Colombia and this project's overall objective is to test these at the field level and further refine them in such a way that their application become viable throughout Colombia.

PROJECT: PD009/95 Rev.2 (F)
 SESSION APPROVED: XVIII
 SESSION FUNDED: XVIII
 STATUS: OPERATIONAL
 COUNTRY: PERU
 AGENCY: INRENA
 ITTO BUDGET(US\$): \$704,503.00
 STARTING YEAR: 1996

TITLE: REFORESTATION USING HIGH-VALUE TROPICAL SPECIES IN
 AGROFORESTRY SYSTEMS OF THE PROVINCE OF TAMBOPATA

DESCRIPTION:

Cedrela odorata, Swietenia macrophylla, Cedrelia catenaeformis, Bertholletia excelsa and other tropical species of commercial potential will be established in agroforestry systems over a period of three years with the participation of farmers settled in the province of Tambopata. Department of Madre de Dios, covering a 5 km wide area over 225 km along the Puerto Maldonado-Santa Rosa-Cuzco road.

PROJECT: PD009/97 Rev.1 (F)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: FIJI
 AGENCY: FORESTRY DEPARTMENT
 ITTO BUDGET(US\$): \$418,835.00
 STARTING YEAR:

TITLE: LANDOWNER EDUCATION AND TRAINING FOR SUSTAINABLE FOREST
 MANAGEMENT

DESCRIPTION:

The project intends to accelerate economic and social development in and throughout Fiji on a fully sustainable basis and with a more equitable distribution of the benefits.

The specific objectives are: to educate the forest owning mataqali and Native Land Trust Board Estate managers in the financial, the communal and national advantages of managing their forests to full sustainable standards and to train landowners and contractors in the skills and requirements of logging to those standards.

PROJECT: PD009/98 Rev.2 (F)
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: OPERATIONAL
 COUNTRY: GABON
 AGENCY: DIARF

TITLE: Publication, Testing and Clarification of ITTO's Criteria and Indicators for the
 Sustainable Management of Gabon's Forests

DESCRIPTION:

The project is aimed at making the concept of sustainable management operational in Gabon, by training the personnel involved in the management, utilization and conservation of forest resources in the use of ITTO's criteria and indicators, testing their applicability to the

REFORESTATION AND FOREST MANAGEMENT PROJECTS

ITTO BUDGET(US\$): \$485,256.00
STARTING YEAR: 1998

conditions in the country, and producing a national Manual of criteria based on the results of this testing. Gabon will then have information on the progress still to be made to reach ITTO's Year 2000 Objective.

PROJECT: PD010/95 Rev.2 (F)
SESSION APPROVED: XIX
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: GABON
AGENCY: DIARF
ITTO BUDGET(US\$): \$221,712.00
STARTING YEAR: 1998

TITLE: EVALUATION OF SILVICULTURAL TRIALS OF INDIGENOUS TIMBER SPECIES FOR DEVELOPING FOREST PLANTATIONS IN GABON

DESCRIPTION:

The project aims at compiling information on indigenous timber species of recognized use value already tried, assessing their silvicultural performance and proposing new lines of reforestation activities compatible with ecological and economical opportunities conducive to sustained production of industrial timber from plantations. Project's outputs include:

- Synthesis report on analysis of literature on past forest plantation trials;
- Field inventory and assessment of behavior of indigenous timber species in forest plantations;
- Preparation of a master plan for development of forest plantations throughout the country; and
- Final conclusion of the study.

PROJECT: PD010/97 Rev.1 (F)
SESSION APPROVED: XXII
SESSION FUNDED: XXII
STATUS: OPERATIONAL
COUNTRY: GUYANA
AGENCY: IWOKRAMA INTL. CNTR. FOR RAIN FOREST CONSERV. AND DEV.
ITTO BUDGET(US\$): \$780,626.00
STARTING YEAR:

TITLE: A SUSTAINABLE MANAGEMENT MODEL IN THE IWOKRAMA RAIN FOREST

DESCRIPTION:

The parliament of Guyana has recently passed legislation to create the Iwokrama International Centre for Rain Forest Conservation and Development as an autonomous institution and has set aside 360,000 ha of pristine forest to be managed by Iwokrama. The Iwokrama Act requires that half of this area be set aside as a wilderness preserve. The Objective for the Project proposal is to design, plan and initiate the commercial management of the other half of the Iwokrama Forest for multiple products and services, and integrate research, training and demonstrations into these operations, in order to improve the practices in Guyana and elsewhere. The project will help Iwokrama produce a state-of-the-art forest management plan for multiple products and services, and feasibility studies for management and harvest based on this plan. It will assist in finding an appropriate business partner and negotiating contracts that will assure the adherence of principles of sustainable forest management. Demonstration, research and training in improved practices will be integrated into these model commercial operations.

PROJECT: PD011/93 Rev.1 (F)
SESSION APPROVED: XIV
SESSION FUNDED: XIV
STATUS: OPERATIONAL
COUNTRY: COLOMBIA
AGENCY: MINISTRY OF THE ENVIRONMENT
ITTO BUDGET(US\$): \$338,643.00
STARTING YEAR: 1995

TITLE: A STRATEGY FOR THE SUSTAINABLE MANAGEMENT AND HARVESTING OF FOREST RESOURCES: LEADING TO THE CONSOLIDATION OF THE INDIGENOUS TERRITORIES IN THE COLOMBIAN AMAZON

DESCRIPTION:

The proposed project is located in the Caluinari National Park, which is inhabited by indigenous people. Recent changes in the Colombian constitution have legally empowered the indigenous groups to manage and develop their territories to maintain their traditional social, cultural and economic integrity. The newly attained rights give indigenous groups broad powers of the use, management, and conservation of natural resources in vast areas covered by tropical rainforests. However, leaders and their people do not understand the implication of these rights nor possess the knowledge and skills to manage areas under their purview.

Proposed activities are grouped into two categories: 1) management and harvesting forest resources and 2) institutional strengthening and the development of an information and monitoring center. Forest management activities, to be based on ITTO Guidelines for Sustainable Forest Management, shall include:

- Photo interpretation and mapping;
- Species identification and classification as to potential use; and
- Workshops and training with the participation of indigenous leaders.

PROJECT: PD012/93 Rev.3 (F)
SESSION APPROVED: XV
SESSION FUNDED: XX
STATUS: OPERATIONAL
COUNTRY: INDONESIA
AGENCY: PIIPA MINISTRY OF FORESTRY
ITTO BUDGET(US\$): \$830,621.00
STARTING YEAR: 1997

TITLE: INTEGRATED FOREST FIRE MANAGEMENT IN INDONESIA - PHASE I: NATIONAL GUIDELINES ON THE PROTECTION OF TROPICAL FORESTS AGAINST FIRE

DESCRIPTION:

This project aims at assisting the government of Indonesia in developing an integrated forest fire management strategy with an emphasis on protecting tropical forests against fires. The project will develop a national guidelines of protection of tropical forests against fire and enhance the integrated coordination system among the related governmental agencies. Trainings for local personnel will also be organized.

PROJECT: PD012/96 Rev.2 (F)
SESSION APPROVED: XXI

TITLE: DEVELOPMENT OF A SUSTAINABLE MANAGEMENT PLAN FOR THE SOUANKE-SEMBE-KELLE AREA, CONGO - PHASE II

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SESSION FUNDED: XXI
STATUS: OPERATIONAL
COUNTRY: CONGO
AGENCY: DIRECTION GENERALE DES EAUX ET
FORETS
ITTO BUDGET(US\$): \$446,180.00
STARTING YEAR: 1997

DESCRIPTION:

The aim of this proposal is to ensure the rational planning of sustainable forest resource utilization, whilst taking into account, both their existing potential and the constraints of the economic development of local populations and the Congolese nation at large, as well as the requirements for the conservation and protection of biodiversity and the environment.

The project's objective is to carry out the final stratification of the Souanke-Sembe-Kelle area. A provisional stratification was completed under PPD 1/93 (F). Under a later phase, the project plans to develop a pilot management plan for a block of approximately 200,000 ha situated to the north of the project area, which is bound by the Azembo, Sembe, Batekok, and Ngala localities.

PROJECT: PD012/97 Rev.1 (F)
SESSION APPROVED: XXII
SESSION FUNDED: XXII
STATUS: OPERATIONAL
COUNTRY: INDONESIA
AGENCY: CENTER FOR INTERNATIONAL
FORESTRY RESEARCH (CIFOR)
ITTO BUDGET(US\$): \$965,650.00
STARTING YEAR: 1997

TITLE: FOREST, SCIENCE AND SUSTAINABILITY: THE BULUNGAN MODEL FOREST

DESCRIPTION:

The objective of the project is to carry out an assessment of: the effect of Reduced-Impact Logging on biodiversity, conservation, ecology and socio-economics; and rural development trends and future policy options including the effects of macro-level development activities on people dependent on the forest. The activities will focus on formulation of reduced impact logging guidelines and pre-harvesting plan according to the bio-physical features of the area including topography, stand volume and tree distribution.

The research and development activities will be used to improved forest management systems and achieve sustainability. The project is to be implemented in Bulungan, East Kalimantan for a 3-year period which is proposed as a first-phase. The CIFOR and Government of Indonesia will maintain the project sites for a period of 10-20 years as research forest for demonstration purpose.

PROJECT: PD013/96 Rev.1 (F)
SESSION APPROVED: XX
SESSION FUNDED: XX
STATUS: OPERATIONAL
COUNTRY: BRAZIL
AGENCY: AMAZON WORKERS CENTER (CTA)
ITTO BUDGET(US\$): \$824,493.00
STARTING YEAR: 1997

TITLE: MULTIPLE-USE MANAGEMENT IN THE MACAUA NATIONAL FOREST BASED ON RUBBER ESTATES - PHASE I: DEVELOPMENT OF MASTER PLAN TO SUPPORT COMMUNITY ORGANIZATION

DESCRIPTION:

This project seeks to carry out the necessary surveys to develop a multiple-use forest resource management model for the Macaua National Forest with the participation of the local communities as to ensure an increase in their family incomes and to avoid their further migration to urban centers, while guaranteeing the sustainable management of natural resources and the protection of the environment.

PROJECT: PD013/97 Rev.1 (F)
SESSION APPROVED: XXII
SESSION FUNDED: XXII
STATUS: OPERATIONAL
COUNTRY: JAPAN
AGENCY: JOFCA
ITTO BUDGET(US\$): \$596,075.00
STARTING YEAR: 1997

TITLE: DISSEMINATION OF NEW REMOTE SENSING METHODOLOGY THROUGH A SEMI-EXPERT SYSTEM

DESCRIPTION:

A new Remote Sensing (RS) methodology for assessment of forest status utilizing a computerized Forest Canopy Density (FCD) mapping model was developed by JOFCA under the ITTO project PD 32/93 Rev.2 (F) entitled 'Rehabilitation of Logged-over Forests in Asia/Pacific Region. Sub-project III'. The new RS methodology is widely applicable in evergreen and deciduous forest types and this will help assess forest conditions rapidly, at relatively low cost and at a high degree of accuracy.

Dissemination of the new RS method and transfer of the technology to a wider area, will contribute to sustainable forest management. The project intends to: develop a semi-expert system which will facilitate utilization of the FCD mapping model by planners, foresters and decision makers, and to train key persons in use of the semi-expert system and the operating principles of the FCD mapping model.

PROJECT: PD014/92 Rev.2 (F) III
SESSION APPROVED: XII
SESSION FUNDED: XXIV
STATUS: OPERATIONAL
COUNTRY: CHINA
AGENCY: HAINAN PROVINCIAL FORESTRY
BUREAU OF CHINA
ITTO BUDGET(US\$): \$930,510.00
STARTING YEAR: 1998

TITLE: A DEMONSTRATION PROGRAMME OF SUSTAINABLE UTILIZATION OF TROPICAL FORESTS BY MEANS OF DIFFERENTIATED MANAGEMENT IN HAINAN ISLAND, CHINA - PHASE III

DESCRIPTION:

The proposal involves a 5 year project which aims to establish a demonstration model of integrated and sustainable utilization and management of the tropical resources of Hainan. The project has several components including:

- * The establishment of a demonstration model area for plantation lignoculture.
- * The establishment of a demonstration area for multi-purpose natural forest management.
- * The establishment of a demonstration model for protected conservation forests.

Training, education and extensions are also becoming important achievements of the project.

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Phases I and II have been successfully completed.

PROJECT: PD014/95 Rev.2 (F)
 SESSION APPROVED: XIX
 SESSION FUNDED: XIX
 STATUS: OPERATIONAL
 COUNTRY: MALAYSIA
 AGENCY: FOREST DEPARTMENT SARAWAK
 ITTO BUDGET(US\$): \$1,998,235.00
 STARTING YEAR: 1996

TITLE: MODEL FOREST MANAGEMENT AREA - PHASE II

DESCRIPTION:

On the basis of a 10-year development plan prepared during phase I for an area of about 160,000 ha of mixed hill forests located in the center of Sarawak, phase II of the project intends to provide the following major outputs as part of the main objective of establishing systems of sustainable forest management which are environmentally acceptable. The main activities will be:

- Provide and maintain the necessary infrastructure facilities and monitoring networks in the model area established under the Phase I.
- Provide training to forest staff and workers in all aspects of planning, execution and control of environmentally acceptable forest operations.
- Provide and research and development data in experimental forest management exercises of controlled harvesting, helicopter logging and forest rehabilitation, to improve future management and operations.
- Provide demonstrations of viable management options, improved harvesting methods and technologies with less impact on environmental values.

The project will developed further the MFMA as demonstration area and will produce technical guidelines for better practice in sustainable forest management.

PROJECT: PD014/97 Rev.1 (F)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXII
 STATUS: OPERATIONAL
 COUNTRY: JAPAN
 AGENCY: INTERNATIONAL SOCIETY FOR
 MANGROVE ECOSYSTEMS (ISME)
 ITTO BUDGET(US\$): \$979,872.00
 STARTING YEAR: 1997

TITLE: GLOBAL MANGROVE DATABASE AND INFORMATION SYSTEM
 (GLOMIS) - PHASE I

DESCRIPTION:

The proposal aims to establish a database of all published and unpublished available data on the distribution and productivity of mangroves species and to implement a GIS-based Global Mangrove Database and Information System so called GLOMIS. Thus, it will provide planners, policy and decision makers and coastal zone managers with tools to evaluate management options for sustainable utilization of mangroves for timber, fisheries and other users.

The activities proposed include standardization of database format, establishment of center and sub-centers in Brazil, Ghana, Fiji, India and Japan and its network; collection of data on mangroves and operationalization of GIS and publication of GLOMIS Newsletter. The expected system will be governed and supervised by a board consist of scientists and experts on mangroves from various institutions.

PROJECT: PD015/95 Rev.3 (F)
 SESSION APPROVED: XXI
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: MALAYSIA
 AGENCY: SARAWAK FOREST DEPARTMENT
 ITTO BUDGET(US\$): \$1,261,780.00
 STARTING YEAR: 1997

TITLE: DEVELOPMENT OF LANJAK-ENTIMAU WILDLIFE SANCTUARY AS A
 TOTALLY PROTECTED AREA - PHASE II

DESCRIPTION:

On the basis of a management plan prepared during Phase I, for an area of approximately 168,000 ha of unlogged lowland and hill forests located in the western interior of Sarawak, and contiguous with the Gunung Bentuang and Karimun Nature Reserve in West Kalimantan, Indonesia, the project intends to provide the following outputs as part of the main objective of establishing a Totally Protected Area, for the purpose of conservation of biological diversity and research into ecological processes relevant to sustainable forest management:

1. Provide and maintain the necessary infrastructure facilities, monitoring and research networks in the Sanctuary set aside under the Phase I;
2. Provide and update the necessary guidelines for long-term management;
3. Monitor and conserve biological diversity in the Sanctuary through protection, research, education and community consultation programs;
4. Provide technical and scientific training for local communities, Forest Department staff, students in forest ecology, animal and plant taxonomy, ethnobiology and other biodiversity-related fields; and
5. Provide and management model applicable to Gunung Bentuang and Karimun Nature Reserve at the Indonesian side.

PROJECT: PD016/95 Rev.2 (F)
 SESSION APPROVED: XVIII
 SESSION FUNDED: XVIII
 STATUS: OPERATIONAL
 COUNTRY: INDONESIA
 AGENCY: SEAMEO-BIOTROP
 ITTO BUDGET(US\$): \$456,989.00
 STARTING YEAR: 1995

TITLE: FOREST HEALTH MONITORING TO MONITOR THE SUSTAINABILITY OF
 INDONESIAN TROPICAL RAIN FORESTS

DESCRIPTION:

This project focuses on the evaluation of forest ecosystems, and more specifically, indicators related to changes, trends, casual agents and mechanisms of forest health.

Activities include the establishment of forest health monitoring plots within the existing Indonesian forest inventory plots to monitor parameters relevant to forest sustainability and biodiversity.

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Invited scientists will evaluate indicators pertaining to forest mensuration (growth, regeneration, mortality, stand structure), crowns (structure, defoliation, leaf area index), and damage (insects, disease, abiotic, and logging) aspects. A methodology will be developed to link remote sensing techniques to ground based monitoring plots and an ecological classification system. It would lead to a study of the relationship between the condition of a forest ecosystem, a trend of biodiversity indicators, and human activities.

Various reports on the establishment of monitoring plots on assesment through diverse remote sensing techniques and an early warning of changes in canopy will be produced by the project. In addition, training on the establishment of forest health monitoring plots will also be provided.

