



ITTO

**INTERNATIONAL TROPICAL
TIMBER COUNCIL**

Distr.
GENERAL

ITTC(XXIV)/2
16 February 1998

Original: ENGLISH

TWENTY-FOURTH SESSION
20-28 May 1998
Libreville, Gabon

DRAFT ANNUAL REPORT FOR 1997

(Item 18 of the Provisional Agenda)

1. ORGANIZATION, ADMINISTRATION AND SUMMARY OF ACTIVITIES

1.1 MEMBERSHIP

This was the first 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 May 1985. The forty-nine Members of the ITTO listed below accounted for over 80% of the world's closed moist tropical forest and more than 95% of the international trade in tropical timber.

CURRENT MEMBERSHIP OF ITTO (under ITTA, 1994)

31.12.1997

PRODUCERS

Africa

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

Asia & Pacific

Cambodia
Fiji
India
Indonesia
Malaysia
Myanmar
Papua New Guinea
Philippines
Thailand

Latin America & Caribbean

Bolivia
Brazil
Colombia
Ecuador
Guyana
Honduras
Panama
Peru

CONSUMERS

Europe

European Union#:
-Austria
-Belgium/Luxembourg
-Denmark
-Finland
-France
-Germany
-Greece
-Netherlands
-Spain
-Sweden
-United Kingdom
Other Europe:
-Norway
-Switzerland

N. America

Canada
United States of America

Asia

China
Japan
Nepal
Republic of Korea

Oceania

Australia
New Zealand

N. Africa

Egypt

A Member in its own right

The status of Members as at 31 December 1997 in terms of the ITTA, 1994 is summarized in Annex 2.

1.2 INTERNATIONAL TROPICAL TIMBER COUNCIL

1.2.1 Officers of the Council

At its Twenty-first Session, the Council had elected H.E. Ambassador Wisber Loeis (Indonesia) its Chairperson and Ms. Stephanie Caswell (U.S.A.) as its Vice-Chairperson for 1997. Decisions on both of these appointments were unanimous. During the year under review, Mr. David Drake (Canada) served as Spokesperson for the Consumer Group and Mr. Edward Nsenkyire (Ghana) as Spokesperson for the Producers.

1.2.2 Twenty-second Session of the Council

The Twenty-second Session of the ITTC was held in Santa Cruz de la Sierra, Bolivia, from 21 to 29 May 1997. The Session was attended by 39 ITTO Members and 28 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 among others.

The Session received a welcome speech from H.E. Mr. Sanchez de Lozada, President of Bolivia. It was chaired by H.E. Ambassador Wisber Loeis, Chairperson of the Council, and opened by H.E. Mr. Moisés Jarmusz Levy, Minister of Sustainable Development and Environment of Bolivia. Among the Decisions made by Council were the establishment of conditions for accession to the ITTA, 1994, a re-organization of working procedures to streamline Committee Sessions and to shorten the Council Sessions, further proposals to assist the Intergovernmental Panel on Forests, new terms of reference for the Expert Panel on Technical Appraisal of Project Proposals, a revision of ITTO's project-related guidelines and manuals, and work on intellectual property rights.

Voluntary contributions to the Special Account announced included US\$1million from the U.S.A., US\$100,000 from the Republic of Korea, and US\$135,000 from Australia. Japan announced that it had contributed US\$13, 852,600 for 1997, and the U.S.A. indicated that it was considering a contribution to the Bali Partnership Fund.

1.2.3 Twenty-third Session of the Council

The Twenty-third Session of the ITTC was held in Yokohama, Japan, from 1 to 6 December, 1997. This was the first occasion for Council to experiment with the new six-day continuous Session. It was attended by 41 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, academic institutions and timber trade associations among others.

The Session was chaired by the Chairman, H.E. Mr. Wisber Loeis (Indonesia), and among the dignitaries present were the Hon. Datuk Pandikar Amin Haji Mulia, Minister of Agriculture and Fisheries, Sabah, Malaysia; the Hon. Mr. NayanMoses Bilijo, Deputy Minister of Lands and Forestry, Ghana; the Hon. Alvaro Riveros Tejada, Vice-Minister of Natural Resources, Ministry of Agriculture, Bolivia; and Mr. Minoru Shibuya, Deputy Director-General, Economic Affairs Bureau, Ministry of Foreign Affairs, Japan. Council Decisions included authorization for a study on impediments to market access of tropical timber in all member countries; further work on criteria and indicators for the measurement of sustainable management of natural tropical forests and on the revision of the ITTO Action Plan, which would include a Mission Statement, and final agreement on the revised Rules of Procedure and the Financial Rules and Rules relating to Projects of the ITTO.

The Session had been preceded for the first time by a meeting of the Informal Advisory Group set up to assist the Council organize its work, and by the Informal Working Group to Evaluate Reports on Ongoing and Completed Pre-Projects and Projects whose role was to streamline the work of the committees.

Voluntary contributions to the Special Account announced included US\$2 million from Switzerland, \$1,331,547 from the Netherlands, and 150,000 FF from France. Both Switzerland and the Netherlands indicated their intention of contributing later to the Bali Partnership Fund.

1.3 THE COMMITTEES

1.3.1 Officers of the Committees

During 1997 Mr. Geoffrey Pleydell (U.K.) and Dr. Roszehan Mohd. Idrus (Malaysia) served as Chairperson and Vice-Chairperson respectively of the Committee on Economic Information and Market Intelligence.

Mr. Jürgen Blaser (Switzerland) and Mr. Anoh Emile Jean Claude (Côte d'Ivoire) served as Chairperson and Vice-Chairperson respectively for 1997 of the Committee on Reforestation and Forest Management.

Mr. Bile Allogho Joachim (Gabon) and Ms. Aulikki Kauppila (Finland) served as Chairperson and Vice-Chairperson respectively of the Committee on Forest Industry throughout the year.

1.3.2 Associated Sessions of the Committees

These Sessions were held in conjunction with the Twenty-second and Twenty-third Sessions of the Council. The new Committee on Finance and Administration met for the first time at the Twenty-second Session of the Council.

The Annual Market Discussions, held under the auspices of the Committees in Joint Session, addressed the theme "The Expansion of Trade in Tropical Timber Products Domestically and Abroad - with a Special Focus on the Latin American Experience". The Moderator was Ms. Wendy Baer (International Hardwood Panel Association). The seven speakers considered trade flows, market trends and prices, and the opportunities and risks of the U.S., E.U., and Japanese markets. There were special papers on Brazil and Bolivia, especially dealing with investment in wood processing, and a lively debate on the U.S./Bolivia proposal to have Swietenia macrophylla (Mahogany) included in Appendix II of CITES. Finally, it was suggested that informal trade meetings at the Sessions could serve as springboards for launching ideas and proposals to ITTO.

At their Twentieth and Twenty-first Sessions, the Committees on Economic Information and Market Intelligence, Reforestation and Forest Management, and Forest Industry technically appraised a total of 43 projects and pre-project proposals and recommended that 35 projects and 11 pre-projects be approved by Council. As usual, the Committees reviewed projects and pre-projects under implementation and received reports on those that had been completed. At the Twenty-second Session, this work was assisted by the pre-evaluations of the Informal Working Group.

The Fellowship Selection Panel, composed of the Chairpersons and Vice-Chairpersons of the Committees, and chaired by the Vice-Chairperson of the Council, considered 157 applications at the ITTC(XXII) and 137 at the ITTC(XXIII) under project PD 1/93 Rev.1 (M,F,I) and proposed the names of 30 awardees at the ITTC(XXII) and 29 at the ITTC(XXIII) to the Council for its approval. The Committee proposed that in future the Fellowship Selection Panel should consist of 3 producers and 3 consumers appointed at the May Session for the whole year and preferably including the outgoing chairs of the four committees. The Vice-Chairperson of the Council would continue to chair the Committee.

1.4 Informal Groups

1.4.1 Informal Advisory Group

The IAG established under Decision 3(XXIII) met for the first time on 30 November, 1998, before the commencement of the Twenty-third Session, chaired by the Chairperson of Council, the Group comprised the Vice-Chair of Council, the Chairs of the four main committees, the Producer and Consumer spokespersons and the Executive Director. The IAG would provide advice to Council on strategic priorities and policy options; request the Committee on Finance and Administration to assess the staffing needs of ITTO; provide advice on the need to examine previous Council decisions; consider priorities related to public relations; advise Council on coordination and cooperation with external agencies; and propose informal joint producer/consumer sessions to address policy options and strategies. It singled out for urgent action the Action Plan, the Criteria and Indicators, the Guidelines on Forest Industries, streamlining the work of the committees, the Basic Control Documents, market issues and the IFF. The Group considered that the Action Plan should contain a "mission statement". It recognised the link between the Year 2000 Objective and the Bali Partnership Fund and urged that efforts be made to complete procedures for this fund to be activated and that more resources be found.

1.4.2 Informal Working Group on Evaluation of Reports from On-going and Completed Projects and Pre-Projects

The IWG met for the first time three days prior to the Twenty-third Session and assessed 102 projects and 22 pre-projects under implementation and identified 55 which required discussion and decision in the Committees. Additionally, the Group identified 10 project and pre-project proposals which had fully addressed the recommendations of the Expert Panel and also assessed 5 completed projects and 6 pre-projects.

Monitoring and evaluation were also discussed by the Working Group, which emphasized the use of mid-term, terminal and ex-post evaluations, making full use of the regional consultant services whenever possible. Policy issues needing an evaluation of progress included statistics, community participation, lesser used species, and model forests.