PROJECT: PD016/96 Rev.4 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIV
STATUS: OPERATIONAL
COUNTRY: INDONESIA
AGENCY: FACULTY OF FORESTRY, GADJAH MADA
UNIVERSITY YOGYAKARTA
ITTO BUDGET(US\$): \$600,000.00
STARTING YEAR: 1998

TITLE: EX SITU CONSERVATION OF SHIOREA LEPROSULA AND
LOPHIOPETALUM MULTINERVIUM AND THEIR USE IN FUTURE
BREEDING AND BIOTECHNOLOGY

DESCRIPTION:

The Project will focus on determining appropriate methods of conserving two selected indigenous tropical rain forest tree species to provide a reservoir of genetic materials for future breeding and biotechnology efforts in improving those species.

The specific objectives of the project are: to create effective programs of education and technology transfer that may be used to train appropriate personnel for ex situ conservation of tropical forest trees, and to establish conservation methodologies of the two selected species and to develop these as model for general ex situ conservation techniques. The output of this project could also be used to influence the policy on ex situ conservation and to develop action plan based on a sound scientific basis.

PROJECT: PD017/98 Rev.3 (F) I
SESSION APPROVED: XXIV
SESSION FUNDED: XXIV
STATUS: OPERATIONAL
COUNTRY: GABON
AGENCY: DIARF
ITTO BUDGET(US\$): \$635,651.00
STARTING YEAR: 1998

TITLE: FOREST INVENTORY AND PRODUCTION OF MANAGEMENT PLANS FOR
AREAS OF RESERVED PRODUCTION FORESTS IN THE FIRST ZONE OF
GABON (PHASE I)

DESCRIPTION:

The project aims to carry out forest inventories covering 450 000 ha. of production forests, divided into 4 areas, and to produce forest management plans. This project follows the ITTO-financed project entitled 'Stratification, mapping and multi-resource inventory for the management of Gabon's first forest zone' (PD 8/95 Rev.1 (F)). That project made it possible to draw up a proposal for a management plan for these areas taking into account the prerogatives of the various land users. The areas that must be inventoried and managed as a priority have been identified. These are the areas which are the object of this proposal.

PROJECT: PD018/92 Rev.1 (F)
SESSION APPROVED: XII
SESSION FUNDED: XVII
STATUS: OPERATIONAL
COUNTRY: COTE D'IVOIRE
AGENCY: SODEFOR
ITTO BUDGET(US\$): \$300,000.00
STARTING YEAR: 1995

TITLE: RESEARCH-DEVELOPMENT ASSOCIATED WITH MANAGEMENT
OPERATIONS IN THE CLOSED FOREST OF COTE D'IVOIRE:
DETERMINATION OF A FOREST TYPOLOGY RELATED TO
SILVICULTURAL SYSTEMS

DESCRIPTION:

At the beginning of the century the closed forests in Cote d'Ivoire accounted for about 15 million ha. This figure has been reduced to somewhere in the range of 2.5 to 3 million ha due to uncontrolled deforestation by farmers for agricultural purposes and selective forest exploitation, which have left the forest impoverished. The remaining forest range from the pristine closed forests to forests in different stages of degradation and agricultural fallow-lands. Its management calls for the application of appropriate and specific silvicultural treatments for each stand.

The main objectives of this R&D project are:

- to develop a comprehensive and practical methodology to characterize forests stands requiring specific silvicultural treatment;
- to define for each of these specific situations, the corresponding silvicultural operations to be carried out; and
- to train forest management staff in field operations.

To achieve these objectives, an area of above 100,000 ha, where different forest degradation stages are encountered will be chosen as a demonstration site. Activities such as aerial photography, cartography, forest inventory, other field data collecting and data processing leading to the definition of silvicultural units will be carried out by this initial project. The experimentation of silvicultural techniques in each of the define silvicultural units will be carried out in a subsequent project. It is also hoped that the project's results will be replicated throughout the country and the neighbouring countries in the future.

PROJECT: PD018/94 Rev.1 (F) II
SESSION APPROVED: XVI
SESSION FUNDED: XXII
STATUS: OPERATIONAL

TITLE: PARTICIPATORY FOREST DEVELOPMENT IN THE ALTO MAYO REGION
FOR THE SUSTAINABLE MANAGEMENT OF MOIST TROPICAL FORESTS -
PHASE II

DESCRIPTION:

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COUNTRY: PERU
 AGENCY: INRENA
 ITTO BUDGET(US\$): \$888.310.00
 STARTING YEAR: 1997

Through the implementation of reforestation and forest management activities, this project will help increase the living standards of rural populations in the provinces of Rioja and Moyobamba and improve environmental conditions in the region. To achieve these aims, specific project objectives have been set, including a land-use allocation plan in the aforementioned provinces; the establishment of a regional forest seed bank; the establishment of a demonstration model for integrated management and harvesting of timber and non-timber resources in the natural forests of Alto Mayo; the implementation of a training and extension programs; and the promotion of applied forestry research.

PROJECT: PD021/97 Rev.2 (F)
 SESSION APPROVED: XXIII
 SESSION FUNDED: XXIII
 STATUS: OPERATIONAL
 COUNTRY: PHILIPPINES
 AGENCY: DENR
 ITTO BUDGET(US\$): \$913.285.00
 STARTING YEAR: 1998

TITLE: DEVELOPING TROPICAL FOREST RESOURCES THROUGH COMMUNITY-BASED FOREST MANAGEMENT, NUEVA VIZCAYA, PHILIPPINES

DESCRIPTION:

The project will establish forest plantation and manage regenerating and mature natural forest using research - validated methods; and to manage forest resources through the community-based forest management strategy. In this purpose, the main activities will include bi-annual remeasurement and analysis of growth parameters of experimental plantations established under project PD 130/91 (F), expand the existing nurseries, preparation of a management plan for regenerating forests and mature dipterocarp forests and integrated these into a community-based forest management framework recognized by the Government of the Philippines.

At the end of the project, it would have a 7-year comprehensive growth performance data from the experimental plantation and would have gained recognition as a center for transfer of appropriate forestry technology and as a demonstration area for community-based forest management.

PROJECT: PD022/93 Rev.4 (F)
 SESSION APPROVED: XVII
 SESSION FUNDED: XVIII
 STATUS: OPERATIONAL
 COUNTRY: CAMEROON
 AGENCY: ONADEF
 ITTO BUDGET(US\$): \$725.102.00
 STARTING YEAR: 1995

TITLE: FOREST MANAGEMENT, COMMUNITY PARTICIPATION AND SUSTAINABLE UTILIZATION IN SI-KOP FOREST AREA, COASTAL PROVINCE, CAMEROON

DESCRIPTION:

The project aims to manage an area of tropical moist forest in Cameroon for the sustainable production of both timber and non-timber products. This project is mainly concerned with planning operations related to sustainable management and the development of the project area, while assisting Cameroon's overall development objectives. The main objectives include the establishment of an extractive reserve to promote the sustainable use of non-timber forest products by local people while helping conservation of a rich forest and the creation of a village cooperative to help organize local farmers, and provide them with an important basis for training activities.

PROJECT: PD022/98 Rev.1 (F)
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXIV
 STATUS: OPERATIONAL
 COUNTRY: COTE D'IVOIRE
 AGENCY: SODEFOR
 ITTO BUDGET(US\$): \$387.238.00
 STARTING YEAR: 1998

TITLE: DEVELOPMENT OF TEAK CLONING AND ESTABLISHMENT OF INDUSTRIAL PLANTATIONS

DESCRIPTION:

The aim of this project is to provide SODEFOR with the capacity to produce teak plants based on a cloning selection programme with a view to the intensification of teak reforestation. This project is the first phase of a project, which comprises two phases of three years each. In order to complete this project, two main operations will be conducted:

- The development of teak industrial cloning and the introduction of a first phase of cloning tests;
- The configuration of the programme and the introduction of a second phase of cloning tests.

These two activities should eventually enable the supply of good quality teak on the local and international market.

PROJECT: PD024/93 Rev.2 (F)
 SESSION APPROVED: XV
 SESSION FUNDED: XV
 STATUS: OPERATIONAL
 COUNTRY: MALAYSIA
 AGENCY: FORESTRY DEPARTMENT, MALAYSIA
 ITTO BUDGET(US\$): \$567.558.00
 STARTING YEAR: 1994

TITLE: FOREST MANAGEMENT OF NATURAL FORESTS IN MALAYSIA - PHASE II

DESCRIPTION:

This project is the follow-up phase of Project PD 10/87 (F). Four study areas were established in Selangor, Pahang, Terengganu and Perak of Peninsular Malaysia under the Phase I of the project. There will be a continuation of data analysis including growth and yield modelling and formulation of appropriate forest management systems in the new project. A number of scholarships are proposed for professional foresters of the Forestry Department to analyze the data collected. An international workshop is scheduled for the end of Phase II to share the findings, experiences and recommendations arising from this project and similar research elsewhere.

The specific objective of the project is to establish production levels in terms of volume and species mixture attainable under a variety of harvesting and silvicultural regimes and subsequently to amend the present forest management guidelines. The project will also develop research linkages with local and international research institutions and establish the

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- research plots as demonstration areas for forest management. Some of the activities proposed include: training of counterparts in data management, updating of the instruction manuals, conducting field level data collection, providing fellowship and post graduate studies and organizing an international workshop. Also, the project hopes to establish a network between the Forestry Department, the Forest Research Institute of Malaysia, the Agricultural University of Malaysia and the ASEAN Institute of Forest Management.
-
- PROJECT:** PD026/92 Rev.1 (F.I)
SESSION APPROVED: XIII
SESSION FUNDED: XIV
STATUS: OPERATIONAL
COUNTRY: CAMEROON
AGENCY: ONADEF
ITTO BUDGET(US\$): \$1,957,100.00
STARTING YEAR: 1994
- TITLE:** DEVELOPMENT OF METHODS AND STRATEGIES FOR SUSTAINED MANAGEMENT OF MOIST TROPICAL FORESTS IN CAMEROON
- DESCRIPTION:**
 Natural forests represent an important natural resource for Cameroonians, provided that they are adequately managed and protected against ill-considered land-use. Considerable efforts to improve natural forest management are being undertaken by the government of Cameroon, and the proposed project is part of the Tropenbos-Cameroon Programme which aims to develop methods and strategies for natural forest management directed at sustainable production of timber and other products and services. The overall objective is to contribute to the development of ecologically sound, socially acceptable and economically viable management systems for the evergreen tropical moist forests in Cameroon.
-
- PROJECT:** PD026/93 Rev.1 (F)
SESSION APPROVED: XV
SESSION FUNDED: XVI
STATUS: OPERATIONAL
COUNTRY: INDONESIA
AGENCY: PIIPA, MINISTRY OF FORESTRY
ITTO BUDGET(US\$): \$1,250,807.00
STARTING YEAR: 1995
- TITLE:** DEVELOPMENT OF BENTUANG KARIMUN NATURE RESERVE AS A NATIONAL PARK - PHASE I
- DESCRIPTION:**
 Bentuang Karimun is the largest nature reserve in West Kalimantan and is located adjacent to the Malaysian Lanjak Entimau Wildlife sanctuary, currently receiving assistance under ITTO Project PD 106/90 Rev.1 (F). These areas are reported to be the final retreat for the orangutan and the white fronted monkey.
- Bentuang Karimun covers a total area of 600,000 ha consisting of lowland dipterocarp forest, wet hill forest and mountain forest of high biodiversity value. The area is surrounded by logging concessions and due to this condition, it is important that this area be established as a totally protected area. The project will develop management plan for the national park, taking into consideration the socio-economic development in West Kalimantan.
-
- PROJECT:** PD026/96 Rev.4 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: MALAYSIA
AGENCY: SARAWAK FOREST DEPARTMENT
ITTO BUDGET(US\$): \$632,149.00
STARTING YEAR: 1998
- TITLE:** STUDIES ON THE MANAGEMENT STANDARDS OF HILL DIPTEROCARP FORESTS IN SARAWAK FROM A WATERSHED MANAGEMENT POINT OF VIEW - PHASE II
- DESCRIPTION:**
 This project is a follow up to Project PD 104/90 Rev.2 (F) which started in September 1993. The project's Phase I was to examine the negative impacts of conventional logging operations and their effects on the forest environment and watershed, by comparing unlogged forest areas with those logged-over. Under the conventional system of forest road construction most of road cut materials are disposed of into valleys i.e. down the mountain slopes. The study found that this unconsolidated material which was easily eroded by surface runoff during high intensity rainfall was the main cause of turbidity and sediment loads. The Draft Technical Guidelines for Forest Road Construction for Sound Watershed Management was developed under Phase I on the basis of the findings of the study.
- The Phase II project is intended to: (1) to apply the Draft Technical Guideline into practice at the project site; (2) to assess and evaluate the impacts of improved system of forest operation on the watershed by comparing the impacts with the conventional system; and (3) to disseminate project findings through a training seminar on the improved operation system for timber companies in Sarawak as well as personnel of the Sarawak Forest Department.
-
- PROJECT:** PD027/94 Rev.2 (F)
SESSION APPROVED: XVI
SESSION FUNDED: XVI
STATUS: OPERATIONAL
COUNTRY: GHANA
AGENCY: FORESTRY DEPARTMENT
ITTO BUDGET(US\$): \$694,823.00
STARTING YEAR: 1995
- TITLE:** WOMEN AND TROPICAL FOREST DEVELOPMENT PROGRAM
- DESCRIPTION:**
 The objectives of this project are the establishment of a nursery and extension programme in 3 regions of Ghana, to be run by the 31st December Women's Movement (an NGO) to support community-based and private sector reforestation; the establishment of demonstration timber and non-timber forest product plantations; research on the cultivation of non-timber forest products; and to promote West Africa sub-regional consultation on the potential for women to support tropical reforestation.
-
- PROJECT:** PD027/96 Rev.1 (F)
SESSION APPROVED: XX
SESSION FUNDED: XXII
STATUS: OPERATIONAL
COUNTRY: GABON
AGENCY: DIARF
ITTO BUDGET(US\$): \$301,100.00
STARTING YEAR: 1997
- TITLE:** FORESTRY AND GENETIC IMPROVEMENT OF THE OKOUME (AUCOUMEA KLAINEANA, PIERRE) - PHASE II
- DESCRIPTION:**
 The project will develop techniques for the renewal of the forests of Okoume and provide improved plant material adapted to the country's principal areas of timber production.

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PROJECT: PD028/94 Rev.2 (F)
 SESSION APPROVED: XVI
 SESSION FUNDED: XVIII
 STATUS: OPERATIONAL
 COUNTRY: PERU
 AGENCY: ASOCIACION BOSQUES Y DESARROLLO
 ITTO BUDGET(US\$): \$287,804.00
 STARTING YEAR: 1996

TITLE: CONTINUATION OF THE PUBLICATION OF THE JOURNAL "BOSQUES Y DESARROLLO" AND THE ORGANIZATION OF A COMMUNICATION AND INFORMATION SERVICE

DESCRIPTION:

This project seeks to facilitate communication, information and exchange of experiences, concepts and technologies in the field of forestry, amongst various users in the region. Also, it hopes to disseminate concepts, experiences and appropriate technologies, in order to promote forest activities in consonance with the principles of sustained forest resource management. Lastly, by continuing the publication of the regional journal "Bosques y Desarrollo", the project hopes to consolidate this regional information and communication medium.

PROJECT: PD028/96 Rev.1 (F)
 SESSION APPROVED: XX
 SESSION FUNDED: XX
 STATUS: OPERATIONAL
 COUNTRY: GABON
 AGENCY: DIARF
 ITTO BUDGET(US\$): \$946,983.00
 STARTING YEAR: 1996

TITLE: INVENTORY AND PREPARATIONS FOR THE MANAGEMENT OF THE MINKEBE-FOREST AREA OF GABON

DESCRIPTION:

The project seeks to prepare forest and wildlife reserve management plans covering approximately 1,300,000 ha of the forest area of Minkebe; and carrying out an inventory of 800,000 ha; gazettement of 500,000 ha as a natural reserve; and pilot management of 90,000 ha, 30,000 ha of which are on village lands.

PROJECT: PD030/95 Rev.1 (F) II.II
 SESSION APPROVED: XIX
 SESSION FUNDED: XXIV
 STATUS: OPERATIONAL
 COUNTRY: BRAZIL
 AGENCY: FUNPAR
 ITTO BUDGET(US\$): \$806,020.00
 STARTING YEAR: 1998

TITLE: DISSEMINATION AND TRAINING ON ITTO GUIDELINES AND CRITERIA - PHASE II, STAGE II

DESCRIPTION:

The project aims to:

- i) Disseminate the ITTO Guidelines for Sustainable Management of Natural Forests, Guidelines for the Conservation of Biological Diversity in Tropical Production Forests and Criteria for the Measurement of Sustainable Tropical Forest Management and provide training on their application.
- ii) Survey and assess appropriateness of forest management plans and practices, foresters skills and logging operations in six states in the Brazilian Amazon, and collect, access information on forest management practices in these states with the view to future development of the ITTO Guidelines at regional and national levels.

"Stage I" successfully completed.

PROJECT: PD030/96 Rev.3 (F)
 SESSION APPROVED: XXII
 SESSION FUNDED: XXIII
 STATUS: OPERATIONAL
 COUNTRY: TOGO
 AGENCY: ODEF
 ITTO BUDGET(US\$): \$684,549.00
 STARTING YEAR: 1998

TITLE: PROJECT FOR A 2,500 HA TIMBER PRODUCTION PLANTATION IN THE RESERVED FOREST OF HAHO-BALOE (PLATEAUX REGION - TOGO) - Phase I

DESCRIPTION:

The project aims at bringing the Haho-Baloe reserved forest (4,000 ha) under sustainable and integrated management for the purpose of optimal production of timber with the motivated cooperation of the population living in the project area. The project will be implemented in three phases.

The first phase, which concerns the present proposal, is intended to:

- establish 500 ha of new plantation for the production of industrial timber;
- regenerate 100 ha of old teak forests;
- prepare documents on participatory forest management for 940 ha of natural forest and the security of land tenure for the peoples living in the 660 ha enclaves allocated to agriculture.

The second phase will provide for, in particular, 600 ha of new plantations and the regeneration of 150 ha of old teak forests, and the third phase will provide for 700 ha of new plantations and the regeneration of 100 ha of old teak plantations.

PROJECT: PD031/94 Rev.1 (F)
 SESSION APPROVED: XVI
 SESSION FUNDED: XVI
 STATUS: OPERATIONAL
 COUNTRY: JAPAN
 AGENCY: ASEAN INSTITUTE OF FOREST MANAGEMENT (AIFM)
 ITTO BUDGET(US\$): \$992,017.00
 STARTING YEAR: 1996

TITLE: PLANNING PRACTICAL AND COST EFFECTIVE STRATEGIES FOR GENETIC RESOURCE CONSERVATION OF COMMERCIAL TREE SPECIES IN TROPICAL ASIA AND THE PACIFIC

DESCRIPTION:

The specific objective of this project is to encourage and support, practical and cost-effective plans of participating countries to conserve genetic resources of selected, commercially important tree species, principally in production forests. Information about current activities and suggestions for future actions in the field of forest tree genetic resource conservation is gathered and discussed at a number of expert workshops in the participating countries. The project will develop a technical guidelines for genetic conservation in Asia Pacific region through periodical workshop involving resources persons from selected countries in South-East

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Asia.

PROJECT: PD031/95 Rev.3 (F)
SESSION APPROVED: XXI
SESSION FUNDED: XXI
STATUS: OPERATIONAL
COUNTRY: MALAYSIA
AGENCY: FOREST RESEARCH INSTITUTE OF
MALAYSIA (FRIM)
ITTO BUDGET(US\$): \$547,893.15
STARTING YEAR: 1997

TITLE: A MODEL PROJECT FOR COST ANALYSIS TO ACHIEVE SUSTAINABLE
FOREST MANAGEMENT

DESCRIPTION:

This project aims to establish a model project for estimating the resources needed and the cost incurred in implementing sustainable forest management practices based on the ITTO's guidelines and criteria and indicators. The cost includes (a) conservation measures taken to minimize damage to residual stands and ecosystems at the forest management unit, (b) forest treatment and maintenance of logged over areas, and (c) sustainable management of non-timber forest products and environmental services. The expected reports will provide realistic planning in implementing sustainable forest management on an operational scale basis.

PROJECT: PD032/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED: XXIV
STATUS: OPERATIONAL
COUNTRY: GHANA
AGENCY: FORESTRY RESEARCH INSTITUTE OF
GHANA (FORIG)
ITTO BUDGET(US\$): \$366,513.00
STARTING YEAR: 1998

TITLE: FOREST FIRE MANAGEMENT IN GHANA

DESCRIPTION:

Fire is at present the most important cause of deforestation and forest degradation in Ghana. The annual loss of revenue from merchantable timber to fire is currently estimated at \$24 million. Wildfires in the country have been estimated to cause an annual loss of 3% of GDP during the past 15 years through destruction of forests, agricultural lands and property. The Ministry of Lands and Forestry of the Government of Ghana has therefore initiated a broad programme aimed at the prevention and control of forest fires. This project is aimed at collecting baseline information for use by policy makers and forest managers. A major project output is the development of effective collaborative forest fire management approaches.

PROJECT: PD033/93 Rev.1 (F) I
SESSION APPROVED: XVI
SESSION FUNDED: XVI
STATUS: OPERATIONAL
COUNTRY: BOLIVIA
AGENCY: MINISTERIO DE AGRICULTURA,
GANADERIA Y DESARROLLO RURAL
ITTO BUDGET(US\$): \$1,733,945.00
STARTING YEAR: 1994

TITLE: CONSERVATION, MANAGEMENT, HARVESTING, AND INTEGRATED
SUSTAINED USE OF FORESTS IN THE CHIMANES REGION, BENI,
BOLIVIA - PHASE I

DESCRIPTION:

This project, a continuation of PD 88/90 (F), will be implemented in the Permanent Production Forest areas and the Chimán Indigenous Territory in the Chimanes forest of Beni, Bolivia, with the aim of achieving sustainable forest management through the implementation of a series of pilot forest management plans in conjunction with timber companies operating within the Permanent Production Forest and indigenous communities living in the Chimán Indigenous Territory.

PROJECT: PD035/93 Rev.4 (F) II
SESSION APPROVED: XVI
SESSION FUNDED: XX
STATUS: OPERATIONAL
COUNTRY: PANAMA
AGENCY: ANCON
ITTO BUDGET(US\$): \$664,650.00
STARTING YEAR: 1996

TITLE: FORESTRY MANAGEMENT, COMMUNITY DEVELOPMENT, AND
SUSTAINED USE OF FORESTS ON THE PUNTA PATIÑO NATURE
RESERVE, DARIEN REGION, REPUBLIC OF PANAMA - PHASE II

DESCRIPTION:

The project aims to establish forestry management and community agroforestry extension programs within the communities of Punta Patiño; promote sustainable reforestation and harvesting program; guarantee the improved living standards of said communities; and develop a sound scientific basis (impact assessments) from which to achieve and support the sustainable management and conservation of the forests in Punta Patiño and throughout Panamá.

PROJECT: PD035/96 Rev.2 (F)
SESSION APPROVED: XX
SESSION FUNDED: XX
STATUS: OPERATIONAL
COUNTRY: PHILIPPINES
AGENCY: SUSTAINABLE ECOSYSTEMS INTL. CORP
(SUSTEC)
ITTO BUDGET(US\$): \$1,481,001.00
STARTING YEAR: 1996

TITLE: CONSERVATION AND MAINTENANCE OF BIOLOGICAL DIVERSITY IN
TROPICAL FORESTS MANAGED PRIMARILY FOR TIMBER PRODUCTION,
SURIGAO DEL SUR, PHILIPPINES

DESCRIPTION:

The aim of this project is to assess, in relation to ITTO's guidelines, the capability and effectiveness of a modified model of a medium-term sustainable forest management plan that integrates biodiversity conservation with timber production in natural forests, over a five year period. This will demonstrate that through sustainable forest management practices advocated by ITTO, timber production can be consistent with the conservation and maintenance of biological diversity in tropical production forests. A long-term monitoring and appraisal system and supporting guidelines for sustainable forest management in production ecosystem units and for land-allocations of tropical forests will be formulated. The outputs will contribute to the necessary amendment of government's policies with regard to biodiversity conservation.

PROJECT: PD037/95 Rev.2 (F)
SESSION APPROVED: XIX
SESSION FUNDED: XIX
STATUS: OPERATIONAL
COUNTRY: PANAMA
AGENCY: INRENARE
ITTO BUDGET(US\$): \$1,042,667.00
STARTING YEAR: 1996

TITLE: MANAGEMENT OF CATIVO FORESTS AND NON-TIMBER PRODUCTS
WITH THE PARTICIPATION OF RURAL AND INDIGENOUS
COMMUNITIES, DARIEN, PANAMA

DESCRIPTION:

The overall objective of this applied forest research project, is the sustainable management of "cativales", which are forests found in seasonally flooded lowlands, where cativo (*Prioria copaifera*) is the dominant species. Cativo accounts for 95% of the raw material used for plywood production in Panama. Similarly, the project is aimed at the research and management of non-timber forest species, specifically Tagua (*Phytelphas semannii*), used by

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the local communities for the production of handicrafts. In addition, the project will develop a social forestry extension program addressed to the local communities and other forest product users.

PROJECT: PD039/95 Rev.1 (F)
SESSION APPROVED: XIX
SESSION FUNDED: XIX
STATUS: OPERATIONAL
COUNTRY: COLOMBIA
AGENCY: NATIONAL CORPORATION FOR FOR.
RES. & PROMOTION (CONIF)
ITTO BUDGET(US\$): \$694.886.00
STARTING YEAR: 1996

TITLE: INSTITUTIONAL STRENGTHENING FOR THE SUSTAINABLE
MANAGEMENT OF FOREST PLANTATIONS

DESCRIPTION:

This regional coverage project is aimed at strengthening the technical and operational capacities of the Autonomous Regional Corporations (ARC's), which are in charge of areas where forest activities represent a feasible production alternative because of their background or their established potential. Technical assistance will be provided to develop regional silvicultural guides for the planning and design of Forest Establishment and Management Plans (FEMP). Up-to-date basic technical infrastructure will also be provided for the evaluation, monitoring and follow-up of the FEMP's, and training on technical and silvicultural innovations will be given to professional teams that will be responsible for the management of forest plantations within the ARC areas.

PROJECT: PD041/95 Rev.1 (F)
SESSION APPROVED: XIX
SESSION FUNDED: XIX
STATUS: OPERATIONAL
COUNTRY: GHANA
AGENCY: THE FORESTRY DEPARTMENT
ITTO BUDGET(US\$): \$333.380.00
STARTING YEAR: 1996

TITLE: PILOTING COLLABORATIVE FOREST MANAGEMENT SYSTEMS FOR
OFF-RESERVE AREAS IN SOUTHERN GHANA

DESCRIPTION:

The specific objectives of this project include:

- i) Piloting new systems for the sustainable management of the off-reserve tree and forest resource by farmers, communities, and traditional authorities in collaboration with timber concession holders and professional foresters.
- ii) Preparation of guidelines for developing collaborative forest management systems for off-reserve areas.

PROJECT: PD042/92 Rev.1 (F) II
SESSION APPROVED: XIII
SESSION FUNDED: XVIII
STATUS: OPERATIONAL
COUNTRY: PERU
AGENCY: INRENA
ITTO BUDGET(US\$): \$977.550.00
STARTING YEAR: 1996

TITLE: REFORESTATION AND SUSTAINABLE MANAGEMENT AND
UTILIZATION IN THE NATURAL CLOUD FORESTS OF JAEN - SAN
IGNACIO - PHASE II

DESCRIPTION:

This 5 year project which is divided into two phases, the first two years of which is presented with a fully budgeted proposal, aims to develop and implement a model forest management plan involving reforestation activities, natural regeneration improvement, forest extension activities, implementation of pilot wood processing mills and research activities. The overall objective of which is to lead to the sustainable management of the natural cloud forests of the Jaén and San Ignacio Provinces.

PROJECT: PD042/96 Rev.1 (F)
SESSION APPROVED: XXI
SESSION FUNDED: XXI
STATUS: OPERATIONAL
COUNTRY: PERU
AGENCY: MINISTRY OF AGRICULTURE
ITTO BUDGET(US\$): \$223.660.00
STARTING YEAR: 1997

TITLE: SUPPORT FOR THE DEVELOPMENT OF A FORESTRY AND WILDLIFE
LAW, PERU

DESCRIPTION:

This project proposes to hire a team of consultants specialized in forest development and biodiversity conservation, for a period of up to seven months, in order to provide support to the Ministry of Agriculture in the development of a draft law, which will include the new macroeconomic policy elements that are being implemented by the Government of Peru and will establish the legal basis for a sustainable forest development policy in consonance with the development needs of the country.

PROJECT: PD044/95 Rev.3 (F) I
SESSION APPROVED: XXI
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: HONDURAS
AGENCY: COHDEFOR
ITTO BUDGET(US\$): \$667.404.00
STARTING YEAR: 1999

TITLE: MANAGEMENT AND CONSERVATION OF MANGROVES IN THE GULF OF
FONSECA, HONDURAS - PHASE I

DESCRIPTION:

This project has been designed with the aim of reducing the pressure exerted by local communities on mangrove forests through the establishment and protection of fast-growing plantations for energy purposes as an alternative to meet industrial and household requirements, while creating awareness amongst the communities of the importance of conserving this ecosystem. Furthermore, socioeconomic surveys and mangrove species valuation studies will be implemented.

PROJECT: PD045/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: BRAZIL
AGENCY: TROPICAL FOREST FOUNDATION
ITTO BUDGET(US\$): \$875.281.00
STARTING YEAR: 1998

TITLE: ON-SITE TRAINING FOR TROPICAL FORESTERS AND FORESTRY
TRAINERS

DESCRIPTION:

The overall objective of this Project is to contribute to better forest resource management in the Amazon and Caribbean regions through improvements in the sustainable management and utilization of natural tropical forests. The Project aims at promoting the adoption of forest management and reduced-impact harvesting practices in Latin America and the Caribbean with a view toward sustainably managing the forests in this region, particularly in ITTO member countries.

The present two-year project aims to hands-on train selected potential trainers from Latin

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American and Caribbean ITTO member countries in on-site reduced-impact harvesting and pre- and post-harvesting silvicultural prescription (FM-RIL) practices, who in turn will disseminate the knowledge gained to forest managers and loggers in their respective countries.

PROJECT: PD049/94 Rev.1 (F)
 SESSION APPROVED: XIX
 SESSION FUNDED: XX
 STATUS: OPERATIONAL
 COUNTRY: VENEZUELA
 AGENCY: SERVICIO FORESTAL VENEZOLANO
 ITTO BUDGET(US\$): \$265,498.30
 STARTING YEAR: 1997

TITLE: ESTABLISHMENT OF AN ONGOING FOREST MONITORING NETWORK
 (PERMANENT GROWTH PLOTS) IN THE FOREST RESERVES AND
 WOODLOTS OF THE GUIANA REGION

DESCRIPTION:

The main purpose of this project is to generate statistically reliable quantitative information on the growth dynamics of species and groups of species in the high tropical forests of the Guiana Region in Venezuela under various silvicultural treatments, and to establish an information system that, together with the ongoing forest monitoring network, will facilitate the gathering of information with which to define and, if necessary, re-orient management strategies in the silvicultural planning of these forests in order to achieve the sustainable management of forest reserves and woodlots.

PROJECT: PD052/89 Rev.4 (F)
 SESSION APPROVED: XII
 SESSION FUNDED: XII
 STATUS: OPERATIONAL
 COUNTRY: CAMEROON
 AGENCY: ONADEF
 ITTO BUDGET(US\$): \$1,225,245.00
 STARTING YEAR: 1992

TITLE: FORESTRY TREATMENT BY THINNING-OUT IN THE CONTEXT OF A
 PILOT FOREST DEVELOPMENT SCHEME IN THE RESERVE FOREST OF
 SUD-BAKUNDU

DESCRIPTION:

The Sud-Bakundu Forest is typical of the moist forests in the Southeastern region of Cameroon that have a long history of both planned and unplanned logging. Much of the unplanned logging is due to small scale encroachment by local people seeking materials and cash to supplement their incomes from subsistence farming or day labor in nearby palm-oil plantations. Sud-Bakundu will form part of the 20% of the total land area that the government of Cameroon has decided will be retained as part of the permanent forest estate. While degraded to some extent by past activities, the forest still contains valuable timber and other forest resources that will need to be brought under more intensive management if their long-term sustainability is to be secured so that Cameroon can continue to be a long-term supplier to the international tropical timber trade. The proposal is to develop and begin to implement an integrated management plan for the area, so that it can act as a regional demonstration model for the development of management techniques and practices for extension to similar forests in the region.

PROJECT: PD057/97 Rev.1 (F)
 SESSION APPROVED: XXIII
 SESSION FUNDED: XXIII
 STATUS: OPERATIONAL
 COUNTRY: CHINA
 AGENCY: FORESTRY BUREAU OF HAINAN
 PROVINCE
 ITTO BUDGET(US\$): \$304,712.00
 STARTING YEAR: 1998

TITLE: ESTABLISHMENT OF SATELLITE REMOTE SENSING MONITORING AND
 GEOGRAPHIC INFORMATION SYSTEM FOR TROPICAL NATURAL
 FORESTS IN HAINAN PROVINCE

DESCRIPTION:

The project attempts to contribute to the conservation and management of the tropical natural forest resources in Hainan Province and to realize a sustainable utilization of them. The Specific Objectives are: to draw up a map of distribution of the tropical natural forest resources in the scale of 1:200,000 and to establish a GIS for tropical natural forest.

It is the aim to introduce remote sensing as an integrated part of forest resource monitoring for the sustainable management of the remaining areas of natural tropical forest as well as the artificial forest areas and to provide the basis for forest rehabilitation and expansion. If successful, the forest areas of Hainan Province will be the first in China where forest management is based on remote sensing techniques and Geographical Information Systems. Cooperation will be maintained with the project PD 13/97 Rev.1 (F) by JOFCA in Japan.

PROJECT: PD068/89 Rev.1 (F)
 SESSION APPROVED: VII
 SESSION FUNDED: VII
 STATUS: OPERATIONAL
 COUNTRY: BRAZIL
 AGENCY: IBAMA
 ITTO BUDGET(US\$): \$1,513,146.00
 STARTING YEAR: 1992

TITLE: MANAGEMENT OF TAPAJOS NATIONAL FOREST FOR SUSTAINABLE
 PRODUCTION OF INDUSTRIAL TIMBER

DESCRIPTION:

The long term aim is to introduce harvesting and management methods which secure sustained production and minimize adverse effects from forest utilization on water, soil, and animal resources. The project will contribute to this by establishing trials of techniques and methods for harvesting management and regeneration in a 5,000 ha block of the Tapajos National Forest in order to promote the optimal use of harvested material and effective integration of the Tapajos Forest utilization in the economy of the Santarem region and by publishing the results of the trials and establishing demonstration areas. A basic forest management plan has been developed and will constitute the foundation and guide for the activities of the project which will establish the application of exploitation and management trials in a block of 1,000 ha, subdivided into ten sub-blocks of 100 ha, each year. The project will be implemented over a period of five years and is expected, besides the research benefits, to generate a gross income of \$US. 3.6 million from sales of timber from the initial felling, the net portion of which will be used to cover part of the costs of protection and management of the Tapajos Forest and to expand the activities to other forests.