1.5 SUMMARY OF PROJECTS, PRE-PROJECTS AND OTHER APPROVED ACTIVITIES

Table 1. Summary of Projects, Pre-projects, and other Approved Activities Funded in 1997
(in US\$)

	PROJECTS		PRE-PROJECTS		ACTIVITIES		TOTAL	
	No.	ITTO Funding	No.	ITTO Funding	No.	ITTO Funding	No.	ITTO Funding
Economic Information and Market Intelligence	4	1,960,019	1	63,200	—	—	5	2,023,219
Reforestation and Forest Management	22	12,703,201	5	428,666	—	—	27	13,131,867
Forest Industry	11	4,738,029	2	54,310	—	—	13	4,792,339
Council	—	—	—	—	6	519,541	6	519,541
TOTAL	37	19,401,249	8	546,176	6	519,541	51	20,466,966

Notes:

(1) "Activities" approved by the Council include *inter alia* the bi-annual Expert Panels for the Technical Appraisal of Project Proposals, other Panels and Working Groups with specific objectives and major consultancy assignments.

(2) Figures include extensions and new phases of existing projects (10) and pre-projects (1).

As in previous years, approvals in the field of reforestation and forest management accounted for about two-thirds of the total, although in 1997 there was a rise in the number of approvals in the field of Forest Industry. It should be recalled that all ITTO funding is by grant. Annex 1 gives further details of individual projects and pre-projects, and Annex 5 lists contributions to the Special Account during the year.

Table 2. Projects, Pre-Projects and Other Approved Activities Funded for All Divisions 1987-1997 (ITTC(II) - ITTC(XXIII))
(In US \$)

WORK	STATUS	No.	TOTAL BUDGET	ITTO FUNDING
Projects	Completed	124		\$ 43,089,581
	Operational	108		\$ 88,287,728
	Pending Contract	18		\$ 8,988,320
	Sub-Total	250	\$ 184,318,376	\$ 140,365,629
Pre-projects	Completed	64		\$ 6,570,284
	Operational	29		\$ 2,688,968
	Pending Contract	5		\$ 428,097
	Sub-Total	98	\$ 12,720,753	\$ 9,687,349
Approved Activities	Completed	49		\$ 6,374,505
	Operational	12		\$ 1,512,094
	Pending Contract	2		\$ 220,635
	Sub-Total	63	\$ 8,107,234	\$ 8,107,234
TOTALS		411	\$ 205,146,363	\$ 158,160,212

1.6 SUMMARY OF THE WORLD TROPICAL TIMBER SITUATION

This summary provides data on production and trade of tropical forest products and the status of tropical forests in ITTO member countries, as well as overview statistics of production and trade of all timber products in these countries, based on ITTO's 1997 Annual Review and Assessment of the World Timber Situation (ITTO document GI-7/97). Data are presented up to and including 1997 based on projections or estimates made in the third quarter of that year; these estimates should be viewed with caution due to the effects of the economic turmoil that began in Asia in mid-1997. 1995 is used as the base year for all global comparisons as this is the latest year for which global data were available at the time of preparation. Statistics comparing tropical to all timber production and trade for all ITTO members in 1996 are given in the following table.

ITTO Summary Statistics, 1996												
	Logs			Sawnwood			Veneer			Plywood		
	All	Trop. (%)		All	Trop. (%)		All	Trop. (%)		All	Trop. (%)	
Production (mil. m ³)	808	172	(21)	363	62	(17)	6	3	(50)	50	21	(42)
Imports (mil. m ³)	56	15	(27)	99	8	(8)	2	1	(50)	17	11	(65)
Imports (mil. \$)	9721	3094	(32)	24339	3476	(14)	2027	658	(32)	7466	5426	(73)
Exports (mil. m ³)	42	14	(33)	95	7	(7)	2	1	(50)	17	13	(76)
Exports (mil. \$)	6838	2189	(32)	21769	2702	(12)	1730	584	(34)	8250	6164	(75)

Production

Production of tropical saw and veneer logs in ITTO producer countries totalled 171.5 million m³ in 1996, a 2% decrease from 1995 levels. Log production increased slightly in 1997, to 171.8 million m³, due to increases in Latin America. Tropical log production was equivalent to 21% of total saw and veneer log production from all forests in all ITTO member countries in 1996. The proportion of logs domestically processed in Africa fell from almost 70% in 1992 to an average of 62% in the 1995-97 period (largely due to increased log exports to Asia). The Asian figure for domestic processing grew from 89% to 91% over the same period and is expected to 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 1995-97. Sawnwood production by ITTO producers totalled 59.7 million m³ in 1996, down nearly 2% from 1995 levels. This decrease was due to production falling throughout Asia, which masked continuing production increases in Latin America. In 1997 sawnwood production recovered slightly to just under 60 million m³. Tropical hardwood veneer production fell dramatically to 2.3 million m³ in 1996, a 31% drop from 1995 levels. This drop was due to a 44% fall in Asian veneer production. Production by ITTO producer members increased slightly to about 2.4 million m³ in 1997. ITTO producer countries' plywood production was stable in 1996, at just under 16 million m³. Indonesia's plywood production declined 6% from 1995 levels, while Malaysia's production continued its steady climb. Plywood production in producer countries rose to 16.6 million m³ in 1997. ITTO consumer countries also produced substantial quantities of tropical timber products in 1996. Tropical China (455 000 m³) and Australia (39 000 m³) together produced a total of 0.5 million m³ of tropical logs. Consumer countries produced 2 million m³ of sawnwood, 0.5 million m³ of veneer and over 5 million m³ of plywood, largely from imported tropical logs. Production levels of tropical sawnwood and plywood in ITTO consumer countries dropped in 1997 as the supply of tropical logs available for processing continued to shrink.

Exports

Total ITTO producer country exports of primary tropical timber products were worth \$11.3 billion in 1995 and just over \$11 billion in 1996, equivalent to an average of 25% of exports of all primary timber products by all ITTO members in these years. Asia accounted for 80% of the 1996 total, Africa for 13% and Latin America the remainder. ITTO producer countries exported 14.3 million m³ of logs in 1996 worth almost \$2.2 billion, with Malaysia providing about half of this volume, down from almost three-quarters in 1992. Log exports in 1996 were down almost 13% from 1995 levels and 19% from 1994 levels, continuing the steady decline of the past decade. ITTO log exports, which rose slightly in 1997, have fallen by almost half since the beginning of the decade. Sawnwood exports by producer members fell almost 10% to 7.2 million m³ valued at over \$2.5 billion in 1996, declining 14% further to 6.2 million m³ in 1997. Falling Malaysian and Brazilian sawnwood exports account for these decreases. However, Malaysia remained the largest tropical sawnwood exporter in 1996, accounting for 51% 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 is already being felt and will continue to affect the tropical timber trade. Veneer was the only primary tropical timber product for which exports from ITTO producer countries increased in 1996, up over 9% from 1995 levels to over 1.2 million m³ worth \$517 million, remaining at

that level in 1997. This increase was due to continuing expansion in Malaysian exports despite reported production decreases. Tropical plywood exports by producer members in 1996 dipped slightly to 12.2 million m³ worth \$5.8 billion; Indonesia with 8 million m³ and Malaysia with 3.4 million m³ accounted for 93% of this total. Exports climbed to almost 13 million m³ in 1997. Malaysia's plywood exports have risen almost 50% in five years and now account for almost one third of total ITTO exports. ITTO consumer countries also exported or re-exported substantial quantities of tropical timber in 1996, led by sawnwood and plywood exports of 257 000 and 484 000 m³ respectively. Log and veneer exports by consumer countries are smaller (86 000 and 50 000 m³ respectively in 1996). Tropical log, sawnwood and plywood re-exports from consumer countries declined in 1997, reflecting decreased availability/demand for tropical logs in Europe, where the majority of the trade in tropical timber products between consumer countries occurs. The total value of exports by consumer countries in 1996 was \$581.7 million, bringing the ITTO total tropical timber export value figure to just above \$11.6 billion.

Imports

Total consumer country imports of tropical timber products in 1995 were worth \$11.9 billion, dropping to \$11.2 billion in 1996, with Japan (42%), the European Union (EU - 24%), China - including Taiwan Province of China (18%) and Korea (8%) the main importers by value. Producer country imports of tropical timber products totalled almost \$1.5 billion in 1995 and 1996, giving a total ITTO import value of \$12.7 billion in 1996. Thailand (60%) and the Philippines (22%) were the main producer country importers by value. The value of total ITTO tropical imports was equivalent to 29% of the value of imports of all primary timber products by all ITTO members in 1996.

Tropical hardwood log imports by ITTO consumer countries fell by almost 13% in 1996, to 11.9 million m³, worth \$2.6 billion. If imports by producing members are taken into account, total 1996 tropical log imports by ITTO members were just over 15 million m³ (valued at over \$3 billion), 12% less than in 1995 and almost one-quarter less than in 1993. This drop reflects the decreased supply of tropical logs from producer countries. The 1996 total log import figure is 0.7 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 1.6 million m³ in 1997, indicating that additional pressure was placed on non-ITTO log suppliers, although under-reporting of log exports, misclassification of imports and/or statistical errors may also be contributing factors. Japan remained the dominant importer of tropical logs in 1996, accounting for almost 52% of all consumer country log imports, despite a drop of 6% to 6.2 million m³. Japanese tropical log imports were stable in 1997. Thailand and the Philippines are the major ITTO producing country log importers, at about 0.9 million m³ each in 1996. Imports by Thailand were down sharply in 1996 but rose again to 1.2 million m³ in 1997, while those of the Philippines continued to increase to almost 1.1 million m³, double its 1993 imports.

Thailand's imports of tropical sawnwood rose 6% to just under 2.1 million m³ in 1996 but fell to under 1.9 million m³ in 1997. Thailand remains ITTO's largest tropical sawnwood importer, although the Philippines reported a massive jump in its 1997 sawnwood exports (to 2 million m³) that needs to be clarified. Japan's imports of tropical sawnwood fell 10% to 1.2 million m³ in 1996, remaining at this level in 1997. Imports of tropical sawnwood by consumer countries fell sharply in 1996 to 4.9 million m³, before recovering slightly to 5.1 million m³ in 1997. The decrease in total ITTO tropical sawnwood imports of almost 12% (to 8.5 million m³ valued at almost \$3.5 billion) in 1996 was primarily attributable to large decreases in Korean and EU imports. Imports rose sharply to 9.5 million m³ in 1997 (largely due to the unexplained jump in the Philippines), about three million m³ greater than total ITTO exports of tropical sawnwood in that year. This gap is too large to be accounted for by non-ITTO exports and probably indicates errors in estimates for 1997 by importers, exporters or both.