BETTER UTILIZATION OF TROPICAL TIMBER RESOURCES IN ORDER TO

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT: PD074/90 Rev.1 (F)
 SESSION APPROVED: VIII
 SESSION FUNDED: VIII
 STATUS: OPERATIONAL
 COUNTRY: GERMANY
 AGENCY: FEDERAL RESEARCH CENTRE FOR
 FORESTRY AND FOREST PRODUCT
 ITTO BUDGET(US\$): \$600.000.00
 STARTING YEAR: 1991

TITLE: IMPROVE SUSTAINABILITY AND REDUCE NEGATIVE ECOLOGICAL
 IMPACTS

DESCRIPTION:

The objectives of the project are to contribute to the improvement of the utilization of timber from tropical rain forests and at the same time preserve or improve their ecological functions. This will be achieved through systematic research of case studies in selected geographic areas. The project will aim at making recommendations with regard to increasing yield of timber, improving wood processing techniques, reducing residues, industrial use of residues, utilizing lesser-used species. It is proposed that the project be executed in three of the following African countries: Cameroon, Côte d'Ivoire, Ghana and Republic of Congo and in one Southeast Asian country.

PROJECT: PD089/90 (F) I
 SESSION APPROVED: VIII
 SESSION FUNDED: VIII
 STATUS: OPERATIONAL
 COUNTRY: INDONESIA
 AGENCY: MINISTRY OF FORESTRY, INDONESIA
 ITTO BUDGET(US\$): \$3.800.000.00
 STARTING YEAR: 1992

TITLE: SUSTAINABLE FOREST MANAGEMENT AND HUMAN RESOURCES
 DEVELOPMENT IN INDONESIA - PHASE I

DESCRIPTION:

The long term objectives are to contribute to sustainable forest management through the improvement of policies and practices in tropical resource management, and specifically in Indonesia, by strengthening the local capacities in forest resources management. The project have three components: (i) Improvement of forest research; (ii) Improvement of the management of conservation and protection forests; (iii) Human resources development, and improved public awareness in topics related to tropical forest management. The three components are inter-related, but can be treated as individual projects. The three components are executed simultaneously for duration of seven years.

PROJECT: PD089/90 (F) II
 SESSION APPROVED: VIII
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: INDONESIA
 AGENCY: MINISTRY OF FORESTRY, INDONESIA
 ITTO BUDGET(US\$): \$1.795.610.00
 STARTING YEAR: 1997

TITLE: SUSTAINABLE FOREST MANAGEMENT AND HUMAN RESOURCES
 DEVELOPMENT IN INDONESIA - PHASE II

DESCRIPTION:

The long term objectives are to contribute to sustainable forest management through the improvement of policies and practices in tropical resource management, and specifically in Indonesia, by strengthening the local capacities in forest resources management. The project have three components: (i) Improvement of forest research; (ii) Improvement of the management of conservation and protection forests; (iii) Human resources development, and improved public awareness in topics related to tropical forest management. The three components are inter-related, but can be treated as individual projects. The three components are executed simultaneously for duration of seven years.

PROJECT: PD099/90 Rev.1 (F)
 SESSION APPROVED: IX
 SESSION FUNDED: IX
 STATUS: OPERATIONAL
 COUNTRY: BRAZIL
 AGENCY: IBAMA
 ITTO BUDGET(US\$): \$469.000.00
 STARTING YEAR: 1992

TITLE: ESTABLISHMENT OF RIO PRETO NATIONAL FOREST

DESCRIPTION:

The long term objectives of the project are to develop a management model for sustainable production of timber and other forest products, to eliminate harmful exploitation of the forest and adverse effects of forest utilization on water, soil, and fauna. It also aims at introducing new technologies for forest exploitation and at diversifying the availability of wood and other forest products in the national and international markets.

The project will apply a sustainable production system in the Rio Preto National Forest, promote forest regeneration and enrichment, promote the utilization of lesser used species in the National Forest and disseminate the results to other actors in the forestry sector. An important additional aim is to analyze the socio-economic role of the forest and to determine its compatibility with sustainable development objectives.

Main activities in the proposed ITTO supported initial phase of the project, which will be implemented over a period of five years, are forest inventory and mapping, soil surveys, management plan development and infrastructure development.

PROJECT: PD103/90 Rev.1 (F)
 SESSION APPROVED: IX
 SESSION FUNDED: IX
 STATUS: OPERATIONAL
 COUNTRY: NEPAL
 AGENCY: INSTITUTE OF FORESTRY, TRIBHUVAN
 UNIVERSITY, NEPAL
 ITTO BUDGET(US\$): \$1.203.000.00
 STARTING YEAR: 1992

TITLE: TRAINING AND MANPOWER DEVELOPMENT IN COMMUNITY
 FORESTRY MANAGEMENT

DESCRIPTION:

The project aims at developing teaching and research skills in the field of community forestry and sustainable natural resource management at the Institute of Forestry, the main forestry training center in the country and part of the decentralized University campus system in Nepal. Besides upgrading the capacity and competency of the Institute for meeting national objectives set forth in the recently adopted Forestry Sector Plan, the project will provide technical support and incentives to develop the institute into an international, regional center of excellence in community forestry education and research.

The objectives will be reached through a visiting scholar program, over four years, consisting of 8 man-years of internationally recruited experts in relevant fields. Their tasks and duties comprise the following: a) Creation of teaching modules; b) Initiating and conducting field research projects; c) analyze, prepare, and present research findings for publication; d) Conduct

REFORESTATION AND FOREST MANAGEMENT PROJECTS

<p>PROJECT: PD106/90 Rev.1 (F) SESSION APPROVED: IX SESSION FUNDED: IX STATUS: OPERATIONAL COUNTRY: MALAYSIA AGENCY: THE SARAWAK FOREST DEPARTMENT ITTO BUDGET(US\$): \$1,750,837.00 STARTING YEAR: 1992</p>	<p>seminars and conferences near the end of the term; and e) Convene an international conference near the end of the term. All these activities will be conducted in close liaison with the Dean of the Institute of Forestry, with an overriding objective of training the local counterpart staff for self-reliance and competency to continue the program at the completion of the project.</p>
<p>PROJECT: PD115/90 Rev.1 (F) SESSION APPROVED: IX SESSION FUNDED: IX STATUS: OPERATIONAL COUNTRY: MALAYSIA AGENCY: FORESTRY DEPARTMENT HEADQUARTERS, PENINSULAR MALAYSIA ITTO BUDGET(US\$): \$550,797.00 STARTING YEAR: 1993</p>	<p>TITLE: DEVELOPMENT OF THE LANJAK ENTIMAU WILDLIFE SANCTUARY AS A TOTALLY PROTECTED AREA - PHASE I</p> <p>DESCRIPTION:</p> <p>The objective of the project is to develop the Lanjak-Entimau Wildlife Sanctuary into a Totally Protected Area (TPA) for nature conservation and as a site for biological research. The sanctuary has an area of 168,758 ha and an extension of another 18,414, has been proposed. It has a common border with a larger sanctuary in Indonesia (PD 26/93 (F)), and the development of the Malaysian TPA will be carried out in cooperation with the relevant agencies of the Government of Indonesia. The proposed project is a first phase of the envisaged development of the Lanjak-Entimau Sanctuary and involves the establishment of a management plan and the drafting of a project proposal for the second phase in which the established plan will be implemented.</p> <p>Under expanded activities of the project, a joint Expedition - Indonesia & Malaysia - to explore the biodiversity resources has been conducted (ITTO Borneo Biodiversity Expedition 1997).</p>
<p>PROJECT: PD131/91 Rev.2 (F) SESSION APPROVED: X SESSION FUNDED: X STATUS: OPERATIONAL COUNTRY: CAMEROON AGENCY: OFFICE NATIONAL DE DEVELOPPEMENT DES FORETS (ONADEF) ITTO BUDGET(US\$): \$534,000.00 STARTING YEAR: 1991</p>	<p>TITLE: REHABILITATION OF NATURAL FORESTS</p> <p>DESCRIPTION:</p> <p>The project will develop silvicultural measures for rehabilitating degraded forests and restoring their productive capacity while at the same time safeguarding environmental quality and ecological balance. The proposed project constitutes the establishment phase of a long-term research and development effort. The expected results of the project include: an information base concerning the response of degraded forests to various silvicultural treatments under different site conditions; silvicultural systems for rehabilitation of degraded forests; and assessments of cost effectiveness of various treatments.</p> <p>It also expected that a permanent study area of approximately 400 ha can serve as a research, demonstration, and training area for Malaysia and the Southeast Asia region.</p> <p>TITLE: PILOT PROJECT FOR THE SUSTAINED MANAGEMENT OF THE SO'OLALA FOREST</p> <p>DESCRIPTION:</p> <p>In the national TFAP, it was recommended that a pilot scheme be set up for forest development in the dense forests of Cameroon. The So'olala forest reserve has been selected for this scheme, as it is typical of the essentially unlogged forests that remain in the central and southern provinces of Cameroon. It is also part of the 20% of the land area the Government of Cameroon has decided to retain as its permanent forest estate and will be complemented by other programs designed to establish a national system of biodiversity reserves.</p> <p>The forest has an existing body of a data based on recent mapping, basic forest inventory and socio-economic surveys. This data has been used to draft a development plan for the reserve. This project aims to implement this plan as a model for the remaining permanent forest production areas that have not had any initial logging, and to integrate forest development with the broader socio-economic development of the area in order to reduce the pressure for encroachment.</p> <p>The main activities of the project include: a) infrastructure development; b) logging and processing; c) regeneration and enrichment; d) encouragement of agroforestry activities in the buffer zones of the reserve; e) operational inventory; and f) monitoring and research of regeneration of logged areas.</p> <p>The main expected outputs are: a) expert knowledge in silvicultural operations; b) established logging standards; c) expert knowledge of control of logging operations; and d) training of 200 staff in various forestry activities.</p>
<p>PROJECT: PD162/91 Rev.1 (F) SESSION APPROVED: X SESSION FUNDED: X STATUS: OPERATIONAL COUNTRY: PAPUA NEW GUINEA AGENCY: FOREST RESEARCH INSTITUTE ITTO BUDGET(US\$): \$1,628,000.00 STARTING YEAR: 1992</p>	<p>TITLE: INTENSIFICATION OF GROWTH AND YIELD STUDIES IN PREVIOUSLY LOGGED FORESTS</p> <p>DESCRIPTION:</p> <p>The project will attempt to consolidate and extend existing growth and yield studies in previously logged forests so as to provide data in a policy relevant form for management planning within the framework of the Papua New Guinea National Forest Action Plan. The principal focus of the study will be the permanent timber stand improvement plot system established by the Papua New Guinea Forest Research Institute. Its main objectives are: a) To provide for continuity in existing field measurements and data processing programs; b) To design and establish an expanded series of plots to cover, in time, the full range of industrially significant forest types, and to provide data on additional relevant socio-economic and</p>

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT: PD172/91 Rev.2 (F) II SESSION APPROVED: XI SESSION FUNDED: XIX STATUS: OPERATIONAL COUNTRY: COLOMBIA AGENCY: MINISTRY OF THE ENVIRONMENT ITTO BUDGET(US\$): \$632,974.00 STARTING YEAR: 1997	<p>biophysical variables: c) To develop predictive models and otherwise strengthen the Papua New Guinea Department of Forests (DOF) capacity to utilize output data from the present and expanded plot series for management planning and yield control: d) To provide a research linkage with other relevant NFAP projects and in particular to provide data management and planning support for the proposed Management and Monitoring Task Forces and the Forest Resource Inventory Programme; and e) To train additional staff to support the widening scope and intensity of the expanded permanent plot system as it develops.</p> <p>TITLE: THE RECOVERY OF NATURAL SYSTEMS OF THE HILLSIDES OF CAQUETA - PHASE II</p> <p>DESCRIPTION:</p> <p>The hillside ecosystems of Caqueta have been severely degraded as a result of past land use practices associated with colonization in the area. The overall objective of the project is to rehabilitate the forest production potential and other potential resource uses.</p> <p>The project will be implemented over a three year period and will involve resource evaluation, socio-economic research and the development of a recovery plan in consultation with affected residents. Pilot scale demonstration areas of key elements of the recovery plan, will also be established.</p>
PROJECT: PD185/91 Rev.2 (F) I SESSION APPROVED: XI SESSION FUNDED: XIV STATUS: OPERATIONAL COUNTRY: MALAYSIA AGENCY: FORESTRY DEPARTMENT HEADQUARTERS, PENINSULAR MALAYSIA ITTO BUDGET(US\$): \$1,056,789.00 STARTING YEAR: 1994	<p>TITLE: SUSTAINABLE FOREST MANAGEMENT AND DEVELOPMENT IN PENINSULAR MALAYSIA - PHASE I</p> <p>DESCRIPTION:</p> <p>The total land under natural forest in Peninsular Malaysia is estimated at 5.51 million ha, of which 2.36 million ha are logged over production forests. The logging system used to date has proved to be mechanically effective and cost efficient in lowland forests which have since been converted to agriculture. Since the operations are now moving into steeper terrain however, logging impact is damaging the residual stands, inhibiting forest regeneration and causing other environmental damage.</p> <p>The objectives of the project are two-fold. The first is to develop and disseminate better harvesting and logging methods for hill forests, while the second is to develop and extend enrichment planting techniques for logged over forests. The first objective will be achieved through activities such as reviewing existing logging methods, surveying logging damage, conducting trials to develop new harvesting methods, and the dissemination of the technology developed for industry operations. The stock, refining planting and vegetative plant propagation methods, enrichment planting trial plots covering 1,200 ha logged-over forests, and the dissemination of technology developed.</p>
PROJECT: PPD001/97 Rev.1 (F) SESSION APPROVED: XXII SESSION FUNDED: XXII STATUS: OPERATIONAL COUNTRY: CAMEROON AGENCY: INSTITUT DE LA RECHERCHE AGRICOLE POUR LE DEVELOPPEMENT ITTO BUDGET(US\$): \$82,396.00 STARTING YEAR: 1997	<p>TITLE: EVALUATION OF THE IMPACT OF DISTURBANCES AND CONSERVATION IN SITU OF THE PHYTOGENIC RESOURCE OF CAMEROON'S CLOSED FOREST</p> <p>DESCRIPTION:</p> <p>The specific objective of the Pre-project is to develop a project proposal to be submitted to ITTO in order to assess the impact of disturbances on forest stands and develop strategies for the in situ conservation of the phyto-genetic resources of Cameroon closed forest. Pre-project activities will include:</p> <ul style="list-style-type: none"> - the selection and engagement of national and international consultants; - bibliographical reviews of existing information related to the impact of disturbances on forest stands and on in situ conservation of phyto-genetic resources of closed dense forests; - review of forest inventory work so far carried out in Cameroon; - field visits; - development of a project proposal to be submitted to ITTO.
PROJECT: PPD003/97 Rev.1 (F) SESSION APPROVED: XXII SESSION FUNDED: XXII STATUS: OPERATIONAL COUNTRY: BOLIVIA AGENCY: MINISTERIO DE AGRICULTURA GANADERIA Y DESARROLLO RURAL ITTO BUDGET(US\$): \$88,198.00 STARTING YEAR: 1998	<p>TITLE: TECHNICAL ASSISTANCE TO DEVELOP A FOREST INVENTORY AND MONITORING PROGRAMME FOR THE SUSTAINABLE MANAGEMENT OF BOLIVIA'S FOREST RESOURCES</p> <p>DESCRIPTION:</p> <p>The objective of this pre-project is to gather all relevant forest inventory and monitoring information available in Bolivia and, based on the outcome, formulate a project proposal to update and consolidate the qualitative and quantitative aspects of Bolivia's forest resources through the development and implementation of a program for inventory, re-inventory and monitoring of the forest resources, as well as conditions and trends. The Bolivian government aims to use the so developed information base as a tool to formulate strategies towards the achievement of the Year 2000 Objective in Bolivia and further monitor its progress.</p>
PROJECT: PPD004/96 Rev.1 (F) SESSION APPROVED: XX SESSION FUNDED: XX	<p>TITLE: DEVELOPMENT OF A MASTER PLAN FOR FOREST MANAGEMENT IN CONGO</p> <p>DESCRIPTION:</p>

REFORESTATION AND FOREST MANAGEMENT PROJECTS

STATUS: OPERATIONAL
COUNTRY: CONGO
AGENCY: DIRECTION GENERALE DES EAUX ET
FORETS
ITTO BUDGET(US\$): \$44,385.00
STARTING YEAR: 1997

The aim of this pre-project is to define a global strategy and an action plan with the view of planning on lands suitable for forests and to developing forest management plans.

PROJECT: PPD004/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: BRAZIL
AGENCY: PRO-CERRADO FOUNDATION
ITTO BUDGET(US\$): \$51,168.00
STARTING YEAR: 1998

TITLE: REHABILITATION OF DAMAGED AREAS OF THE "CERRADO"

DESCRIPTION:

Only 8% of the natural forest cover remains in the southwestern region of the State of Goias, due mainly to the extensive agricultural, cattle ranching and charcoal producing activities developed there in recent decades. This, in turn, has resulted in a level environmental degradation that it is already affecting microclimates and water cycles, not to mention flora and fauna populations. While legislation is now in place and enforced to limit further deforestation and environmental degradation, activities and funds for the rehabilitation of degraded lands have not been forthcoming.

This pre-project intends to formulate a project proposal to correct this problem through the implementation of a pilot programme for the rehabilitation of the degraded lands in the southwestern region of the States of Goias, as well as through the sustainable management and environmental protection of the remaining forest areas.

PROJECT: PPD007/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: OPERATIONAL
COUNTRY: BRAZIL
AGENCY: IBAMA
ITTO BUDGET(US\$): \$147,700.00
STARTING YEAR: 1998

TITLE: FOREST INVENTORY FOR THE SUSTAINABLE PRODUCTION OF
MAHOGANY TIMBER

DESCRIPTION:

The objective of this pre-project is to gather all relevant information on the distribution, ecology, silviculture and management of *Swietenia macrophylla* (Mahogany) in its region of natural occurrence in the Brazilian Amazon and, based on the outcome, formulate a project proposal to update and consolidate the qualitative and quantitative aspects of Brazil's mahogany resources through the development and implementation of a cost-effective technique to inventory and monitor this species. The Brazilian government also aims to use the so developed information base as a tool to formulate strategies towards the achievement of the Year 2000 Objective as regards this highly valued species.

PROJECT: PPD007/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED: XXIV
STATUS: OPERATIONAL
COUNTRY: TOGO
AGENCY: ODEF
ITTO BUDGET(US\$): \$66,038.00
STARTING YEAR: 1998

TITLE: SUPPORT TO THE AKPOSSO POPULATION FOR THE DEVELOPMENT OF
A PARTICIPATIVE APPROACH TO FOREST MANAGEMENT IN THE BATO
AREA (NORTH AMOU)

DESCRIPTION:

The Amou Prefecture lies in Togo's forest area. It is a region suitable for the development of cash crops (coffee, cocoa). The promotion of these crops has been at the expense of the forest, which has almost disappeared in the rural countryside of the Akposso, with the exception of a few remnants more or less preserved for reasons of accessibility. The present pre-project aims to establish the general conditions in order to prepare a project proposal for the production of timber. The main idea is to reduce, or even eliminate the negative effects associated with the destruction of the vegetation cover, and to contribute to meeting the local, national, and external timber needs, and to contribute to the improvement of the living conditions of the populations concerned.

PROJECT: PPD008/93 (F)
SESSION APPROVED: XIV
SESSION FUNDED: XIV
STATUS: OPERATIONAL
COUNTRY: ITTO
AGENCY: ITTO
ITTO BUDGET(US\$): \$110,000.00
STARTING YEAR: 1996

TITLE: DEMONSTRATION AREAS FOR SUSTAINABLE MANAGEMENT OF
PRODUCTION FORESTS

DESCRIPTION:

This pre-project aims at creating awareness of the actual level of performance in achieving sustainable management of tropical production forests. Producing member countries are requested to submit to the ITTO, forest areas that can be considered managed according to the ITTO Guidelines and Criteria for Sustainable Forest Management. These forests will then serve as showcases for the practical implementation of sustainable forest management of production forests.

PROJECT: PPD011/96 Rev.2 (F)
SESSION APPROVED: XXII
SESSION FUNDED: XXII
STATUS: OPERATIONAL
COUNTRY: TOGO
AGENCY: DEPT. FOR THE PROTECTION AND
CONTROL OF FLORA UTILZTN.
ITTO BUDGET(US\$): \$59,204.00
1998

TITLE: IDENTIFICATION AND PLANNING OF MEASURES FOR THE
SUSTAINABLE MANAGEMENT OF THE KLOTO COMMUNITY FORESTS
IN THE RESERVED FOREST OF MISSAHOE WITH THE PARTICIPATION
OF RURAL COMMUNITIES

DESCRIPTION:

The specific objective of this pre-project is to formulate a project proposal which will contribute to the restoration and sustainable management of the Kloti natural forests.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

STARTING YEAR:

Pre-project activities are concerned with the engagement of consultants in order to conduct preliminary studies focussed on the following aspects:

- socio-economic survey of the project area;
- development of strategies for a better involvement of local communities in forest management activities;
- review of the status of Kloti forests and their exploitation;
- review of the national capability, in terms of personnel, administrative framework and infrastructure, with regard to the implementation of activities related to sustainable forest management.

PROJECT: PPD012/93 (F)
 SESSION APPROVED: XVI
 SESSION FUNDED: XVI
 STATUS: OPERATIONAL
 COUNTRY: ITTO
 AGENCY: ITTO
 ITTO BUDGET(US\$): \$44,000.00
 STARTING YEAR: 1994

TITLE: BIOTECHNOLOGY AND SUSTAINABLE PRODUCTION OF TROPICAL TIMBER

DESCRIPTION:

During its XVth Session, the ITTC decided to request the Executive Director of ITTO to contract a study on biotechnology issues which pertain to sustainable production, processing and marketing of tropical timber. This project has been designed in order for the Secretariat to implement this decision.

PROJECT: PPD013/96 Rev.1 (F)
 SESSION APPROVED: XXI
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: COTE D'IVOIRE
 AGENCY: SODEFOR
 ITTO BUDGET(US\$): \$84,930.00
 STARTING YEAR: 1997

TITLE: ESTABLISHMENT OF A NETWORK OF PERMANENT SAMPLE PLOTS TO MONITOR THE DYNAMICS OF THE COTE D'IVOIRE RESERVED FORESTS

DESCRIPTION:

This pre-project is aimed at establishing a network of permanent sample plots to improve existing knowledge on the dynamics of forest stands (both natural and planted) for the purpose of establishing the sustainable management of forest ecosystems in Cote d'Ivoire.

PROJECT: PPD016/96 Rev.2 (F)
 SESSION APPROVED: XXI
 SESSION FUNDED: XXI
 STATUS: OPERATIONAL
 COUNTRY: CHINA
 AGENCY: DEPARTMENT OF FORESTS, YUNNAN PROVINCE
 ITTO BUDGET(US\$): \$91,046.50
 STARTING YEAR: 1997

TITLE: DEMONSTRATION ON REFORESTATION USING TROPICAL HARDWOOD SPECIES IN YUNNAN PROVINCE OF CHINA

DESCRIPTION:

The specific objectives of the pre-project are to critically assess various aspects of tropical reforestation in Yunnan Province, China, and to formulate a project proposal to deal with the reforestation of lands in the Province with tropical hardwood species, with the participation of forestry related research and development agencies as well as local communities, especially indigenous forest dwellers and resettled populations.

PROJECT: PD002/98 Rev.2 (F,I)
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: PERU
 AGENCY: NATIONAL INSTITUTE FOR NATURAL RESOURCES (INRENA)
 ITTO BUDGET(US\$): \$601,900.00
 STARTING YEAR:

TITLE: MANAGEMENT AND UTILIZATION OF PACA (*Guadua sarcocarpa*)

DESCRIPTION:

The aim of this project is to change the destructive practices of rural communities in the harvesting of Paca (*Guadua sarcocarpa*), a native species found in both pure stands and forest patches in over 4,000,000 ha of moist tropical forest in the south-eastern region of the country, by developing technologies for the sustainable management and utilization of this species so as to achieve the two-fold objective of generating employment and enhancing the economy, on the one hand, and ensuring the conservation of resources, on the other. To this end, the project will identify a 2,000-ha area of Paca forest near Iñapari, where a management plan will be implemented and two pilot processing plants will be established for the production of canned shoots and rods of paca. The lessons learned in this project will lead to the training of local communities and will help establish the basis for the implementation of forest sub-sector strategies and policies aimed at halting the degradation of resources, ecosystems and biodiversity.

PROJECT: PD004/97 Rev.3 (F) II
 SESSION APPROVED: XXIV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: EGYPT
 AGENCY: UNDERSEC FOR AFFORESTATION, MIN OF AGRI & LAND RECLAMAT
 ITTO BUDGET(US\$): \$391,873.00
 STARTING YEAR:

TITLE: DEVELOPMENT AND PROMOTION OF AFFORESTATION ACTIVITIES IN EGYPT - PHASE II

DESCRIPTION:

The aim of this project is the sustained production of timber through afforestation activities involving local community participation. An essential component of the project will be the irrigation of planted trees with treated waste water. Outputs of the project include the formulation of policy, afforestation guidelines and action plan.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT: PD016/97 Rev.2 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXIII
STATUS: PENDING AGREEMENT
COUNTRY: THAILAND
AGENCY: THAILAND ENVIRONMENT INSTITUTE
ITTO BUDGET(US\$): \$601,333.00
STARTING YEAR:

TITLE: INTEGRATED BUFFER ZONE DEVELOPMENT FOR SUSTAINABLE MANAGEMENT OF TROPICAL FOREST RESOURCES IN THAILAND

DESCRIPTION:

This project aims to produce a working model for effective buffer zone development, which will be adopted for implementation at other sites in Thailand, and with relevance to other sites in the region. The project will also produce publications detailing the individual areas of project action particularly the research output, which will have important implications for forest managers involved in reforestation, afforestation and natural forest rehabilitation.

The targeted buffer zone is Kaeng Krachan National Park, the largest national park in Thailand. The project envisages six basic fields as a testing of a new approach to buffer zone development. These are: infrastructure development, initiating local community groups, income improvement schemes, research, tree planting, and finally awareness raising through environmental education.

PROJECT: PD017/97 Rev.3 (F)
SESSION APPROVED: XXIV
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: ECUADOR
AGENCY: CORMADERA
ITTO BUDGET(US\$): \$826,076.00
STARTING YEAR:

TITLE: PILOT PROJECT FOR THE REFORESTATION AND REHABILITATION OF DEGRADED FOREST LANDS IN ECUADOR

DESCRIPTION:

This Project seeks to define the economic, financial and environmental feasibility of forest plantations and potential funding and incentive mechanisms to develop a Pilot Reforestation Plan for degraded forest lands using selected species. The project is also aimed at strengthening the technical capacity of national human resources in this field through the establishment of a services and training unit and a national forest nursery network.

PROJECT: PD017/98 Rev.3 (F) II
SESSION APPROVED: XXIV
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: GABON
AGENCY: DIARF
ITTO BUDGET(US\$): \$339,401.00
STARTING YEAR:

TITLE: FOREST INVENTORY AND PRODUCTION OF MANAGEMENT PLANS FOR AREAS OF RESERVED PRODUCTION FORESTS IN THE FIRST ZONE OF GABON (PHASE II)

DESCRIPTION:

The project aims to carry out forest inventories covering 450,000 ha of production forests, divided into 4 areas, and to produce forest management plans. This project follows the ITTO-financed project entitled "*Stratification, mapping and multi-resource inventory for the management of Gabon's first forest zone*" (PD 8/95 Rev.1 (F)). That project made it possible to draw up a proposal for a management plan for these areas taking into account the prerogatives of the various land users. The areas that must be inventoried and managed as a priority have been identified. These are the areas which are the object of this proposal.

PROJECT: PD024/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: BOLIVIA
AGENCY: PANDO PREFECTURE
ITTO BUDGET(US\$): \$899,177.00
STARTING YEAR:

TITLE: PROJECT FOR SUSTAINABLE FOREST MANAGEMENT IN PANDO (BOLIVIA)

DESCRIPTION:

This proposal arises from the urgent need to bring the tropical forests of Pando under sustainable management, in order to ensure long-term timber production and to protect this ecologically and socio-politically fragile area of Bolivia.

While the project has been structured in two phases, this proposal only contemplates the first 2-year phase. This first phase intends to reduce the degradation of the natural resources of Pando, through sustainable forest management, with the aim of obtaining a sustainable timber supply for the export market and at the same time protecting important biodiversity resources.

Major outputs, among others, include the establishment of a legal, technical, institutional, social and economic framework for the sustainable forest management in the Department of Pando, and the development of forest management activities at the commercial level.

PROJECT: PD024/98 Rev.2 (F)
SESSION APPROVED: XXV
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: COTE D'IVOIRE
AGENCY: SODEFOR
ITTO BUDGET(US\$): \$177,610.00
STARTING YEAR:

TITLE: INTENSIFICATION OF TEAK FORESTRY

DESCRIPTION:

Two important problems are currently urging SODEFOR to seek to intensify teak forest regeneration: the teak market trend and a serious deforestation rate of approximately 150,000 hectares per annum. Until recently, 1990-1994, the price of teak timber from thinning did not reach more than an average of 6.5 thousand FCFA per m³. Prices have now risen to such an extent that even small-size lumber is absorbed by the market. Furthermore, properties tests have shown that teak logging cycles can be reduced without undermining timber quality. SODEFOR is proposing this programme with a view to introducing an option between the production of teak at 40 years with a diameter of approximately 45cm or at 20 years with a diameter of 30cm.

PROJECT: PD036/98 Rev.1 (F)
SESSION APPROVED: XXV

TITLE: ESTABLISHMENT OF FORESTRY SECTOR DRAFT DEVELOPMENT PLAN FOR SUSTAINABLE FOREST MANAGEMENT IN CAMBODIA

REFORESTATION AND FOREST MANAGEMENT PROJECTS

SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: CAMBODIA
 AGENCY: DEPARTMENT OF FORESTRY AND
 WILDLIFE
 ITTO BUDGET(US\$): \$99,004.00
 STARTING YEAR:

DESCRIPTION:

The Royal Government of Cambodia has been recently reformed the Forest Policy and Sectoral Development Programme as a whole. It is the reason for the ongoing Project Proposal to establish the Forestry Sector *Draft Development Plan* in Cambodia. The main objective of this project is to develop a long term plan and strategies for sustainable Forest Management which include the plan for Forest resources protection and conservation: for Forest Management and Utilization and for Forestry Institutional Development. The Project will analyse the existing information and current status of Cambodian Forestry Sector and Develop a *Draft Development Plan as a pre-cursor document for the next step preparation of long term development Master Plan.*

PROJECT: PD038/98 Rev.2 (F) I
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: CHINA
 AGENCY: DEPARTMENT OF FORESTRY OF
 YUNNAN PROVINCE
 ITTO BUDGET(US\$): \$672,662.00
 STARTING YEAR:

**TITLE: TECHNOLOGY DEVELOPMENT AND DEMONSTRATION ON
 REFORESTATION USING TROPICAL HARDWOOD SPECIES IN YUNNAN
 PROVINCE OF CHINA - PHASE I**

DESCRIPTION:

The specific objectives of the project are 1) to establish the sustainable technologies for different reforestation management models with tropical hardwood species at both large (forest farm based) and small (household based) scales; 2) to create a genetic improvement base for some selected hardwood species for further development of reforestation programs; and 3) to transfer the established technologies and working experiences through the establishment of demonstration areas, information dissemination and training of local forestry officials, extension workers and community leaders in tropical mountain forest areas in Yunnan Province of China.

PROJECT: PD048/98 Rev.1 (F)
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: GHANA
 AGENCY: AFRICAN ENVIRONMENTAL
 REGENERATION MOVEMENT
 ITTO BUDGET(US\$): \$576,188.00
 STARTING YEAR:

**TITLE: REFORESTATION OF THE ABUTIA PLAINS BY INDIGENOUS
 COMMUNITIES IN THE VOLTA BASIN**

DESCRIPTION:

The African Environmental Regeneration Movement, a local NGO, involved in afforestation and environmental programmes intends to carry out reforestation of 1,360 ha of the Abutia Plains. This land has been devastated through overcropping by the defunct State Farms Corporation in the early sixties up to the seventies. This has led to a situation where the inhabitants have become poorer owing to the loss of soil fertility.

The project aims at supporting the communities in a reforestation programme in order to arrest and reverse the deterioration of the tropical forest and also develop the capacity of the inhabitants to protect and manage community forest resources.

PROJECT: PD054/98 Rev.1 (F)
 SESSION APPROVED: XXV
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: PANAMA
 AGENCY: NATIONAL ENVIRONMENTAL
 AUTHORITY (ANAM)
 ITTO BUDGET(US\$): \$776,956.00
 STARTING YEAR:

**TITLE: INSTITUTIONAL STRENGTHENING OF THE GEOGRAPHIC
 INFORMATION SYSTEM (GIS) OF THE NATIONAL ENVIRONMENTAL
 AUTHORITY (ANAM) FOR THE MONITORING AND EVALUATION OF
 PANAMA'S FOREST RESOURCES WITH A VIEW TO THEIR SUSTAINABLE
 MANAGEMENT**

DESCRIPTION:

The aim of this project is to strengthen the capacity of Panama's forest sector for the monitoring and evaluation of the country's forest resources. The strategy proposed in the project to achieve this objective involves: 1) establishing a GIS in a national computer network linking ANAM's central office with its 12 regional offices; 2) training staff in the use of GIS and remote sensors as tools for the monitoring and evaluation of forest resources, and training of ANAM officers at the central and regional levels to make use of this information in the planning and sustainable management of forest resources in Panama; 3) establishing a digital mapping and data base on the basis of a preliminary evaluation of resources and drawing on the information available on natural forests and plantations; and 4) establishing a methodology for the monitoring, updating and evaluation of forest resources.

PROJECT: PD171/91 Rev.2 (F) II.II
 SESSION APPROVED: XI
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: COLOMBIA
 AGENCY: MINISTRY OF THE ENVIRONMENT
 ITTO BUDGET(US\$): \$641,101.00
 STARTING YEAR:

**TITLE: CONSERVATION AND MANAGEMENT FOR MULTIPLE USE AND
 DEVELOPMENT OF COLOMBIAN MANGROVE SWAMPS - PHASE II.
 STAGE II**

DESCRIPTION:

Mangrove forests still have quite extensive distributions in Colombia but many areas are under urban development and some have been degraded by over exploitation for both timber and other forest products such as tannin. Mangrove forests are economically important to many coastal communities. The overall objective of the project is to incorporate the management of mangrove forests into sustainable development strategies for the inhabitants of the coastal regions of Colombia.