Total ITTO tropical veneer imports increased by 11% in 1996, to 1.2 million m³ valued at \$658 million. Imports in 1997 were up 17% to over 1.4 million m³, with the bulk of this increase due to a reported fourfold increase in the Philippines which at 340 000 m³ displaced China as ITTO's dominant importer of tropical veneer in 1997. The EU absorbed 335 000 m³ of tropical veneer in 1996 and 1997, over one-third of total ITTO imports. Japan imported 109 000 m³ of tropical veneer in 1996, 17% less than in 1995. Japan, with substantial restructuring underway in its wood panels industry, saw tropical veneer imports drop further to 107 000 m³ in 1997.

Tropical plywood imports continue to be led by Japan, which absorbed over 4.8 million m³ in 1996, up 19% from 1995. Japan's imports made up 44% of total ITTO imports of 11.5 million m³ (valued at over \$5.4 billion) in 1996. Tropical plywood imports increased to just over 11.8 million m³ in 1997. In contrast to logs and sawnwood, total ITTO imports of tropical veneer and plywood have been consistently less than or equal to total ITTO exports of these products, indicating the dominance of ITTO exporters in plywood markets.

Prices

Real prices for most primary tropical timber products and species exhibited stable or declining trends during 1996-97, although there were significant fluctuations in prices in many cases. Asian log prices were slightly up or stable for most major species, and major species of Asian sawnwood saw recovering real prices in 1996 but declining real prices in the first half of 1997. Asian sawnwood prices were affected by the rapid depreciation of the Thai baht in the second half of 1997 and a consequent decline in demand. For many products and species, real prices in late 1997 were only slightly above the levels that prevailed prior to the price spike caused by the cessation of Sabah log exports in early 1993. African sawnwood showed sharp price increases in mid-1996 due to log bans in Côte d'Ivoire, and harvest restrictions and increased export levies in Ghana. Latin American sawnwood prices were mostly stable until the first half of 1997, but started dropping during the latter half of the year. Real plywood prices were also stable during 1996 but declined in the second half of 1997 with prices in the Japanese market showing more volatility than those in America and Europe. A sharp economic downturn in Asia in the second half of 1997 was putting strong downward pressure on most prices at the time of preparation of this Review. Apart from supply and demand determinants, the recorded prices for tropical timber products in all regions in 1996-97 have fluctuated due to exchange rate variations, consumer stockpiles and general economic conditions.

Secondary Products

Markets for secondary processed wood products (SPWP) from developing countries and ITTO producers in particular continued to expand in the first half of the decade. Japan and the USA continue to have the largest proportion of their markets for SPWP accounted for by ITTO producers, at 36 and 22% respectively. Although ITTO producer countries had only a 8% share of the EU market for SPWP in 1995, the magnitude of this huge market meant that the value of this share (at over \$1.25 billion) exceeded that of their Japanese market share and almost equalled that of their share of the US market. Imports of SPWP by ITTO consumers from ITTO producers reached almost \$4 billion in 1995, equivalent to one-third of the value of their imports of primary tropical timber products from these countries. The top ITTO producer country exporters of SPWP in 1995 were Indonesia, Malaysia, Thailand, Brazil and the Philippines.

1.7 THE INTERNATIONAL TROPICAL TIMBER AGREEMENT, 1994

At a meeting convened in accordance with Article 41(3) of the ITTA, 1994 at the UNCTAD Headquarters in Geneva, Switzerland, on 13 September 1996, those countries which had definitively signed, ratified, accepted, approved, acceded to, or would provisionally apply the ITTA, 1994 decided unanimously to bring the treaty into force on 1 January 1997. This was therefore the first year of operation under the ITTA, 1994.

1.8 OTHER ACTIVITIES

The Thirteenth and Fourteenth Expert Panels for Technical Appraisal of Project Proposals were held in Yokohama in February and August respectively. Both Panels were chaired by Mr. Ambarish Chaubey (India).

The Organization's headquarters also hosted four other Expert Panels during the course of the year, as follows:

- January: Organization of Work under the ITTA, 1997 (Chairperson: Mr. Kwame Asumadu of Australia).
- March: Resource Needs and Costs Incurred in Achieving the Year 2000 Objective (Chairperson: Mr. Jürgen Blaser of Switzerland, Co-Chairperson: Mr. Beni D. Nasendi of Indonesia).
- August: Revision of the ITTO Action Plan (Chairperson: Mr. Patrick Hardcastle of the United Kingdom).
- September: Criteria and Indicators for the Measurement of Sustainable Management of Natural Tropical Forests (Chairperson: Mr. Don Wijewardana of New Zealand).

ITTO was also represented with observer status at the fourth and final session of the Open-Ended Inter-Governmental Panel on Forests (IPF) in February and at the first Session of its successor body, the Open-Ended AdHoc Inter-Governmental Forum on Forests (IFF) in October. The Organization also participated as a observer at the Fifth Session of the U.N. Commission on Sustainable Development (CSD) in April at U.N. Headquarters, where the final IPF Report was received, and at the Special Session of the United Nations General Assembly (UNGASS) in June.

ITTO is an active member of the Informal High-Level Inter-Agency Task Force on Forests (ITFF) and the Executive Director is a Commissioner of the World Commission on Forests and Sustainable Development (WCFSD), now headquartered in Washington, D.C., whose meetings were held at Baarn, near Amsterdam, Netherlands in April and in September in St. Petersburg, Russia.

The Organization convened a side meeting on Friday, 17 October at the XIth World Forestry Congress held in Antalya, Turkey. The subject was the work of ITTO over its first decade in the field of sustainable forest management and speakers from Cameroon, Indonesia, and Brazil described the activities of three ITTO projects in their respective countries. The Vice-Chairperson of Council, Ms. Stephanie Caswell (U.S.A.) presided over the meeting, and about 150 delegates attended. ITTO had also, earlier in the Congress, presented a paper on its work with criteria and indicators for measurement of sustainable management of natural tropical forests.

Annex 3 lists new ITTO publications for 1997. The Organization continued to make these widely available on an economical basis. ITTO's quarterly newsletter "Tropical Forestry Update", and its fortnightly review "Market Information Service" are produced at headquarters.

1.9 THE SECRETARIAT

There were a number of changes in the staff during the year. Among the Professional staff, Mr. James E.K. Aggrey-Orleans separated from service as Assistant Director for Economic Information and Market Intelligence on 30 November 1997. Mr. Jairo Castañó Galves joined the Organization on 1 August 1997 as Systems Analyst in Economic Information and Market Intelligence. Among the General Service staff, Mr. Rikio Shinohara reached statutory retirement age on 26 January 1997 after serving the Organization since its inception in Yokohama; he was replaced as Senior Administrative Assistant in Management Services by Mr. Akira Kagaya, who joined the Secretariat on 1 February 1997. Mr. Mamoru Sugiyasu separated from service as Document Clerk in Management Services on 31 March 1997, and was replaced by Mr. Kazuhiro Matsuda on 24 March 1997. Mr. Robert Kenny, Research Assistant, Reforestation and Forest Management, separated from service on 31 July 1997 and Ms. Azusa Miyashita, Secretary, Management Services, on 12 December 1997. Ms. Naho Tamura joined the Organization as Secretary, Office of the Executive Director, on 15 October 1997. The average annual staff complement was twenty-eight, including those seconded from the City of Yokohama, with fifteen different nationalities.

As always, the Secretariat enjoyed the full support of the Government of Japan and the City of Yokohama through the provision of office accommodation, facilities, and equipment. Both Council Sessions benefited from the same sources. The City of Yokohama also funds three General Service staff on secondment to the Organization on a rotating basis.

Annex 4 lists the professional members of staff of the Secretariat at the close of the year.

2. ECONOMIC INFORMATION AND MARKET INTELLIGENCE

2.1 PROJECT ACTIVITIES

The Committee reviewed six project and one pre-project proposals which had been recommended for its consideration by the Thirteenth and Fourteenth Sessions of the Expert Panel for Technical Appraisal of Project Proposals in 1997. These were:

PD 1/95 Rev.4 (M)	Training Development on the Assessment of Sustainable Forest Management in Indonesia
PD 40/96 Rev.3 (M)	The Establishment of a National System for Surveying and Evaluating the Data for Egyptian Annually Imported Timber
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)
PD 29/97 Rev.1 (M)	Development of a Computerized Tracking and Inspection System for Logs and Processed Wood Products in Ghana
PD 52/97 Rev.1 (M) Add.1 + 2	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)
PPD 9/97 Rev.1 (M)	Development and Implementation of the Forestry Statistics Information System (Philippines)

All of these were approved by the Committee, with the exception of PD 40/96 Rev.3 (M), which the Committee recommended be reformulated using funds available under PD 73/89 (M,F,I) "Assistance for Project Identification and Formulation". A reformulated proposal will be considered by the Expert Panel in 1998. Of the remaining six proposals, four (PD 1/95 Rev.4 (M), PD 1/97 Rev.1 (M), PD 3/97 Rev.1 (M) and PPD 9/97 Rev.1 (M)) received funding and were operational or awaiting the signing of agreements by the end of 1997. In addition to these, one activity PP-A/23-63 "Activity to Facilitate Development of a Joint ITTO/ECE-FAO/EUROSTAT Forest Statistics Questionnaire" was approved and funded in 1997.