PROJECT: PD185/91 Rev.2 (F) II
 SESSION APPROVED: XI
 SESSION FUNDED: XXV
 STATUS: PENDING AGREEMENT
 COUNTRY: MALAYSIA
 AGENCY:

**TITLE: SUSTAINABLE FOREST MANAGEMENT AND DEVELOPMENT IN
 PENINSULAR MALAYSIA - PHASE II**

DESCRIPTION:

The total land under natural forest in Peninsular Malaysia is estimated at 5.51 million ha, of which 2.36 million ha are logged over production forests. The logging system used to date has

REFORESTATION AND FOREST MANAGEMENT PROJECTS

□ FORESTRY DEPARTMENT
HEADQUARTERS, PENINSULAR
MALAYSIA

ITTO BUDGET(US\$): \$542,343.00
STARTING YEAR:

proved to be mechanically effective and cost efficient in lowland forests which have since been converted to agriculture. Since the operations are now moving into steeper terrain however, logging impact is damaging the residual stands, inhibiting forest regeneration and causing other environmental damage.

The objectives of the project are two-fold. The first is to develop and disseminate better harvesting and logging methods for hill forests, while the second is to develop and extend enrichment planting techniques for logged over forests. The first objective will be achieved through activities such as reviewing existing logging methods, surveying logging damage, conducting trials to develop new harvesting methods, and the dissemination of the technology developed for industry operations. The second, refining planting and vegetative plant propagation methods, enrichment planting trial plots covering 1,200 ha logged-over forests, and the dissemination of technology developed.

PROJECT: PPD002/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: PERU
AGENCY: NATIONAL FORESTRY CHAMBER (CNF)
ITTO BUDGET(US\$): \$50,851.00
STARTING YEAR:

TITLE: PROMOTION AND TRANSFER OF KNOWLEDGE ON SUSTAINABLE
FOREST MANAGEMENT MODELS AMONG TIMBER PRODUCERS

DESCRIPTION:

This pre-project proposal has been revised taking into account the comments and recommendations made by the ITTO Expert Panel.

The proposal is aimed at the formulation of a project for the promotion and transfer of sustainable forest management models to Peruvian forest producers who hold long-term forest concessions granted by the Government through public tender.

The proposal originated from the decision jointly agreed on by the Government and the private sector through the National Forestry Chamber to encourage the effective participation of producers in the sustainable management of forests and in the achievement of ITTO Objective 2000.

The proposal will be located in two selected areas of permanent production forest: Selva Central, covering 500,000 hectares, and Madre de Dios, covering 900,000 hectares of tropical forests, which will be granted to forest producers on long-term forest concessions.

Furthermore, the proposal envisages the implementation of a training program for timber producers in the use of ITTO guidelines and principles and sustainable forest management technologies.

PROJECT: PPD010/97 Rev.2 (F.I)
SESSION APPROVED: XXIV
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: NEPAL
AGENCY: INSTITUTE OF FORESTRY, HETAUDA,
TRIBHUVAN UNIV. NEPAL
ITTO BUDGET(US\$): \$50,000.00
STARTING YEAR:

TITLE: FORMULATION OF A PROJECT PROPOSAL FOR SUSTAINABLE
MANAGEMENT AND REHABILITATION OF NEPAL'S TROPICAL FOREST
RESOURCES THROUGH COMMUNITY PARTICIPATION AND MANPOWER
DEVELOPMENT

DESCRIPTION:

Nepal was known as an exporter of tropical timber up to 1950s, but now this scenario has changed and the country has become a net importer of the timber due to lack of scientific management of the tropical forests of the country.

At present His Majesty's Government of Nepal (HMG/N) policy is to develop the country as an exporter of tropical timber mainly of *Sal (Shorea robusta)* and its associates as well as to meet the basic domestic needs of the forest produce. The Forest Department (FD) needs support/assistance from other agencies to meet the national requirements.

The main objective of the pre-project will be to design management alternatives for the rehabilitation of degraded and over exploited forests of *Sal* and to promote forest stewardship and sustainable production of tropical timber in the country. The pre-project also proposes to develop a mutually beneficial management strategy for community plantation on common lands of rural areas in the tropical zone in order to minimize the pressure on the existing forests.

PROJECT: PPD010/98 Rev.1 (F)
SESSION APPROVED: XXV
SESSION FUNDED: XXV
STATUS: PENDING AGREEMENT
COUNTRY: CAMBODIA
AGENCY: DEPARTMENT OF FORESTRY AND
WILDLIFE
ITTO BUDGET(US\$): \$66,971.00
STARTING YEAR:

TITLE: ESTABLISHMENT OF FOREST RESEARCH BASE FOR SUSTAINABLE
FOREST MANAGEMENT IN CAMBODIA

DESCRIPTION:

The Royal Government of Cambodia, MAFF recently, decided to create a Forestry Research Institution within the Department of Forestry and Wildlife in order to support long term Sustainable Forest Management. The objective of this Pre-Project is to establish a Forestry Research base with full capacity that can serve as an instrument for upgrading technologies for sustainable Forest Management in Cambodia with a view to Forest Conservation as well as to wood sustainable use. The Pre-Project will analyse the capacity needs of Forest Management and Forestry research in Cambodia, design study the establishment of Forest Research base and Develop a Project Proposal for submitting to ITTO.

PROJECT: PPD011/97 (F)
SESSION APPROVED: XXIII
SESSION FUNDED: XXV

TITLE: ASSESSMENT OF THE FORESTRY SECTOR

DESCRIPTION:

The objective of the project is two-fold: (i) to assess and review the needs of the Forestry

REFORESTATION AND FOREST MANAGEMENT PROJECTS

STATUS: PENDING AGREEMENT
COUNTRY: LIBERIA
AGENCY: FDA
ITTO BUDGET(US\$): \$56,970.00
STARTING YEAR:

administrative structure and infrastructure, and (ii) to review technical aspects and assess the needs in connection with sustainable forest management. The main outputs include:

- A report on the forestry administrative structure;
 - A report on the infrastructural and equipment needs of the forestry sector;
 - A report on trained manpower needs;
 - A report on the existing forest resource base;
 - A report on the forest management system;
- Two project proposals on priority areas.

PROJECT: PD001/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: CAMBODIA
AGENCY: MINISTRY OF AGRICULTURE, FORESTRY
AND FISHERIES
ITTO BUDGET(US\$): \$702,550.00
STARTING YEAR:

TITLE: TEAK REFORESTATION PROJECT OF 1,100 HA AT TOEUK CHHA FOREST RESERVE KAMPONG CHAM PROVINCE

DESCRIPTION:

The Royal Government of Cambodia, in 1996, decided to transfer the responsibility of the supervision of Toeuk Chha Old forest reserve at Kampong Cham province to Department of Forestry and Wildlife with the intention to reforest this degraded area. The deforestation has resulted in environmental degradation and has affected the underground water source that supply irrigation water for the agricultural crops of the region. Reestablishment of the forest cover through plantations is necessary to conserve the environment and for meeting the demand for timber from local people. The objective of the project is to reduce the pressure for timber in the natural forests and to improve the supply for local use and industry through establishment of teak plantations on degraded and deforested lands. The project will assist capacity building in nursery techniques, plantation establishment and management, through training and research information, and strengthen the reforestation service within the Department of Forestry and Wildlife.

PROJECT: PD002/97 Rev.3 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: CAMEROON
AGENCY: ONADEF
ITTO BUDGET(US\$): \$638,000.00
STARTING YEAR:

TITLE: ESTABLISHMENT OF A DEMONSTRATION AREA FOR THE SUSTAINED UTILIZATION OF TIMBER, BASED ON A FOREST ENTERPRISE IN THE NLOBO RESERVED FOREST - PHASE I

DESCRIPTION:

The project aims to set up in the long term and on a large scale a model of tropical natural forest management for the sustained production of timber, whilst preserving the forest's ecological functions and with emphasis on respecting the interests of the local communities. The project is located in the rainforest of Southern Cameroon and falls within the National Forest Action Plan.

The project will provide for the setting up of a data bank on forest management. Under such management, the forest will also serve to demonstrate forest utilization, forest research and training methods.

PROJECT: PD003/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: MYANMAR
AGENCY: FOREST DEPARTMENT, MYANMAR
ITTO BUDGET(US\$): \$229,315.00
STARTING YEAR:

TITLE: TEAK-BASED MULTISTORIED AGROFORESTRY SYSTEM: AN INTEGRATED APPROACH TOWARDS SUSTAINABLE DEVELOPMENT OF FORESTS

DESCRIPTION:

The proposed project site is Myayabinkyaw Reserve Forest in Bago Yoma, which is renowned as the legendary home of some of the best natural teak stands in Myanmar. The Reserve Forest is degraded due to a number of social and economic reasons. The proposed project will establish teak-based multistoried agroforestry system with the objectives of rehabilitating degraded forests, evaluating the best approach for maximum possible economic returns from planted forests, cash crops and fruit trees, improving soil status and promoting people participation and partnership.

PROJECT: PD004/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GHANA
AGENCY: FORESTRY RESEARCH INSTITUTE OF GHANA (FORIG)
ITTO BUDGET(US\$): \$428,006.00
STARTING YEAR:

TITLE: SILVICULTURE AND ECONOMICS OF IMPROVED NATURAL FOREST MANAGEMENT IN GHANA

DESCRIPTION:

This project aims to increase sustainable timber production in Forest Reserves by developing improvements to the Selection System of natural forest management as practice in Ghana. The project will examine ways in which problems associated with increased harvesting may be minimised by testing the effects of revised logging practices, post-logging amelioration practices and biodiversity protection measures on the regenerative health of the forest and its rate of recovery. The project will also undertake studies on total valuation and cost of harvesting and extraction of all utilisable forest products from a unit area of land in order to determine the cost efficiency of harvesting operations.

PROJECT: PD008/96 Rev.2 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: BOLIVIA/HONDURAS

TITLE: CONSERVATION AND PEST MANAGEMENT FOR REALIZING THE POTENTIAL OF MAHOGANY AS A SUSTAINABLE CROP

DESCRIPTION:

Long-term, sustainable production of mahogany is threatened by genetic erosion, whilst

REFORESTATION AND FOREST MANAGEMENT PROJECTS

AGENCY: NATIONAL DIRECTORATE FOR FOREST
PROMOTION & PRODUCTION
ITTO BUDGET(US\$): \$807,849.00
STARTING YEAR:

large-scale production in plantations is at present limited by the attacks of the mahogany shoot borer (*Hypsipyla grandella*). Research has demonstrated the existence of genetic variation in resistance to *Hypsipyla* attack. The logical next steps are to test a wide variety of genetic material in order to identify the best genotypes, and to systematically test complementary silvicultural systems, whilst conserving the genetic base of the species. Through the implementation of these activities, the present project will establish the base for sustainable production of mahogany in plantations. The main outputs will be *Hypsipyla* resistant clones; silvicultural systems that reduce or mitigate attack; inventory and assessment of the biological control potential of natural enemies of *Hypsipyla*; techniques for genetic transformation; guidelines (based on molecular genetic analysis) for *in situ* conservation; *ex situ* conservation of threatened populations; candidate pest management systems for operational testing and/or further experimental validation. The development objective of the project is to provide the basis for sustainably increasing world trade in mahogany and mahogany products. The project will be executed by national research centres in Bolivia and Honduras, both directly and through subcontractors.

PROJECT: PD008/98 Rev.2 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GABON
AGENCY: MINISTRY OF FORESTRY AND
REFORESTATION
ITTO BUDGET(US\$): \$789,493.00
STARTING YEAR:

TITLE: DEVELOPMENT OF A DEMONSTRATION AREA IN THE SUSTAINABLE
MANAGEMENT OF GABONESE FORESTS

DESCRIPTION:

The aim of this project is to contribute to the improvement of sustainable forest management by the dissemination of the experience obtained in the pilot management of a model forest. It will reveal the ecological and economic potential of the forest. It will make it possible to develop and implement reference systems in the field of forest utilization and sustainable management, and conservation of the bio-diversity. This project will also make it possible to establish a management structure for the model forest and a practical training program in natural forest sustainable management. The practical training will enable on-site agents to assume the monitoring and control of forestry and sustainable forest management activities.

PROJECT: PD010/98 Rev.1 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: BOLIVIA
AGENCY: VICE-MINISTRY FOR NATURAL
RESOURCES
ITTO BUDGET(US\$): \$989,393.00
STARTING YEAR:

TITLE: PARTICIPATORY FOREST MANAGEMENT BY THE INDIGENOUS
COMMUNITIES OF THE CHIMANES REGION, BENI, BOLIVIA

DESCRIPTION:

This project proposal seeks to resolve some of the factors limiting the involvement of the indigenous communities in the commercial harvesting and management of their forests. The project is aimed at supporting the local communities by strengthening local organisations and developing the administrative and managerial capacity of these communities. Municipalities will be supported by strengthening the capacity of Municipal Forest Units to provide technical assistance to the indigenous communities. Techniques and methodologies will be developed so as to integrate traditional forest knowledge and uses into modern approaches.

The aim of the project is to address these limiting factors of the indigenous communities on a trial basis at the community level, initiating a process of establishment of small-scale indigenous forest industries with capacity to process and market various forest products. Thus, sustainable and integrated forest management will be encouraged, while promoting the protection of resources and generating income to improve the standard of living of the local population.

PROJECT: PD013/98 Rev.2 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: COLOMBIA
AGENCY: CONIF
ITTO BUDGET(US\$): \$718,044.00
STARTING YEAR:

TITLE: ESTABLISHMENT OF A NATIONAL NETWORK OF PERMANENT PLOTS
OF FOREST SPECIES (NPPNEFS)

DESCRIPTION:

The objective of this project is to establish a national network of a minimum of 150 permanent growth plots of forest species used in commercial reforestation in Colombia. The plots will include stands of different ages and growth patterns within established plantations. The field data produced will help to improve growth and yield rates. The project is aimed at the study of high-value tropical species previously used in commercial reforestation in Colombia. A preliminary list of these species includes *Cordia alliodora*, *Tabebuia rosea*, *Cedrela odorata*, *Bombacopsis quinata*, *Cordia gerascanthus*, *Alnus jorullensis*, *Cariniana pyriformis*, *Eucalyptus tereticornis*, *Gmelina arborea*, and *Tectona grandis*. The knowledge gained through the implementation of this project will lead to the development of better commercial plantation establishment and management plans, especially those developed through Forest Incentive Certificates (CIF) promoted by the Government of Colombia. In addition, it will be possible to improve the production of forest products, acquire a better understanding of the biological aspects of forest species, and contribute to natural forest conservation with the development of plantations under sustainable management.

PROJECT: PD014/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: PERU
AGENCY: INRENA through EDMAR

TITLE: SUSTAINABLE USE AND REFORESTATION OF AMAZON FORESTS BY
INDIGENOUS COMMUNITIES

DESCRIPTION:

The project seeks to revert the current trend of intense forest logging by seven native communities of the Pichis River Valley in the Peruvian Central Forest Region, which has resulted from a process of cross-cultural influence. The project has been developed at the

REFORESTATION AND FOREST MANAGEMENT PROJECTS

ITTO BUDGET(US\$): \$823.037.00
STARTING YEAR:

request of the native communities themselves, who, aware of the threat of deterioration of their forests and impoverishment of their people, requested technical assistance for resource management and reforestation. At a special meeting, these communities and EDMAR defined the project concept and objectives, including a democratic participatory implementation strategy. The implementation of land classification studies according to land use capacity is envisaged during the first year of project implementation. The results of these studies will be compared with current land uses and community expectations so as to develop a land management plan designating agricultural areas, pasture lands, forest production areas and environmental protection areas. This instrument, together with forest inventory surveys, will lead to the establishment of demonstration areas for technical forest management systems based on the resources available and the current resource status. A reforestation program with timber and medicinal species will concurrently be initiated using successful techniques developed by EDMAR and INRENA in the project area.

On the basis of this planning exercise, it is proposed that during the second and third year of project implementation, modern productive systems should be integrated with traditional indigenous practices through demonstration activities, training and technical assistance on sustainable resource use, further processing of timber and medicinal forest products, as well as product marketing by small-scale forest companies established through a participatory process to be developed during project implementation.

PROJECT: PD021/98 Rev.1 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: CAMEROON
AGENCY: ONADEF
ITTO BUDGET(US\$): \$857.030.00
STARTING YEAR:

TITLE: FOREST MANAGEMENT, COMMUNITY INVOLVEMENT AND
SUSTAINABLE USE OF SI-KOP FOREST AREA (COASTAL PROVINCE,
CAMEROON) (PHASE II)

DESCRIPTION:

The main output of the first phase of this project has been a micro-zoning delineating a permanent forest estate comprising both production forests and conservation forests (including a harvesting area for non timber forest products) to be classified as part of the communities estates, and one non-permanent forest estate including areas earmarked for community forestry, farm lands and agroforestry lands, residential areas, road infrastructure, etc. The second phase of this project will consist in three main thrusts of development aiming at the following objectives:

1. In the field of forest development: *"In the portion of Si-Kop forest earmarked for community forestry, forest management and development, forest operation and conservation will ensure sustainable forest use"*.
2. In the field of agriculture and agroforestry: *"Farming and agricultural revenues within organized communities have increased and sustainable land use for farming and agroforestry is secured"*.
3. In the field of tourism development: *"The recreational value of Si-Kop has been recognized by a broad section of society and local communities can derive revenues from tourism"*.

PROJECT: PD022/97 Rev.1 (F)
SESSION APPROVED: XXII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: CENTRAL AFRICAN REP.
AGENCY: MIN. FOR EVRMT., WATER, FORESTS,
HUNTING AND FISHING
ITTO BUDGET(US\$): \$1,354.836.00
STARTING YEAR:

TITLE: INTEGRATED PILOT MANAGEMENT OF A LONG-TERM LOGGING AND
MANAGEMENT PERMIT (LMP) WITH THE COOPERATION OF THE
SOCIETE SYLVICOLE DE BAYANGA, LOCAL POPULATION AND LOCAL
CONSERVATION ORGANIZATIONS

DESCRIPTION:

The objective of the project proposal is to establish a concrete and demonstrative pilot forest management of about 531,000 ha of forest involving all stakeholders of the forest ecosystem. This demonstration project is expected to facilitate the sustainable development of other forest areas in the country, with the involvement of the timber industry and the local populations. The project is also expected to be the framework for training local staff in activities related to the integrated management of dense forest ecosystems.