Also in 1997, the Committee considered eleven projects, one pre-project and one activity that were approved and funded in previous years and which were operational in 1997. 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 (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 46/94 (M,F,I)	Forestry Law Regulation (Bolivia)
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)

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 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)
PD 44/96 Rev.2 (M)	Establishment of a Forest Statistics Information System (Panama)
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
PPA 10/51	Further Update "Timber Certification in Transition: Study on Certification of All Internationally Traded Timber and Timber Products"

Finally, the Committee received a completion report on one pre-project in 1997. This was:

PPD 4/95 Rev.1 (M)	Management and Utilization of the "Paca" (<i>Guadua sarcocarpa</i>) (Peru)
	One approved pre-project was allowed to lapse due to lack of financing under ITTO's sunset provision in 1997. This was:
PPD 6/96 (M,F)	Workshop on Ecological, Social and Political Issues in Certification of Forest Management (Malaysia/Canada)

Details of all projects, pre-projects and activities that were operational, awaiting finance, completed or sunset during 1997 are contained in Appendix 1.

2.2 NON PROJECT ACTIVITIES

i) Market Discussion

The 1997 Market Discussion took place on 22 May 1997 at a joint session of the three Committees during the Twenty-second Session of the Council in Santa Cruz, Bolivia. The theme was "The Expansion of Trade in Tropical Timber Products – Domestically and Abroad with a Special Focus on the Latin American Experience". In addition to presentations from the ITTO Secretariat, there were invited speakers from Bolivia, Brazil, Ecuador, UK and USA.

ii) Annual Review

The 1997 Annual Review and Assessment of the World Timber Situation took place during the Twenty-third Session of the Council in Yokohama in December 1997. Discussions were based on the background document prepared by the Secretariat, "Elements for the Annual Review and Assessment of the World Timber Situation 1997". At the close of discussions, members were given until 31 December 1997 to submit any updates or revisions to the document. The summary of the Annual Review, incorporating all revisions received, is included on pages 7-9 of this report.

2.3 STATISTICAL AND COMPUTER OPERATIONS

The computing resources of the statistical unit are as follows:

Statistician:	COMPAQ DESKPRO 4000
Systems Analyst:	COMPAQ PROLINEA 5100
Statistical Assistant:	COMPAQ DESKPRO 4000

Market Information Service (MIS) Coordinator:
COMPAQ DESKPRO 4000
HP LaserJet 4V
Fuji Xerox Telecopier 750

The statistical unit currently has access to the Internet via a local service provider as well as via CompuServe. This permits electronic retrieval of statistical and other relevant information from major computerized databases worldwide (e.g. FAO-STAT, USDA Foreign Agricultural Service, etc.) as well as providing access to electronic mail and computer software support. Internet access has greatly facilitated the collection and dissemination of statistical information and other related activities carried out by the statistical unit. The statistical unit provides much material for ITTO's homepage, with the on-line Annual Review (23%) and Market Information Service (41%), accounting for about two-thirds of recent hits on the ITTO homepage. E-mail access has also facilitated better contacts and coordination for the monitoring of projects within the division.

3. REFORESTATION AND FOREST MANAGEMENT

3.1 PROJECT ACTIVITIES

The Permanent Committee reviewed 26 project proposals and 11 pre-project proposals which were commended for its consideration by the Thirteenth and Fourteenth sessions of the Expert Panel for Technical Appraisal of Project/Pre-project Proposals in 1997. These were:

Project Proposals:

PD 1/96 Rev.3 (F)	Sustainable Forest Management in the Nargana District, Kuna Yala Indigenous Territory, Panamá (Panamá)
PD 16/96 Rev.4 (F)	<i>Ex situ</i> Conservation of <i>Shorea leprosula</i> , and <i>Lophopetalum multinervium</i> and their Use in Future Breeding and Biotechnology (Indonesia)
PD 26/96 Rev.4 (F)	Studies on the Management Standards of Hill Dipterocarp Forests in Sarawak from a Watershed Management Point of View - Phase II (Malaysia)
PD 30/96 Rev.3 (F)	Project for a 2,500 ha Timber Production Plantation in the Reserved Forest of Haho-Baloe (Plateaux Region - Togo)
PD 36/96 Rev.3 (F)	Selection and Testing of Clonal Hardwoods in Species Rich Systems: Enrichment Planting and Multi-Strata Agroforests (Cameroon)
PD 2/97 Rev.2 (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 8/97 Rev.2 (F)	Implementation and Evaluation of Criteria and Indicators for Sustainable Natural Forest Management (Colombia)
PD 9/97 Rev.1 (F)	Landowner Education and Training for Sustainable Forest Management (Fiji)
PD 10/97 Rev.1 (F)	A Sustainable Management Model in the Iwokrama Rain Forest (Guyana)
PD 12/97 Rev.1 (F)	Forest, Science and Sustainability: The Bulungan Model Forest (Indonesia)
PD 13/97 Rev.1 (F)	Dissemination of New Remote Sensing Methodology through a Semi-Expert System (Regional, Asia and Pacific)
PD 14/97 Rev.1 (F)	Global Mangrove Database and Information System (GLOMIS) - Phase I (Global)
PD 16/97 Rev.2 (F)	Integrated Buffer Zone Development for Sustainable Management of Tropical Forest Resources in Thailand (Thailand)
PD 18/97 Rev.1 (F)	National Forest Inventory & Support for Forest Allocation (Zaire)
PD 21/97 Rev.2 (F)	Developing Tropical Forest Resources through Community-Based Forest Management, Nueva Vizcaya, Philippines (Philippines)
PD 22/97 Rev.1 (F)	Integrated Pilot Management of a Long-term Logging and Management Permit (LMP) with the Cooperation of the Societe Sylvicole de Bayanga, the Local Populations and Local Conservation Organisations (The Central African Republic)
PD 23/97 Rev.1 (F)	Sustainable Forest Management in the Bolsón of Rapirrán, Bolivian Amazon Region (Bolivia)
PD 24/97 Rev.1 (F)	Project for Sustainable Forest Management in Pando (Bolivia)

PD 27/97 Rev.1 (F)	Tree Flora of Sabah and Sarawak - Phase II (Malaysia)
PD 28/97 Rev.1 (F)	Sustainable Management of Industrial Timber Plantations with the Participation of Local Communities in Togo: Strategy and Action Plan (Togo)
PD 31/97 Rev.1 (F)	Management of the Bokoue Forest - Phase II (Gabon)
PD 38/97 Rev.1 (F)	Books and Databank on the Medicinal and Poisonous Plants of South-East Asia: Volume 12(1), Volume 12(2), and Volume 12(3) within the PROSEA Programme (Stage I) (Indonesia)
PD 42/97 Rev.1 (F)	Study of Natural Regeneration and Establishment of Mahogany (<i>Swietenia macrophylla</i> King) Plantations (Bolivia)
PD 45/97 Rev.1 (F)	On-Site Training for Tropical Foresters and Forestry Trainers (Brazil)
PD 57/97 Rev.1 (F)	Establishment of Satellite Remote Sensing Monitoring and Geographic Information System for Tropical Natural Forests in Hainan Province (China)
PD 60/97 Rev.1 (F)	Technology Development for the Production of Lesser Known Tree Species (LKTS) as Alternative Raw Materials for Forest-Based Industries (Philippines)

Pre-project Proposals:

PPD 9/95 Rev.2 (F)	Conservation Forestry: Design of a Community-Based Participatory Training Program for Natural Forest Management (Philippines)
PPD 11/96 Rev.2 (F)	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 (Togo)
PPD 19/96 Rev.1 (F)	Development of an Integrated Strategy for Reduction of Shoot Borer Impact on West African Mahogany Plantations (Ghana)
PPD 1/97 Rev.1 (F)	Evaluation of the Impact of Disturbances and Conservation <i>in situ</i> of the Phytogenic Resources of Cameroon's Closed Forest (Cameroon)
PPD 3/97 Rev.1 (F)	Technical Assistance to Develop a Forest Inventory and Monitoring Program for the Sustainable Management of Bolivia's Forest Resources (Bolivia)
PPD 4/97 Rev.1 (F)	Rehabilitation of Damaged Areas of the "Cerrado" (Brazil)
PPD 5/97 (F)	Sustainable Tropical Forest Management in the North of the Department of La Paz, Bolivia (Bolivia)
PPD 6/97 Rev.1 (F)	Dissemination of the Concepts of ITTO Guidelines and Criteria Sustainable Forest Management in Production Forest (Myanmar)
PPD 7/97 Rev.1 (F)	Forest Inventory for the Sustainable Production of Mahogany Timber (Brazil)
PPD 10/97 Rev.1 (F,I)	Establishment of Tropical Timber Research Directorate and Manpower Development in Tropical Forest Management (Nepal)
PPD 11/97 (F)	Assessment of the Forestry Sector (Liberia)

1 pre-project was referred back by the Committee to the submitting agencies for further revision, and for re-submission to the Committee in 1998 (PPD 10/97 Rev.1 (F,I)).

All other project and pre-project proposals appraised by the Committee were commended to the Council for immediate implementation as soon as funds for the projects were made available in the Special Account.