Main project activities include:

- aerial photography of the project area;
- multi-resources forest inventory and data processing;
- socio-economic survey of the project area and data processing;
- mapping;
- environmental survey of the project area;
- development of an integrated forest management plan.

PROJECT: PD023/97 Rev.1 (F)
SESSION APPROVED: XXII
SESSION FUNDED:
STATUS: PENDING FINANCE
BOLIVIA

TITLE: SUSTAINABLE FOREST MANAGEMENT IN THE BOLSON OF RAPIRRAN,
BOLIVIAN AMAZON REGION

DESCRIPTION:

This project proposal is the outcome of PPD 8/96 (F) "Improvement of the Initial Project

REFORESTATION AND FOREST MANAGEMENT PROJECTS

COUNTRY:
 AGENCY: WILDLIFE AND FOREST DEVELOPMENT
 DIRECTORATE (DIFOVIS)
 ITTO BUDGET(US\$): \$1,006,031.00
 STARTING YEAR:

Proposal for Sustainable Forest Management in the Bolsón of Rapirán, Bolivian Amazon Region" and is geared towards achieving sustainable forest management at both the industrial and community-based levels over an area of approximately 206,500 ha in the Department of Pando. The specific objectives of the project are to develop and implement, over a period of four years, a sustainable forest management model for the region and several municipal and/or community-based small forest products processing centres.

PROJECT: PD027/97 Rev.2 (F)
 SESSION APPROVED: XXIII
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: MALAYSIA
 AGENCY:
 ITTO BUDGET(US\$): \$543,144.00
 STARTING YEAR:

TITLE: TREE FLORA OF SABAH AND SARAWAK - Phase II

DESCRIPTION:

The project is a logical continuation of project PD 186/91 Rev.2 (F) launched in January 1993 and fully executed between April 1993 and March 1997, with the following main objectives:

- to provide up-to-date information on the botany, distribution, ecology, utilisation, conservation status and other related information on the timber trees of Sabah and Sarawak, by publishing and disseminating 8 volumes (each containing 300-350 species) of a concise TREE FLORA OF SABAH AND SARAWAK;
- to consolidate and upgrade Malaysian capability and expertise in taxonomic research, and in the survey, documentation and evaluation of tree-species diversity; and
- to strengthen the management capability of personnel of the local participating institutions.

PROJECT: PD028/97 Rev.1 (F)
 SESSION APPROVED: XXIII
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: TOGO
 AGENCY: ODEF
 ITTO BUDGET(US\$): \$708,046.00
 STARTING YEAR:

TITLE: SUSTAINABLE MANAGEMENT OF INDUSTRIAL TIMBER PLANTATIONS WITH THE PARTICIPATION OF LOCAL COMMUNITIES IN TOGO: STRATEGY AND ACTION PLAN

DESCRIPTION:

The project proposal, which is an offshoot of pre-project PPD 14/95 Rev.3 (F) "Identification and Planning of Measures for the Sustainable Management of Teak Plantations in Togo" aims at developing an overall strategy and a plan of action for the establishment and management of Teak plantations in Togo at a sustainable basis. The proposed strategy and plan of action will include the following elements:

1. Strengthening the planning capability of the forestry administration through such activities as the inventory and mapping of teak plantations, the establishment of a database for teak plantations, the training of a core staff of personnel and the establishment of efficient structures for the implementation and monitoring of plantation activities;
2. Establishing better working conditions among all parties involved in Teak plantation business, and devising measures to induce and favor active participation of local populations and private individuals in forest management activities;
3. Creating conditions to improve the income generation from Teak plantation business and to secure more resources to invest in the development of teak plantation activities.

PROJECT: PD030/98 Rev.2 (F)
 SESSION APPROVED: XXV
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: ECUADOR
 AGENCY: INEFAN
 ITTO BUDGET(US\$): \$419,748.00
 STARTING YEAR:

TITLE: STUDY OF SILVICULTURAL TECHNIQUES FOR THE SEXUAL AND ASEXUAL REPRODUCTION OF CHANUL (*Humiriastrum procerum*)

DESCRIPTION:

In 1995 the Ecuadorian Institute for Forests, Natural Areas and Wildlife (INEFAN) approved the Forest, Natural Areas and Wildlife Policy of Ecuador, which underscores the importance of promoting the development of forest resources in order to meet the population's needs for goods and services. The objective of this project is to identify silvicultural techniques for the reproduction of this endangered commercial species, the exploitation of which is currently banned. It is expected that the results obtained will allow the individuals and/or companies involved in sustainable timber harvesting to become aware of appropriate reproduction methodologies to start the establishment of Chanul plantations, thus reducing to a great extent the impact on natural tropical moist forests, particularly in the Province of Esmeraldas.

PROJECT: PD031/97 Rev.1 (F)
 SESSION APPROVED: XXIII
 SESSION FUNDED:
 STATUS: PENDING FINANCE
 COUNTRY: GABON
 AGENCY: DIARF
 ITTO BUDGET(US\$): \$842,417.00
 STARTING YEAR:

TITLE: MANAGEMENT OF THE BOKOUE FOREST - PHASE II

DESCRIPTION:

The objective of the project is two fold: (i) to initiate the implementation of the forest management plan of the Bokoue forest established under ITTO supported project PD 37/92 Rev.1 (F), and (ii) to generate more information with the view to improve the plan and forest management standards. The Bokoue forest has a total area of about 100,000 ha and the management plan had determined three series: a production series of 71,647 ha, an agricultural series of 26,028 ha and a protection series of 10,616 ha. Project activities will focus on necessary steps for the implementation of an integrated forest management plan with the participation of local communities, on monitoring timber harvesting activities carried out according to ITTO's Guidelines, and on generating the information required for the improvement on forest management standards.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT: PD031/98 Rev.1 (F)

SESSION APPROVED: XXIV

SESSION FUNDED:

STATUS: PENDING FINANCE

COUNTRY: ECUADOR

AGENCY: AIMA

ITTO BUDGET(US\$):

STARTING YEAR:

TITLE: FIRST CONFERENCE OF ANDEAN FORESTRY CHAMBERS FOR THE SUSTAINABLE MANAGEMENT OF NATURAL TROPICAL FORESTS IN THE REGION

DESCRIPTION:

To study the recently revised "Criteria and Indicators for the Sustainable Management of Natural Tropical Forests", analyse their performance and promote their application amongst timber industrialists, government forest agencies and NGO's from the Andean Community.

To exchange experiences on sustainable management of tropical forests at the Andean or regional level (case studies) in order to facilitate the transfer of silvicultural and industrial knowledge within the framework of the recently revised "Criteria and Indicators", and discuss the use of other mechanisms, such as Forest Certification, in support of SFM. Workshops will be organised prior to the Conference so as to discuss SFM case studies at the regional level with a view to developing a sound information basis on the implementation of SFM practices in the field.

PROJECT: PD033/93 Rev.1 (F) II

SESSION APPROVED: XVI

SESSION FUNDED:

STATUS: PENDING FINANCE

COUNTRY: BOLIVIA

AGENCY: MINISTERIO DE AGRICULTURA
GANADERIA Y DESARROLLO RURAL

ITTO BUDGET(US\$): \$929,930.00

STARTING YEAR:

TITLE: CONSERVATION, MANAGEMENT, HARVESTING, AND INTEGRATED SUSTAINED USE OF FORESTS IN THE CHIMANES REGION, BENI, BOLIVIA - PHASE II

DESCRIPTION:

This project, a continuation of PD 88/90 (F), will be implemented in the Permanent Production Forest areas and the Chimán Indigenous Territory in the Chimanes forest of Beni, Bolivia, with the aim of achieving sustainable forest management through the implementation of a series of pilot forest management plans in conjunction with timber companies operating within the Permanent Production Forest and indigenous communities living in the Chimán Indigenous Territory.

PROJECT: PD036/96 Rev.3 (F)

SESSION APPROVED: XXII

SESSION FUNDED:

STATUS: PENDING FINANCE

COUNTRY: CAMEROON

AGENCY: ONADEF

ITTO BUDGET(US\$): \$628,671.00

STARTING YEAR:

TITLE: SELECTION AND TESTING OF CLONAL HARDWOODS IN SPECIES RICH SYSTEMS: ENRICHMENT PLANTINGS AND MULTI-STRATA AGROFORESTS

DESCRIPTION:

The aim of the project is to improve forest management in Cameroon through clonal selection of hardwoods and producers of non-timber species and integration in different land use systems. The project builds on results of previous projects focussed on the development of vegetative propagation of timber species and development of social forestry systems implemented in Cameroon.

The project's outputs include:

- A consolidated socio-economic evaluation of the farmers' ideas and preferences that will guide species selection and systems development strategies;
- A clonal planting stock of timber and fruit trees produced and screened for planting each year;
- A consultancy report to provide the project with advice on the use of clonal material in forest systems under test and development of strong evidence for a test management strategy;
- Field trials of relevant production systems;
- An analysis of tree growth, productivity and sustainability of proposed systems;
- Community staff and villagers trained in new technologies;
- Agreed and socially accepted plans with all stakeholders;
- A stockyard of selected and genetically superior planting stock;
- Successful agroforests established;
- Dissemination of project idea and results.

PROJECT: PD038/98 Rev.2 (F) II

SESSION APPROVED: XXV

SESSION FUNDED:

STATUS: PENDING FINANCE

COUNTRY: CHINA

AGENCY: DEPARTMENT OF FORESTRY OF
YUNNAN PROVINCE

ITTO BUDGET(US\$): \$527,873.00

STARTING YEAR:

TITLE: TECHNOLOGY DEVELOPMENT AND DEMONSTRATION ON REFORESTATION USING TROPICAL HARDWOOD SPECIES IN YUNNAN PROVINCE OF CHINA - PHASE II

DESCRIPTION:

The specific objectives of the project are 1) to establish the sustainable technologies for different reforestation management models with tropical hardwood species at both large (forest farm based) and small (household based) scales; 2) to create a genetic improvement base for some selected hardwood species for further development of reforestation programs; and 3) to transfer the established technologies and working experiences through the establishment of demonstration areas, information dissemination and training of local forestry officials, extension workers and community leaders in tropical mountain forest areas in Yunnan Province of China.

PROJECT: PD040/98 Rev.1 (F) I

SESSION APPROVED: XXV

SESSION FUNDED:

TITLE: DEVELOPMENT AND IMPLEMENTATION OF A COMMUNITY-BASED SUSTAINABLE FOREST DEVELOPMENT PLAN IN THE MIGUEL RIVER

REFORESTATION AND FOREST MANAGEMENT PROJECTS

STATUS: PENDING FINANCE
COUNTRY: PANAMA
AGENCY: NATIONAL ENVIRONMENTAL
AUTHORITY (ANAM)
ITTO BUDGET(US\$): \$632,106.00
STARTING YEAR:

BASIN, DISTRICT OF DONOSO, PHASE I

DESCRIPTION:

The objective of this Forest Development Plan is "the protection and sustainable management of forests in the Donoso Project area with the participation and for the benefit of the local communities, as well as the establishment of a forest-based development model that may be applied to other forest areas in the Atlantic Region of the Republic of Panama".

PROJECT: PD042/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: BOLIVIA
AGENCY: CAMARA NACIONAL FORESTAL
ITTO BUDGET(US\$): \$489,520.00
STARTING YEAR:

TITLE: STUDY OF THE NATURAL REGENERATION AND ESTABLISHMENT OF MAHOGANY (*Swietenia macrophylla* King) PLANTATIONS

DESCRIPTION:

Long-term, sustainable production of mahogany is being threatened by genetic erosion in its natural habitat, whilst production in plantations is at present limited by the attacks of the mahogany shoot borer (*Hypsipyla grandella*). Furthermore, research to date in Bolivia as regards its natural and human-assisted regeneration is meager. The logical next step is to evaluate the regeneration of this species in its natural environment and in established plantations, and to systematically determine and apply appropriate silvicultural treatments and control methods to facilitate the reproduction of this species as an integral part of the sustainable forest management practices in Bolivia, whilst simultaneously conserving the genetic base of the species.

Through the development of these objectives, the Project intends to establish the base for sustainable production of mahogany in natural forests and plantations. The main activities involve compilation and analysis of data and the establishment of a database related to *Swietenia macrophylla* King; and research and development as regards its natural and human-assisted regeneration and appropriate silvicultural treatments. Outputs will include in situ germplasm collections, and innovating information from genetic, silviculture and pest management trials.

PROJECT: PD044/95 Rev.3 (F) II
SESSION APPROVED: XXI
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: HONDURAS
AGENCY: CONADEFOR
ITTO BUDGET(US\$): \$369,872.00
STARTING YEAR:

TITLE: MANAGEMENT AND CONSERVATION ON MANGROVES IN THE GULF OF FONSECA, HONDURAS - PHASE II

DESCRIPTION:

This project has been designed with the aim of reducing the pressure exerted by local communities on mangrove forests through the establishment and protection of fast-growing plantations for energy purposes as an alternative to meet industrial and household requirements, while creating awareness amongst the communities of the importance of conserving this ecosystem. Furthermore, socioeconomic surveys and mangrove species valuation studies will be implemented.

PROJECT: PD049/98 Rev.1 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GHANA
AGENCY: 31st DECEMBER WOMEN'S MOVEMENT -
WITH FORESTRY DPT.
ITTO BUDGET(US\$): \$589,534.00
STARTING YEAR:

TITLE: PARTICIPATORY TROPICAL FOREST DEVELOPMENT BY WOMEN IN INDIGENOUS COMMUNITIES

DESCRIPTION:

The project aims at supporting the 31st December Women's Movement an NGO and indigenous Communities in Worobong South of the Eastern Region of Ghana to develop 1,200 ha community plantation of Teak integrated with other indigenous timber species. This will improve the living standards of rural women living in the project area and also restore the integrity of a degraded forest reserve and consequently increase the supply of timber to the domestic and international interests.

PROJECT: PD051/98 Rev.1 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: COTE D'IVOIRE
AGENCY: SODEFOR
ITTO BUDGET(US\$): \$490,966.00
STARTING YEAR:

TITLE: FOREST FIRE MANAGEMENT IN COTE D'IVOIRE ON AN EXPERIMENTAL BASIS

DESCRIPTION:

The overall objective of the Project is to contribute to the protection, development and sustainable management of Côte d'Ivoire forests through the establishment of both human resources and equipment systems likely to contain the harmful effects of wildfire. Two specific objectives will be pursued under this project: (i) a better understanding of forest fire; and (ii) the development of forest fire prevention and control systems.

PROJECT: PD053/97 Rev.2 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: COTE D'IVOIRE
AGENCY: SODEFOR
ITTO BUDGET(US\$): \$282,942.00
STARTING YEAR:

TITLE: REGIONALISATION OF THE VOLUME TABLES FOR TREES OF NATURAL FORESTS AND PLANTATIONS

DESCRIPTION:

Establishment of volume tables for the trees of natural forest and forest plantations per phyto-geographical region in order to better evaluate the resource.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT: PD055/97 Rev.2 (F)
SESSION APPROVED: XXIV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GIANA
AGENCY: FRIENDS OF THE EARTH
ITTO BUDGET(US\$): \$494,850.00
STARTING YEAR:

TITLE: REFORESTATION AND PARTICIPATORY FOREST MANAGEMENT IN THE TRANSITIONAL ZONE (BRONG-AIAFO REGION) OF GIANA

DESCRIPTION:

1. Develop and implement a community-based forest management project which incorporates indigenous knowledge and practices;
2. Assist local communities to reforest denuded forestlands to provide timber and other forest products; and
3. Build the capacity of indigenous groups and organizations to protect and manage community forest resources.

PROJECT: PD060/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: PHILIPPINES
AGENCY: COLLEGE OF FORESTRY, UNIV. OF THE PHILIPPINES
ITTO BUDGET(US\$): \$1,369,892.00
STARTING YEAR:

TITLE: TECHNOLOGY DEVELOPMENT FOR THE PRODUCTION OF LESSER KNOWN TREE SPECIES (LKTS) AS ALTERNATIVE RAW MATERIALS FOR FORST-BASED INDUSTRIES

DESCRIPTION:

The Project attempts to develop appropriate technologies for the production of selected Lesser Known Tree Species (LKTS) which are potential substitutes for traditional tree species.

The Specific Objectives are: to document the general phenology of flowering and fruit development of selected LKTS in order to assess the seed potential of each species; to evaluate the environment tolerance of selected LKTS to fire, drought, acid soils and their performance in open grassland conditions; and to develop and standardize seed, nursery, mycorrhizal inoculation and plantation technologies for selected LKTS.

The target beneficiaries will be the farmers in the upland communities who will be encouraged to engage in tree farming to supply their cash income and provide raw material for the industries.

PROJECT: PD063/97 Rev.3 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: BOLIVIA
AGENCY: UNIVERSIDAD MAYOR "SAN SIMON" THROUGH ETSFOR
ITTO BUDGET(US\$): \$564,556.00
STARTING YEAR:

TITLE: SPECIALIZATION PROGRAM FOR FOREST TECHNICIANS ON SUSTAINABLE TROPICAL FOREST MANAGEMENT IN BOLIVIA

DESCRIPTION:

This project is aimed at the strengthening of ETSFOR with a view to sustainable forest resource management. To this end, the strengthening of forest professionals' skills is proposed for the sustainable management of tropical forests in the country. Thus, the specific objective of the proposal is "to strengthen the technical capabilities of forest technicians in the areas of forest management and utilisation, by increasing the quality of the technical human resources in charge of managing the forests as the main players in the planning and implementation process".