The Committee received reports on 11 completed projects and 5 completed pre-projects as follows:

Completed Projects:

A. Completed Projects, Including Financial Audit

PD 176/91 Rev.1 (F)	Sustained Management for Production, Conservation, Demonstration, Diffusion and Promotion Activities in Moist Tropical Forests in Ecuador's Northwest (Ecuador)
PD 37/92 Rev.1 (F)	Preliminary Studies and Preparation of a Management Plan for the Bokoue Forest (Gabon)
PD 25/93 Rev.1 (F)	Evaluation of the Progress Made by Ecuador Towards Achievement of ITTO Target 2000 (Ecuador)
PD 32/93 Rev.2 (F)	Rehabilitation of Logged-Over Forests in Asia/Pacific Region (Sub-Project III) (Regional)

B. Completed Projects, Pending Financial Audit

PD 104/90 Rev.2 (F)	Studies on the Management Standards of Hill Dipterocarp Forests in Sarawak from a Watershed Management Point of View - Phase I (Malaysia)
PD 105/90 Rev.1 (F)	Model Forest Management Area, Phase I (Malaysia)
PD 120/91 Rev.4 (F,I)	Development of Operational Models for Sustainable Management of Natural Tropical Forests (Malaysia)
PD 186/91 Rev.2 (F)	Tree Flora of Sabah and Sarawak (Phase I) (Malaysia)
PD 9/92 Rev.1 (F)	Forest Management in Islas de la Bahia, Honduras, Central America (Honduras)
PD 11/92 Rev.1 (F)	Development and Dissemination of Re-afforestation Techniques of Mangrove Forests (Global)
PD 6/93 Rev.2 (F)	Manual and a World Natural Mangrove Atlas for Mangrove Ecosystem Restoration (Global)

Completed Pre-projects:

PP-F/08-19	Realistic Strategies for the Biological Diversity in Tropical Moist Forest (Global)
PPD 3/92 Rev.1 (F)	Integrated Forest Project for the Production of Seedlings in Pará State - Feasibility Study (Brazil)
PPD 6/93 Rev.1 (F)	The Development of Guidelines for the Protection of Tropical Forests Against Fire (Global)
PPD 11/93 Rev.2 (F)	Evaluation and Diagnosis of Current Forest Harvesting Licensing, Concession and Control Systems within a Framework of Sustainable Forest Resource Management (Colombia)
PPD 14/95 Rev.3 (F)	Identification and Planning of Measures for the Sustainable Management of Teak Plantations in Togo (Togo)

3.2 NON-PROJECT ACTIVITIES

Although 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, the staff of the division has participated in a few other activities, including the following:

ITTO was represented in the Tenth Conference of the Parties to CITES in Harare, Zimbabwe from 9-20 June 1997. Two issues were of particular importance for ITTO: (i) the consideration of the work of the Timber Working Group, and (ii) the consideration of the proposal jointly submitted by the Governments of USA and Bolivia to list *Swietenia macrophylla* in Annex II of CITES. With regard to the first point, the work of the TWG was very much appreciated and a decision was made to continue its operation with a revised mandate. With regard to the second point, the proposal did not receive enough support, and rather, it was decided that a working group should be established for a further assessment of the management of mahogany forests at a regional level and to report the outcome during the next meeting of CITES.

4. FOREST INDUSTRY

4.1 PROJECT WORK

In 1997 six project proposals were submitted by member governments for consideration and appraisal by the Committee on Forest Industry:

PD 15/97 Rev.1 (I)	Strategic Plan for the Upgrading of the Industrial Forestry Infrastructure of Panama (Panama)
PD 33/97 Rev.1 (I)	Identification and Nomenclature of Commercial Tropical Timber Species in the Andean Community - Phase II (Peru)
PD 58/97 Rev.1 (I)	The Establishment of the Database of Tropical Industrial Lesser Used Wood Species (Japan)
PD 7/94 Rev.2 (M,I)	Information and Technical Assistance for Production and Trade on Tropical Timber (Brazil)
PD 46/96 Rev.2 (I)	Establishment of a Wood Workers and Craftsmanship Village (Ghana)
PD 7/97 Rev.1 (I)	III Plywood and Tropical Timber International Congress (Brazil)

After a thorough evaluation, the Committee recommended to Council the approval of all six project proposals. Two were recommended as submitted [PD 58/97 Rev.1 (I) and PD 46/96 Rev.2 (I)] and the remaining four were further revised by the Committee [PD 15/97 Rev.2 (I), PD 33/97 Rev.2 (I), PD 7/94 Rev. 3 (M,I), and PD 7/97 Rev.2 (I)]. The Council approved for implementation the six project proposals recommended by the Committee.

Three of the approved projects are technical assistance projects focussing on development of further processing capability in selected producing countries. An additional project was designed to convene an international conference on tropical timber and plywood, while the remaining two projects were formulated to further advance work on lesser used species databases and market promotion.

The Committee also reviewed the status and scope of work of forty-four approved projects and pre-projects, six of which were completed during 1997. 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 projects. The Committee called for ex-post evaluation of five projects:

- | | | |
|----|---------------------|---|
| 1. | PD 4/87 Rev.1 (I) | Training in Planning and Management of Forest Industries in Developing Countries (Finland) |
| 2. | PD 63/89 Rev.1 (I) | Low-Cost Houses from Small Diameter Trees, Plantation Thinnings, Tree Tops and Branches (Philippines) |
| 3. | PD 37/87 Rev.3 (I) | Industrial Use of New Forest Species in Peru - Phase I and II (Peru) |
| 4. | PD 108/90 Rev.1 (I) | Forest Industry Development Studies (Papua New Guinea) |
| 5. | PD 152/91 Rev.1 (I) | Harmonization of Technical Tropical Timber Standards in the Andean Sub-Region (Peru) |

The evaluation work on PD 4/87 Rev.1 (I) was completed in 1997, while the work on the remaining four is planned for 1998.

The ex-post evaluation of PD 4/87 Rev.1 (I) provided the necessary information to better assess the project's contribution to improve the performance of forest industries in producer countries, and to a better

understanding of their socio-economic and ecological impacts. The ex-post evaluation results confirmed the initial Committee assessment on project completion, which led to the conclusion that the project achieved its objectives, with the exception of building-up the capability of selected local institutions to continue to offer training courses meeting forest industry needs. Follow-up measures to address this shortcoming had already been taken by the approval of a Committee recommended follow-up project [PD 13/95 Rev.3 (I)].

The results of the evaluation of PD 4/87 Rev.1 (I) are contained in document CFI(XXI)/4, which is available upon request to the ITTO secretariat.

4.2 FOREST INDUSTRY GUIDELINES

In its review of the pre-project work related to the preparation of guidelines for the development of sustainable forest industries [PPD 11/92 (I)], the Committee considered the document CFI(XXI)/7 prepared by a Working Group. The Working Group met in Yokohama from 6 to 9 October 1997, under the Chairmanship of Mr. Franklin Moore (U.S.A.) and prepared draft Guidelines taking into account the Committee decision to focus on policies and measurements to promote increased and further processing of tropical timber from sustainable sources in producer member countries.

The work on Guidelines will be concluded by a specialized consultancy company, which will prepare a final pre-project report reflecting its expertise on appropriate policies and actions to promote domestic further processing of tropical timber, taking into account the documents prepared throughout the Committee work on this issue. This document will be considered in the spring 1998 Committee Session.

ANNEXES

ANNEX 1

SUMMARY OF PROJECTS, PRE-PROJECTS, AND ACTIVITIES

PROJECT: PD167/91 Rev.1 (M)

TITLE : DIAGNOSIS AND EVALUATION OF THE BRAZILIAN FORESTRY SECTOR

SESSION APPROVED : XI

SESSION FUNDED : XII

STATUS : OPERATIONAL

COUNTRY : BRAZIL

AGENCY : FUNATURA

ITTO BUDGET(US\$) : 1,743,000.00

STARTING YEAR : 1992

DESCRIPTION :

The objectives of this project are 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 report will be presented to ITTO in 1998.

PROJECT: PD016/93 Rev.4 (M)

TITLE : MARKET INFORMATION SERVICE FOR TROPICAL TIMBER AND TIMBER PRODUCTS

SESSION APPROVED : XXIII

SESSION FUNDED : XXIII

STATUS : OPERATIONAL

COUNTRY : GLOBAL

AGENCY : ITTO

ITTO BUDGET(US\$) : 322,200.00

STARTING YEAR : 1997

DESCRIPTION :

This project is a continuation of the first four years (Phases I-IV). It is 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.

It is expected that the MIS will continue to be funded on a year by year base as a continuation of PD 16/93 Rev.4 (M) in this manner.

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

TITLE : MARKET INFORMATION SERVICE FOR TROPICAL TIMBER AND TIMBER PRODUCTS

SESSION APPROVED : XV

SESSION FUNDED : XXI

STATUS : COMPLETED

COUNTRY : GLOBAL

AGENCY : ITTO

ITTO BUDGET(US\$) : 365,558.00

STARTING YEAR : 1997

DESCRIPTION :

This four year project, a follow-up of PD 173/91 Rev.1 (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.

Phase IV was completed in December 1997. The Committee at its Twenty-first Session in December 1997 approved additional funding for 1998 to allow ITTO to continue to produce and distribute the bi-weekly MIS report from Yokohama (see PD 16/93 Rev.4 (M)).

PROJECT: PD005/94 Rev.3 (M)

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

SESSION APPROVED : XVI

SESSION FUNDED : XVI

STATUS : OPERATIONAL

COUNTRY : GHANA

AGENCY : FORESTRY COMMISSION OF GHANA

ITTO BUDGET(US\$) : 242,650.00

STARTING YEAR : 1995

DESCRIPTION :

The objective of this two year project is 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 are to:

- i) Establishment of 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.

The final report will be presented to ITTO in 1998.

PROJECT: PD034/94 Rev.1 (M)

TITLE : ESTABLISHMENT AND IMPLEMENTATION OF A FOREST STATISTICAL INFORMATION SYSTEM

SESSION APPROVED : XVI
SESSION FUNDED : XVII
STATUS : OPERATIONAL
COUNTRY : COLOMBIA
AGENCY : 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.

The next steering committee meeting is due in June/July 1998.

PROJECT: PD035/94 Rev.3 (M,I)

TITLE : FOREST PRODUCTS MARKETING ORGANIZATION FEASIBILITY STUDY

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

DESCRIPTION :

This project is a feasibility study for the establishment of a Wood Products Marketing Organization. The specific objectives are to assess the conceptual, institutional, technical and financial feasibility of establishing an industry-supported marketing association. The marketing association will include both timber harvesting and wood processing enterprises and would facilitate the penetration of Papua New Guinea's wood products into foreign markets and address domestic infrastructure requirements.

The main objectives of this Wood Products Marketing Organization would be 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 final report will be presented to ITTO in 1998.

PROJECT: PD046/94 Rev.1 (M,F,I)

TITLE : FORESTRY LAW REGULATION

SESSION APPROVED : XVII
SESSION FUNDED : XX
STATUS : OPERATIONAL
COUNTRY : BOLIVIA

DESCRIPTION :

The main objective of this project is to draft the regulations of Bolivia's new Forestry Law, a legal instrument that will ensure the standardization and regulation of all forest sector activities on the basis of the sound and sustainable management of forests in the country.

AGENCY : MIN. OF AGRICULTURE,
LIVESTOCK AND RURAL
DEVELOPMENT

ITTO BUDGET(US\$) : 116,050.00

STARTING YEAR : 1996

Funds were made available by Japan to implement the project in August 1996. The agreement between ITTO and the Ministry of Sustainable Development and Environment was signed in early October 1996. The first installment of funds was released on 30 October 1996. It may be noted, however, that work on this project had already begun especially as discussions on this took place between the Government and the ITTO Mission to Bolivia.

The Government of Bolivia has established a new Ministry of Agriculture, Livestock and Rural Development. This project has been transferred to the new ministry for implementation from the old Ministry of Sustainable Development.

A final report will be submitted to ITTO in 1998.

PROJECT: PD001/95 Rev.4 (M)

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

SESSION APPROVED : XXII

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : INDONESIA

AGENCY : INDONESIAN
ECOLABELLING WORKING
GROUP

ITTO BUDGET(US\$) : 672,774.00

STARTING YEAR : 1997

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.

An initial steering committee meeting will be held after signature of the project agreement in early 1998.

PROJECT: PD025/95 Rev.1 (M)

TITLE : TRAINING WORKSHOPS ON TROPICAL FORESTRY AND TIMBER TRADE
STATISTICS

SESSION APPROVED : XX

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : GLOBAL

AGENCY : ITTO

ITTO BUDGET(US\$) : 1,013,960.00

STARTING YEAR : 1997

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 that meet the needs of member countries of the ITTO and thus contribute to a rational and profitable trade in tropical forest products. Moreover, 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. The project also will ensure continuation of ITTO's program of training in this sector. Given the large numbers of prospective beneficiaries, the project will involve 6 regional workshops over a period of two years, two each in the producing regions of Africa (French), Asia-Pacific (English) and Latin America/Caribbean (Spanish). It is expected that a total of approximately 125 participants from the three regions will attend these workshops to improve their skills related to the collection, analysis and reporting of forestry and timber trade statistics. On return home, they will be expected to contribute to enhancing the statistical capabilities of their respective institutions. This project will be implemented in light of the evaluation undertaken in 1996 of the workshops since their inception, and which resulted in a revamped course of instruction and organisation.

Two workshops (Asia and Latin America) were completed in 1997, with two (African and Asia) scheduled for 1998.

PROJECT: PD025/96 Rev.2 (M)

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

SESSION APPROVED : XXI

SESSION FUNDED : XXI

STATUS : OPERATIONAL

COUNTRY : CHINA

AGENCY : CHINESE ACADEMY OF
FORESTRY

ITTO BUDGET(US\$) : 177,915.00

STARTING YEAR : 1997

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 PD23/96 (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.

A project monitoring mission is scheduled for early 1998.

PROJECT: PD027/95 Rev.3 (M) I

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

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : PERU

AGENCY : INRENA

ITTO BUDGET(US\$) : 674,274.00

STARTING YEAR : 1996

The objective of this project is the establishment and operation of a Forest Strategic Information Center (Centro de Información Forestal (CIEF), as the basis for the sustainable development of tropical forests in the country. It is designed 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. The productivity of the sector will thus be increased, investments will be encouraged and sectoral revenues will increase, leading to re-investments for the development of industrial plantations, sustainable tropical forest management, and research and technology transfer. In addition, CIEF will publish and disseminate timely and reliable information on the forest sector at the national and international levels.

A final report on Phase I of the project will be submitted to ITTO in 1998.

PROJECT: PD029/96 Rev.1 (M)

TITLE : REINFORCEMENT OF THE NATIONAL SYSTEM FOR THE COLLECTION
AND PROCESSING OF FOREST STATISTICS AND SUPPORT FOR THE
TRAINING OF FIELD UNITS

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XXI

STATUS : OPERATIONAL

COUNTRY : GABON

AGENCY : GENERAL ADMINISTRATION
OF WATER AND FORESTS

ITTO BUDGET(US\$) : 231,045.00

STARTING YEAR : 1997

This project is a follow-up to a previous ITTO project in Gabon, PD 36/92 (M) "Collection and Computer Processing of Forest Statistics with a View to Improving the Management of Forest Resources of Gabon". The project intends to address several problems which were identified during the implementation of PD 36/92 (M), notable among which is the manual collection and processing of data at the local and regional level. These problems led to delays in the collection and production of national statistics, thereby reducing their usefulness. The project proposes to establish a central system for computerized data collection and processing, equip regional offices with computers and to train some 10 staff members.

A project monitoring mission is scheduled for early 1998.

PROJECT: PD044/96 Rev.2 (M)

TITLE : ESTABLISHMENT OF A FOREST STATISTICS INFORMATION SYSTEM

SESSION APPROVED : XXI

DESCRIPTION :

SESSION FUNDED : XXI

STATUS : OPERATIONAL

COUNTRY : PANAMA

AGENCY : INRENARE

ITTO BUDGET(US\$) : 232,100.00

STARTING YEAR : 1997

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;
- 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 project monitoring mission is scheduled for early 1998.

PROJECT: PD001/97 Rev.1 (M)

TITLE : IMPLEMENTATION OF A NATIONAL FOREST STATISTICAL INFORMATION
SYSTEM

SESSION APPROVED : XXII

DESCRIPTION :

SESSION FUNDED : XXII

STATUS : OPERATIONAL

COUNTRY : BOLIVIA

This 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

AGENCY : MIN. OF AGRICULTURE,
LIVESTOCK AND RURAL
DEVELOPMENT
ITTO BUDGET(US\$): 825,265.00
STARTING YEAR : 1997

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".

An initial steering committee meeting is scheduled for January 1998.

PROJECT: PD003/97 Rev.1 (M)

TITLE : DEVELOPMENT OF AN EXPORT MARKET INTELLIGENCE MONITORING SYSTEM

SESSION APPROVED : XXII

SESSION FUNDED : XXII

STATUS : OPERATIONAL

COUNTRY : FIJI

AGENCY : FORESTRY DEPARTMENT

ITTO BUDGET(US\$): 122,300.00

STARTING YEAR : 1997

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.

A project monitoring mission is scheduled for mid-1998.

PROJECT: PD029/97 Rev.1 (M)

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

SESSION APPROVED : XXIII

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : GHANA

AGENCY : FORES PRODUCTS
INSPECTION BUREAU

ITTO BUDGET(US\$): 1,452,700.00

STARTING YEAR :

DESCRIPTION :

The project seeks to provide a new management information system which will provide a reliable, and timely information on logging and processing activities through the implementation of a high level of control and monitoring/tracking system. Consequently this project will establish methodologies to standardize information gathering and coordinate operations between the Forest Products Inspection Bureau and the Forestry Department and provide a rapid and regular information dissemination between the two institutions.

PROJECT: PD052/97 Rev.1 (M)

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

SESSION APPROVED : XXIII

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : GHANA

AGENCY : IHPA

ITTO BUDGET(US\$): 241,924.00

STARTING YEAR :

DESCRIPTION :

Research has shown that a significant number of industry wholesalers and retailers believe that purchasing products containing tropical woods may be environmentally unsound. The study also shows that certification of tropical woods has little impact on these industry buyers and specifiers.

IHPA (International Wood Products Association) will undertake a literature development and distribution program to teach that buying tropical timber products can in fact improve tropical forest management. Giving value to tropical wood can lead to better management of tropical forests as a commodity to be tended and nurtured, rather than an obstacle to be removed. 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. 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.

PRE-PROJECT: PPD004/95 Rev.1 (M)

TITLE : MANAGEMENT AND UTILIZATION OF THE "PACA" (GUADUA SARCOCARPA)

SESSION APPROVED : XVIII

DESCRIPTION :

SESSION FUNDED : XVIII

STATUS : COMPLETED

COUNTRY : PERU

AGENCY : INRENA

ITTO BUDGET(US\$) : 40,100.00

STARTING YEAR : 1995

This pre-project proposes to study the possibility of promoting and developing among the native communities of the southeastern region of Peru the utilization of Guadua sarcocarpa - a bamboo that is the predominant species in that region. Currently this species is considered a hindrance by the local population and is burnt by them in their effort to establish new agricultural land. INRENA, however, considers that the "Paca", due to its similarity to bamboo, can be economically utilized for a variety of purposes just as bamboos have been used in Asia.

The main objective of the pre-project is to formulate a project proposal, jointly with experts from ITTO member countries where such bamboo-utilizing techniques have been developed, in order to promote the utilization of Guadua sarcocarpa in Peru. The final report of this pre-project (including a project proposal) was submitted to ITTO in 1997.

PRE-PROJECT: PPD013/95 Rev.1 (M)

TITLE : CREATION OF A STRUCTURE FOR RESEARCH, COLLECTION AND PUBLICATION OF ECONOMIC INFORMATION WITH THE VIEW TO ESTABLISH A SUSTAINABLE DATABASE ON THE MARKETING OF TIMBER IN CAMEROON

SESSION APPROVED : XIX

SESSION FUNDED : XIX

STATUS : OPERATIONAL

COUNTRY : CAMEROON

AGENCY : ONADEF

ITTO BUDGET(US\$) : 39,350.00

STARTING YEAR : 1996

DESCRIPTION :

The pre-project aims to establish a structure for research and collection of reliable and up-to-date information for the benefit of ITTO on the one hand and, on the other hand, for the benefit of small and medium sized forest industries and the public authorities in Cameroon, through the permanent availability of prices, statistics and information on the timber market.