PROJECT: PPD005/97 (F)
SESSION APPROVED: XXII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: BOLIVIA
AGENCY: FORESTRY CHAMBER OF LA PAZ
ITTO BUDGET(US\$): \$46,420.00
STARTING YEAR:

TITLE: SUPPLEMENTARY INFORMATION FOR THE PROJECT PROPOSAL ON "SUSTAINABLE TROPICAL FOREST MANAGEMENT IN THE NORTH OF THE DEPARTMENT OF LA PAZ, BOLIVIA"

DESCRIPTION:

The tropical forests located in the northern region of the Department of La Paz were declared by Supreme Decree No. 23022 of December, 1991 as Permanent Production Forest Estates. Covering an area of over one million hectares, 700,000 ha are currently licensed to forest industries, the remainder being utilized by the local communities. To date, however, logging in the area is only carried out on a selective basis and reforestation efforts are minimal. Moreover, uncontrolled slash and burn agricultural practices are on the rise due to the ever increasing influx of migratory farmers due to the demographic pressures in the Bolivian highlands. Consequently, the area's forest resources, ecosystems and biodiversity may soon suffer irreversible losses unless sustainable forest management and development activities are immediately implemented.

The objective of the pre-project is to formulate a project proposal to develop and implement an integrated forest management plan that will also ensure the development of the rural economy in the area.

PROJECT: PPD006/97 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: MYANMAR
AGENCY: FOREST DEPARTMENT
ITTO BUDGET(US\$): \$50,000.00
STARTING YEAR:

TITLE: DISSEMINATION OF THE CONCEPTS OF ITTO GUIDELINES AND CRITERIA FOR SUSTAINABLE FOREST MANAGEMENT IN PRODUCTION FORESTS

DESCRIPTION:

The project attempts to enhance the long term contribution from forest resources to the social and economic development of the nation through sustainable production, management and conservation of forest ecosystems. The project will disseminate the concepts of ITTO Guidelines and Criteria for Sustainable Forest Management to forestry personnel from Bago

REFORESTATION AND FOREST MANAGEMENT PROJECTS

Division and assess the compatibility of forest management plans and their operation with ITTO Guidelines and Criteria at forest management unit level.

PROJECT: PPD009/95 Rev.2 (F)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: PHILIPPINES
AGENCY: DENR
ITTO BUDGET(US\$): \$177,072.00
STARTING YEAR:

TITLE: CONSERVATION FORESTRY: DESIGN OF A COMMUNITY-BASED PARTICIPATORY TRAINING PROGRAMME FOR NATURAL FOREST MANAGEMENT

DESCRIPTION:

The pre-project will design a demonstration training program for forest-based community members in the Philippines on the skills necessary to implement natural forest management. A second goal is to plan the dissemination of these skills to wider audiences using video and point media documenting the training activities. This pre-project will result in a participatory training program designed by forest management experts, industry and community leaders, cultural minorities, and NGO representatives. The output of this pre-project will be a proposal for pilot implementation.

The main activities are survey on communities, training and workshop to formulate a concrete proposal in conservation forestry training program design.

PROJECT: PPD010/96 Rev.2 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: TOGO
AGENCY: DEPARTMENT OF FOREST PRODUCTION (DFF)
ITTO BUDGET(US\$): \$38,240.00
STARTING YEAR:

TITLE: PRELIMINARY STUDY FOR A PROJECT ON THE PRODUCTION OF TIMBER BY THE AGROFORESTRY METHOD IN THE WAWA REGION (PLATEAUX REGION OF TOGO)

DESCRIPTION:

The promotion of revenue crops such as coffee and cocoa has led to a significant impoverishment of the local industrial timber evergreen forest in the district of WAWA, a western region of Togo. This means that the region, long considered to be the industrial timber factory of the country, can no longer fulfil its role of supplying timber products.

The main idea behind this pre-project is to set up a methodology that will enable the local communities to enrich the existing forest with industrial timber species or introduce them into agricultural space.

PROJECT: PPD016/98 Rev.1 (F)
SESSION APPROVED: XXV
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: TOGO
AGENCY: MINISTRY OF ENVIRONMENT AND FOREST PRODUCTION
ITTO BUDGET(US\$): \$59,519.00
STARTING YEAR:

TITLE: MANAGEMENT OF THE ABOULAYE FOREST ESTATE

DESCRIPTION:

The Permanent Forest Estate covers an area of 789,000 ha extending over 14% of the total land acreage of the country. It is poorly managed and subjected to pressures from various factors. Experience showed that the sustainable management of these areas can only be ensured through a consensus approach between the various stakeholders.

This project is designed to propose a management plan which would ensure the sustainability of the Aboulaye forest estate as a wildlife reserve and timber production forest. It will also enhance the capability of local surrounding communities to sustainably manage forest resources and thereby contribute to improving their living standard and socio-economic well-being. This approach is based on the effective participation of communities and builds upon the findings and results of participatory management experiences acquired under the Technical Assistance to Data Collection and Dissemination on Environment Protection Project (*Assistance Technique à la Communication et à l'Information sur la Protection de l'Environnement, Pacipe*) and draws from reports of consultation meetings held by local communities in protected forest areas and the Forest Department.

PROJECT: PPD019/96 Rev.1 (F)
SESSION APPROVED: XXIII
SESSION FUNDED:
STATUS: PENDING FINANCE
COUNTRY: GIANA
AGENCY: FORIG
ITTO BUDGET(US\$): \$163,098.00
STARTING YEAR:

TITLE: DEVELOPMENT OF AN INTEGRATED STRATEGY FOR REDUCTION OF SHOOT BORER IMPACT ON WEST AFRICAN MAHOGANY PLANTATIONS

DESCRIPTION:

The project will develop, demonstrate and disseminate an integrated plantation establishment strategy for the reduction of the impact of shoot borer in Khaya species in West Africa. It will also address the urgent need for genetic screening and conservation of mahogany germplasm which is being eroded by continuing over-exploitation.

Two phases are proposed for the project. The first phase, encompassed by the current pre-project, will be used to collect germplasm necessary for the main project phase and conduct preliminary investigations, the result of which will determine the design of the main project.

ANNEX 2
International Tropical Timber Agreement, 1994
Status of Members as at 5 January 1999

<u>Member</u>	<u>Signature</u>	<u>Provisional application</u>	<u>Ratification, accession (a), acceptance (A), approval (AA), definitive signature (d)</u>
Australia			2 Feb 1996 (d)
Austria	13 May 1996		16 May 1997
Belgium/Luxembourg	13 May 1996	13 May 1996	
Bolivia.....	17 Aug 1995		17 Aug 1995
Brazil	13 Dec 1996		28 Nov 1997
Cambodia.....	3 Feb 1995		3 Feb 1995 (A)
Cameroon	22 Dec 1994	31 Aug 1995	
Canada.....	3 May 1995		23 May 1996
Central African Republic		10 Jan 1997	
China	22 Feb 1996		31 Jul 1996 (AA)
Colombia	8 Nov 1995	9 Oct 1996	
Côte d'Ivoire	9 Sep 1996	9 Sep 1996	31 Jan 1997
Democratic Republic of Congo	17 Dec 1996	27 Mar 1997	
Denmark.....	13 May 1996		13 May 1996
Ecuador.....	1 Jun 1994		6 Sep 1995
Egypt.....	8 Nov 1994	15 May 1996	
European Union	13 May 1996	13 May 1996	
Fiji.....	27 Jan 1995	27 Jan 1995	
Finland.....	13 May 1996	13 May 1996	
France	13 May 1996	28 Oct 1996	
Gabon.....	27 May 1994	2 Aug 1995	
Germany	30 Aug 1995	30 Aug 1995	
Ghana.....	12 Jul 1995		28 Aug 1995
Greece	13 May 1996		13 Oct 1997
Guyana.....	13 Sep 1996		27 Aug 1997
Honduras.....	9 May 1995	2 Nov 1995	
India.....	17 Sep 1996		17 Oct 1996
Indonesia.....	21 Apr 1994		17 Feb 1995
Ireland	14 May 1996		
Italy	7 May 1996		25 Jun 1998
Japan.....	13 Dec 1994	13 Dec 1994	9 May 1995 (A)
Liberia.....			9 Dec 1994 (d)
Malaysia	14 Feb 1995		1 Mar 1995
Myanmar	6 Jul 1995		31 Jan 1996
Nepal.....		23 May 1997	
Netherlands.....	6 Jul 1995	6 Jul 1995	
New Zealand			6 Jun 1995 (d)
Norway	25 Jan 1995		1 Feb 1995
Panama	22 Jun 1994	4 May 1995	4 Apr 1996
Papua New Guinea	28 Aug 1995	28 Aug 1995	13 May 1996
Peru.....	29 Aug 1994		21 Sep 1995
Philippines.....	29 Sep 1995	26 Feb 1996	
Portugal.....	13 May 1996		
Republic of Congo.....	22 Jun 1994	25 Oct 1995	
Republic of Korea.....	12 Sep 1995		12 Sep 1995
Spain	12 Jan 1996	12 Jan 1996	15 Jan 1997
Suriname.....			24 Aug 1998 (a)
Sweden	13 May 1996		13 May 1996
Switzerland.....	29 Aug 1995		10 Jun 1996
Thailand	10 Apr 1996		25 Jul 1996
Togo	12 Jul 1994		4 Oct 1995 (A)
Trinidad and Tobago.....			29 Dec 1998 (a)
United Kingdom.....	13 May 1996	13 May 1996	
United States of America	1 Jul 1994		14 Nov 1996 (A)
Venezuela	4 Oct 1995		2 Mar 1998

ANNEX 3 1998 ITTO Publications

General Information

1. GI-6 Annual Report 1997
2. GI-7 Annual Review and Assessment of the World Timber Situation 1997
3. GI-8 Reports of the Sessions of the International Tropical Timber Council and Associated Sessions of the Committees on Economic Information and Market Intelligence (CEM), Reforestation and Forest Management (CRF), Forest Industry (CFI) and Finance and Administration (CFA):

ITTC(XXIII) & Committees (XXI) – Yokohama, Japan, December 1997

ITTC(XXIV) & Committees (XXII) – Libreville, Gabon, May 1998

ITTO Policy Development Series

4. PS-7 Criteria and Indicators for Sustainable Management of Natural Tropical Forests
5. PS-8 ITTO Libreville Action Plan

Pre-Project Report

6. PPR 48/98 (I) Élaboration D'un Plan Directeur en Matière D'industrialisation de la Filière bois au Gabon en Conformité Avec Les Normes de Gestion Durables des Forêts
7. PPR 49/98 (I) Policies and Measures Toward the Development of Domestic Further Processing of Tropical Timber
8. PPR 50/98 (I) Sustainable Development of the Plywood Industry in Latin America
9. PPR 51/98 (I) International Seminar of Development of the Indian Rubberwood Industry

Project Reports

10. PD 171/91 Rev.2 (F) Phase II (Stage I)
 1. Estudio de la dinámica de los bosques de manglar del Pacífico Colombiano
 2. Manual para la restauración de los bosques de manglar en áreas degradadas del Pacífico Colombiano
 3. Manual sobre dinámica de crecimiento, regeneración natural y aspectos fenológicos de los manglares del Caribe Colombiano
 4. Manual sobre técnicas de vivero y restauración de áreas de manglar del Caribe Colombiano
 5. Diversidad Cultural y Manglares del Pacífico Colombiano
 6. Conservación y Uso Sostenible de los Manglares del Caribe Colombiano
11. PD 27/93 Rev.2 (M) (Phase I)
 1. "Octavio Seminario Internacional de Formación en Estadística Forestal Tropical" Guía de Trabajo
 2. "Octavio Seminario Internacional de Formación en Estadística Forestal Tropical" Informe Final
12. PD 27/93 Rev.2 (M) (Phase II)
 1. "Cuarto Seminario Internacional de Formación en Estadística Forestal Tropical" Guía de Trabajo
 2. "Cuarto Seminario Internacional de Formación en Estadística Forestal Tropical" Informe Final

13. PD 33/93 Rev.1 (F)
 1. "Conservación, Manejo, Aprovechamiento, Uso Integral y Sostenido de los Bosques de la Región Chimanes, Beni-Bolivia", Diagnóstico Rural Participativo de Trece Comunidades Chimanes (Tomo I)
 2. "Conservación, Manejo, Aprovechamiento, Uso Integral y Sostenido de los Bosques de la Región Chimanes, Beni-Bolivia", Diagnóstico Rural Participativo de Trece Comunidades Chimanes (Tomo II)
 3. "Conservación, Manejo, Aprovechamiento, Uso Integral y Sostenido de los Bosques de la Región Chimanes, Beni-Bolivia", Propuesta de Normas y Método para Parcelas Permanentes en Bosque Remanente y No-Intervenido
 4. "Conservación, Manejo, Aprovechamiento, Uso Integral y Sostenido de los Bosques de la Región Chimanes, Beni-Bolivia", Interpretación de Resultados Del Inventario de la Mesa Remanente
 5. "Conservación, Manejo, Aprovechamiento, Uso Integral y Sostenido de los Bosques de la Región Chimanes, Beni-Bolivia", Concepto y Método de Abundancia Efectiva
 6. "Conservación, Manejo, Aprovechamiento, Uso Integral y Sostenido de los Bosques de la Región Chimanes, Beni-Bolivia", Principios de Silvicultura para El Bosque Chimanes
14. PD 5/94 Rev.3 (M) Development of Computerized Information System for the Forestry Commission of Ghana
15. PD 28/94 Rev.2 (F) Bosques y Desarrollo
16. PD 46/94 Rev.1 (M,F,I) Normas Tecnicas y Reglamentacion para la Aplicacion de la Metodologia de Clasificacion de la Capacidad de Uso Mayor de la Tierra y la Clasificacion de Bosques
17. PD 2/95 Rev.1 (F,I) PROSEA: Plant Resources of South East Asia 5 (3) Timber Trees: Lesser Known Timbers, 1998

Reports of Seminars, Workshops and other Meetings

18. SRS-32 International Training Workshop on Tropical Forestry and Timber Trade Statistics, Santa Cruz, Bolivia, 22 Sept. – 11 Oct. 1997
19. SRS-33 Investment Profiles of Selected Cocowood Utilization Technology
20. SRS-34 International Training Workshop on Tropical Forestry and Timber Trade Statistics, Cote D'Ivoire, 23 Mar. – 10 Apr. 1998

Mission Reports

21. MR-2 The Promotion of Sustainable Forest Development in Bolivia

ANNEX 4
Professional Members of the ITTO Secretariat
as at 31 December 1998

Dr. B.C.Y. Freezailah
Executive Director

Dr. Manoel Sobral Filho
Assistant Director
Forest Industry

Dr. Svend Korsgaard
Assistant Director
Reforestation and Forest Management

Mr. Takeichi Ishikawa
Assistant Director
Management Services

Mr. Amha bin Buang
Assistant Director
Economic Information and Market Intelligence

Mr. Michael Adams
Market Information Service Coordinator
Economic Information and Market Intelligence

Dr. Steven E. Johnson
Statistician
Economic Information and Market Intelligence

Mr. Charas Mayura
Finance/Administration Officer
Management Services

Mr. Emmanuel Ze Meka
Projects Manager
Reforestation and Forest Management

Mr. John J. Leigh
Projects Manager
Reforestation and Forest Management

Dr. Douglas C. Pattie
Projects Manager
Forest Industry

Dr. Efransjah
Projects Manager
Reforestation and Forest Management

Dr. Hwan Ok Ma
Projects Manager
Forest Industry

Ms. Catriona Preeble
Editor/Newsletter Coordinator
Forest Industry

Mr. Jairo Castaño Galvez
Systems Analyst
Economic Information and Market Intelligence

Mr. E. Collins Ahadome
Information Officer
Management Services

ANNEX 5

INTERNATIONAL TROPICAL TIMBER ORGANIZATION

CONTRIBUTIONS TO THE SPECIAL ACCOUNT DURING FINANCIAL YEAR 1998
(in United States Dollars)

	1998	1997
PRE-PROJECT SUB-ACCOUNT:		
AUSTRALIA	\$45,000.00	\$40,000.00
DENMARK		\$138,479.00
JAPAN (*)	\$9,843,000.00	\$11,840,000.00
REP. OF KOREA	\$10,000.00	
THE NETHERLANDS		\$91,708.00
UNITED KINGDOM	\$15,000.00	\$75,000.00
U.S.A.	\$213,750.00	\$272,344.00
PRIVATE - OTHERS	\$446.35	\$893.28
Total:	\$10,127,196.35	\$12,458,424.28
PROJECT SUB-ACCOUNT		
AUSTRALIA	\$86,333.00	\$135,000.00
CANADA	\$50,000.00	\$0.00
DENMARK		\$200,000.00
FRANCE		\$24,371.52
JAPAN	\$469,000.00	\$753,000.00
JAPAN (Forestry Ag.)	\$984,465.26	\$1,007,468.23
REP. OF KOREA	\$20,000.00	\$100,000.00
THE NETHERLANDS	\$240,000.00	\$489,989.39
SWITZERLAND	\$2,000,000.00	\$2,081,454.24
U.S.A.	\$930,000.00	\$313,000.00
COMMON FUND FOR COMMODITIES	\$60,798.00	\$419,404.32
JLIA	\$38,881.63	\$40,738.48
PRIVATE - ITO YOKADO CORP.	\$80,842.77	\$80,426.76
PRIVATE - YORK MART	\$34,599.07	\$34,088.29
Total:	\$4,994,919.73	\$5,678,941.23

(*) Part of funds were later allocated to Project Sub-Account.