The pre-project will help to set up the necessary mechanisms to guard against undercharging for exported forest products and also help in organizing the national market for those products. The above actions are those advocated by Cameroon's new Forest Law (June 1993) as regards organizing the marketing of semi-finished and finished products of the industrial timber sub-sector.

The final report will be submitted in 1998.

PRE-PROJECT: PPD009/97 Rev.1 (M)

TITLE : DEVELOPMENT AND IMPLEMENTATION OF THE FORESTRY STATISTICS INFORMATION SYSTEM

SESSION APPROVED : XXIII

DESCRIPTION :

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : PHILIPPINES

AGENCY : FOREST MANAGEMENT BUREAU

ITTO BUDGET(US\$) : 63,200.00

STARTING YEAR :

This pre-project is designed to:

- 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.

ACTIVITY: PP-A/20-51 (M)

TITLE : FURTHER UPDATE OF "TIMBER CERTIFICATION IN TRANSITION: STUDY ON CERTIFICATION OF ALL INTERNATIONALLY TRADED TIMBER AND TIMBER PRODUCTS"

SESSION APPROVED : XX

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : GLOBAL

AGENCY : ITTO

ITTO BUDGET(US\$) : 116,410.00

STARTING YEAR : 1996

DESCRIPTION :

The two consultants who prepared the two previous studies have been retained to continue with the work of updating the study. Their Terms of Reference are as follows:

- i) Update further the document entitled: "Timber Certification in Transition: Study on Developments in the Formulation and Implementation of Certification Schemes for All Internationally Traded Timber and Timber Products";
- ii) Review relevant new or evolving developments regarding any schemes and initiatives related to the formulation and implementation of certification and labelling of all timber and timber products, including their cost implications;
- iii) Discuss any other issues considered relevant to the certification and labelling of all timber and timber products, in particular, the strategies for attaining ITTO's Year 2000 Objective as entrenched in the ITTA, 1994 and the state of discussions within the Open-Ended Inter-governmental Panel on Forests (IPF) of the U.N. Commission on Sustainable Development;
- iv) Undertake consultations by correspondence with government authorities, relevant international and other organizations to obtain all necessary data and information;
- v) Undertake travel to meet, as necessary, to discuss and finalize the report based on an approved itinerary;
- vi) Present the report at the Twenty-third Session of the ITTC to be held in Yokohama and based on the discussion, review the report as necessary.

ACTIVITY: PP-A/23-63 (M)

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

SESSION APPROVED : XXIII

SESSION FUNDED : XXIII

STATUS : OPERATIONAL

COUNTRY : GLOBAL

AGENCY : ITTO

ITTO BUDGET(US\$) : 49,725.00

STARTING YEAR : 1997

DESCRIPTION :

The activity provides a mechanism for achieving the following part of Decision 8(XXI) by convening a small working group to draft recommendations for a joint questionnaire:

"Continue ITTO's participation in the Inter-Secretariat Working Group on Forest Statistics (IWG) and activity pursue a joint questionnaire with the U.N. Economic Commission for Europe (ECE) and the Food and Agriculture Organization of the United Nations (FAO) through the IWG"

The proposed activities are to:

- i) Convene a 3-day working group of 6 experts from ITTO, ECE, FAO, EURO-STAT and representatives from one producer and one consumer member country of ITTO before the Twenty-fourth Council session;
- ii) Examine the issues related to development of a joint questionnaire, including countries to be included, content, layout and logistical aspects such as timing, contact points, etc.;
- iii) Prepare a report for the next session of the CEM, including recommendations to Council and a draft joint questionnaire to be considered for use in 1998; and
- iv) Follow-up and evaluate of the joint questionnaire through the IWG.

PROJECT: PD052/89 Rev.4 (F)

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

SESSION APPROVED : XII
SESSION FUNDED : XII
STATUS : OPERATIONAL
COUNTRY : CAMEROON
AGENCY : ONADEF
ITTO BUDGET(US\$) : 1,225,245.00
STARTING YEAR : 1992

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: PD068/89 Rev.1 (F)

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

SESSION APPROVED : VII
SESSION FUNDED : VII
STATUS : OPERATIONAL
COUNTRY : BRAZIL
AGENCY : IBAMA
ITTO BUDGET(US\$) : 1,513,146.00
STARTING YEAR : 1992

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 Natural 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.

PROJECT: PD074/90 Rev.1 (F)

TITLE : BETTER UTILIZATION OF TROPICAL TIMBER RESOURCES IN ORDER TO IMPROVE SUSTAINABILITY AND REDUCE NEGATIVE ECOLOGICAL IMPACTS

SESSION APPROVED : VIII
SESSION FUNDED : VIII
STATUS : OPERATIONAL
COUNTRY : GERMANY (GLOBAL)
AGENCY : FEDERAL RESEARCH CENTRE FOR FORESTRY AND FOREST PRODUCT
ITTO BUDGET(US\$) : 600,000.00
STARTING YEAR : 1992

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: PD077/90 (F)

TITLE : ESTABLISHMENT OF A PILOT AREA FOR SILVICULTURE IN CLOSED FORESTS IN CONGO

SESSION APPROVED : VIII
SESSION FUNDED : IX
STATUS : OPERATIONAL
COUNTRY : CONGO
AGENCY : CENTRE PILOTE D'AFFORESTATION EN LIMBA (CPAL)
ITTO BUDGET(US\$) : 529,000.00
STARTING YEAR : 1991

DESCRIPTION :

The project will establish a pilot area of approximately 4,000 ha where silvicultural systems will be tested and monitored in order to develop a technically and economically efficient system which can be applied first hand in an 800,000 ha forest area which had been inventoried and for which a management plan is being developed. Silvicultural systems will be applied to sample plots. The growth in these plots of economic species and other vegetation, will be measured periodically and all costs of treatment will be monitored. Besides assessing the benefits and costs of silvicultural systems, the aim is to train staff and forest workers in applied silviculture. The project is to be executed over a five year period.

PROJECT:	PD089/90 (F) I	TITLE : SUSTAINABLE FOREST MANAGEMENT AND HUMAN RESOURCES DEVELOPMENT IN INDONESIA - PHASE I
SESSION APPROVED :	VIII	DESCRIPTION :
SESSION FUNDED :	VIII	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.
STATUS :	OPERATIONAL	
COUNTRY :	INDONESIA	
AGENCY :	MINISTRY OF FORESTRY, INDONESIA	
ITTO BUDGET(US\$) :	3,800,000.00	
STARTING YEAR :	1991	
PROJECT:	PD089/90 (F) II	TITLE : SUSTAINABLE FOREST MANAGEMENT AND HUMAN RESOURCES DEVELOPMENT IN INDONESIA - PHASE II
SESSION APPROVED :	VIII	DESCRIPTION :
SESSION FUNDED :	XXI	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.
STATUS :	OPERATIONAL	
COUNTRY :	INDONESIA	
AGENCY :	MINISTRY OF FORESTRY, INDONESIA	
ITTO BUDGET(US\$) :	1,795,610.00	
STARTING YEAR :	1997	
PROJECT:	PD095/90 (F) III	TITLE : FOREST MANAGEMENT IN THE ALEXANDER VON HUMBOLDT NATIONAL FOREST, PHASE III
SESSION APPROVED :	IX	DESCRIPTION :
SESSION FUNDED :	XIX	The project will develop a management plan for the Alexander von Humboldt National Forest (105, 000 ha) to be used as a research area and demonstration model for management of Peru's forest resources. The plan will aim at achieving a sustained flow of raw material to wood industries, preservation of genetic resources, better utilization of the forest resources and support to the socio-economic development of the rural and native communities in the area. An applied research program will be an important feature of the project.
STATUS :	OPERATIONAL	The project is planned to be implemented in three successive phases. Phase I is dominated by overall planning of forest utilization and infrastructure, and detailed planning of a first felling area. In phase II, the utilization will be initiated and a research plan will be developed. In phase III, the full scale implementation of management and research plans will start. Each phase is estimated to last one year and the cost of each phase is approximately equal.
COUNTRY :	PERU	
AGENCY :	INRENA	
ITTO BUDGET(US\$) :	529,610.00	
STARTING YEAR :	1996	
PROJECT:	PD099/90 Rev.1 (F)	TITLE : ESTABLISHMENT OF RIO PRETO NATIONAL FOREST
SESSION APPROVED :	IX	DESCRIPTION :
SESSION FUNDED :	IX	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.
STATUS :	OPERATIONAL	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.
COUNTRY :	BRAZIL	
AGENCY :	IBAMA	
ITTO BUDGET(US\$) :	469,000.00	
STARTING YEAR :	1991	

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)

TITLE : TRAINING AND MANPOWER DEVELOPMENT IN COMMUNITY FORESTRY MANAGEMENT

SESSION APPROVED : IX

DESCRIPTION :

SESSION FUNDED : IX

STATUS : OPERATIONAL

COUNTRY : NEPAL

AGENCY : INSTITUTE OF FORESTRY,
TRIBHUVAN UNIVERSITY,
NEPAL

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.

ITTO BUDGET(US\$) : 1,203,000.00

STARTING YEAR : 1992

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 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 liason 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.

PROJECT: PD104/90 Rev.2 (F)

TITLE : STUDIES OF THE MANAGEMENT STANDARDS OF HILL DIPTEROCARP FORESTS IN SARAWAK FROM A WATERSHED MANAGEMENT POINT-OF-VIEW

SESSION APPROVED : IX

DESCRIPTION :

SESSION FUNDED : IX

STATUS : COMPLETED

COUNTRY : MALAYSIA

AGENCY : FOREST DEPT., STATE GOVT.
OF SARAWAK

The project identified catchment areas in which hill dipterocarp forests are produced in a sustainable manner and in which the water conservation properties are well protected. It will further isolate and analyze the technical and managerial parameters which are involved in the development of the areas and determine which parameters are the main contributors in making the areas successful in timber production and watershed protection. A technical guidelines on forest road construction has been developed.

ITTO BUDGET(US\$) : 412,900.00

STARTING YEAR : 1993

The results of the analysis will be applied to other catchments in order to bring them under rational management and to restore those which have been disturbed.

PROJECT: PD105/90 Rev.1 (F)

TITLE : MODEL FOREST MANAGEMENT AREA - PHASE I

SESSION APPROVED : IX

DESCRIPTION :

SESSION FUNDED : IX

STATUS : COMPLETED

COUNTRY : MALAYSIA

AGENCY : THE SARAWAK FOREST
DEPARTMENT

The project selected and developed a demonstration area of the permanent forest estate of Sarawak into a Model Forest Management Area (MFMA) to be used for training, demonstration and research in the sustainable utilization of Mixed Hill Dipterocarp Forests. Special emphasis will be given to watershed management and protection of water catchment values.

ITTO BUDGET(US\$) : 1,760,176.00

STARTING YEAR : 1991

The training aspect of the project aims at providing Forest Department staff practical training on planning, management and control of forest operations. The research component will focus on three broad subject areas: forest harvesting methods and forest transportation technologies; regeneration of harvested hilly areas, and determination of appropriate silvicultural techniques to facilitate forest recovery after harvesting; and sociological studies of the impact of harvesting on nearby communities. Alternative method of logging using helicopter has been tested and analysed. The demonstration aspects aim at providing opportunities for various interested parties to observe the realities of sustainable forest management. The overall aim is to set up a center of excellence for tropical forest management and harvesting for sustainable development of tropical forests.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

PROJECT:	PD106/90 Rev.1 (F)	TITLE : DEVELOPMENT OF THE LANJAK ENTIMAU WILDLIFE SANCTUARY AS A TOTALLY PROTECTED AREA - PHASE I
SESSION APPROVED :	IX	DESCRIPTION :
SESSION FUNDED :	IX	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.
STATUS :	OPERATIONAL	
COUNTRY :	MALAYSIA	
AGENCY :	THE SARAWAK FOREST DEPARTMENT	
ITTO BUDGET(US\$) :	1,750,837.00	
STARTING YEAR :	1991	
		Under expanded activities of the project, a joint Expedition - Indonesia & Malaysia - to explore the biodiversity resources has been conducted (ITTO Borneo Biodiversity Expedition 1997).
PROJECT:	PD115/90 Rev.1 (F)	TITLE : REHABILITATION OF NATURAL FORESTS
SESSION APPROVED :	IX	DESCRIPTION :
SESSION FUNDED :	IX	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.
STATUS :	OPERATIONAL	
COUNTRY :	MALAYSIA	
AGENCY :	FORESTRY DEPARTMENT HEADQUARTERS, PENINSULAR MALAYSIA	
ITTO BUDGET(US\$) :	550,797.00	
STARTING YEAR :	1991	
		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.
PROJECT:	PD120/91 Rev.4 (F,I)	TITLE : DEVELOPMENT OF AN OPERATIONAL MODEL FOR SUSTAINABLE MANAGEMENT OF NATURAL TROPICAL FORESTS
SESSION APPROVED :	XII	DESCRIPTION :
SESSION FUNDED :	XII	The development objective of the project is to optimize the contribution of forestry to state development through sustained development of forest land use and management, as well as forest based industrialization.
STATUS :	COMPLETED	
COUNTRY :	MALAYSIA	
AGENCY :	STATE DEPARTMENT OF FORESTRY, SABAH	
ITTO BUDGET(US\$) :	464,161.00	
STARTING YEAR :	1993	
		The project has assisted achieving this objective by: 1. Complementing existing FAO/UNDP and Malaysia-German forestry projects in Sabah to develop both model management areas and the human resources necessary for sustainable forest management; and 2. Providing operational training for local foresters and counterparts on a model management area. A comprehensive management plan has been resulted from the project and adopted by the Forestry Department of Sabah State.
PROJECT:	PD128/91 Rev.2 (F)	TITLE : MANAGEMENT, CONSERVATION, AND DEVELOPMENT OF MANGROVE FORESTS IN PANAMA
SESSION APPROVED :	X	DESCRIPTION :
SESSION FUNDED :	X	The development objectives of the project are to achieve optimal sustained utilization of the mangrove resources of Panama without causing adverse effects on the ecosystem; improve conditions of the rural communities on the mangrove forests; improve the efficiency in exploitation and utilization of the mangroves; develop suitable areas for recreation, sanctuaries, and research; and maintain or increase breeding and harvesting of fish, mollusks, and crustaceans dependent on the mangrove ecosystems.
STATUS :	OPERATIONAL	
COUNTRY :	PANAMA	
AGENCY :	INSTITUTE FOR RENEWABLE NATURAL RESOURCES (INRENARE)	
ITTO BUDGET(US\$) :	489,000.00	
STARTING YEAR :	1992	

<p>PROJECT: PD130/91 Rev.2 (F)</p> <p>SESSION APPROVED : X</p> <p>SESSION FUNDED : X</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : PHILIPPINES</p> <p>AGENCY : DENR</p> <p>ITTO BUDGET(US\$): 780,000.00</p> <p>STARTING YEAR : 1993</p>	<p>TITLE : PLANTATION ESTABLISHMENT METHODS - PHASE I</p> <p>DESCRIPTION :</p> <p>The project has stated aims of developing and testing methodologies for plantation establishment which employ: a) intensive soil preparation, b) application of fertilizers, and c) alternative technologies replacing fertilizers.</p> <p>One output of the project is series of research plots, located in Nueva Viscaya, Philippines, in which the long term effect of the soil amendments during land preparation in plantation using local species, can be monitored and evaluated. Additional outputs include descriptions and recommendations regarding the conditions where the appropriate application methods of plantation can promote better performance in growth and yield.</p>
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<p>PROJECT: PD131/91 Rev.2 (F)</p> <p>SESSION APPROVED : X</p> <p>SESSION FUNDED : X</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : CAMEROON</p> <p>AGENCY : OFFICE NATIONAL DE DEVELOPEMENT DES FORETS (ONADEF)</p> <p>ITTO BUDGET(US\$): 534,000.00</p> <p>STARTING YEAR : 1991</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. 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>
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<p>PROJECT: PD162/91 Rev.1 (F)</p> <p>SESSION APPROVED : X</p> <p>SESSION FUNDED : X</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : PAPUA NEW GUINEA</p> <p>AGENCY : FOREST RESEARCH INSTITUTE</p> <p>ITTO BUDGET(US\$): 1,628,000.00</p> <p>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 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>
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<p>PROJECT: PD171/91 Rev.2 (F) I</p> <p>SESSION APPROVED : XI</p> <p>SESSION FUNDED : XIV</p> <p>STATUS : COMPLETED</p>	<p>TITLE : CONSERVATION AND MANAGEMENT FOR MULTIPLE USE AND DEVELOPMENT OF COLOMBIAN MANGROVE SWAMPS - PHASE I</p> <p>DESCRIPTION :</p> <p>Mangrove forests still have quite extensive distributions in Colombia but many areas are under</p>
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COUNTRY : COLOMBIA
AGENCY : MINISTRY OF THE ENVIRONMENT
ITTO BUDGET(US\$) : 905,596.00
STARTING YEAR : 1994

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: PD171/91 Rev.2 (F) II.I

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

SESSION APPROVED : XI
SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : COLOMBIA
AGENCY : MINISTRY OF THE ENVIRONMENT
ITTO BUDGET(US\$) : 725,365.00
STARTING YEAR : 1997

DESCRIPTION :
Mangrove forests still have quite extensive distributions in Colombia, but many areas 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: PD171/91 Rev.2 (F) II.II

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

SESSION APPROVED : XI
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : COLOMBIA
AGENCY : MINISTRY OF THE ENVIRONMENT
ITTO BUDGET(US\$) : 641,101.00
STARTING YEAR : *

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: PD172/91 Rev.2 (F) II

TITLE : THE RECOVERY OF NATURAL SYSTEMS OF THE HILLSIDES OF CAQUETA - PHASE II

SESSION APPROVED : XI
SESSION FUNDED : XIX
STATUS : OPERATIONAL
COUNTRY : COLOMBIA
AGENCY : MINISTRY OF THE ENVIRONMENT
ITTO BUDGET(US\$) : 632,974.00
STARTING YEAR : 1996

DESCRIPTION :
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.

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.

PROJECT: PD176/91 Rev.1 (F)

TITLE : SUSTAINED MANAGEMENT FOR PRODUCTION, CONSERVATION, DEMONSTRATION, DIFFUSION AND PROMOTION ACTIVITIES IN MOIST TROPICAL FORESTS IN ECUADOR'S NORTHWEST

SESSION APPROVED : XI
SESSION FUNDED : XI
STATUS : COMPLETED
COUNTRY : ECUADOR
AGENCY : JUAN MANUEL DURINI FORESTRY FOUNDATION
ITTO BUDGET(US\$) : 750,403.50
STARTING YEAR : 1992

DESCRIPTION :
The project is designed to develop demonstration models for forest management within an area of 800 ha in the province of Esmeraldas. In this purpose, the project is composed of 5 elements:
a) Conservation in-situ and ex-situ: 250 ha;
b) Natural regeneration improvement of forests under selective cutting;
c) Forest plantation, species introduction essays, provenance studies and native species arboreta: 200 ha;
d) Rehabilitation of suitable soils with forest aptitude: 150 ha;
e) Extension and evaluation.
The information and data collected by the project and the models developed during the project will contribute to the promotion of the sustainable utilization of forests. They will provide a regional demonstration that silvicultural activities, forest utilization, protection and preservation are complementary, achievable, and sustainable.

PROJECT:	PD186/91 Rev.2 (F)	TITLE : TREE FLORA OF SABAH AND SARAWAK
SESSION APPROVED :	XII	DESCRIPTION :
SESSION FUNDED :	XII	The objective of the project is to develop and publish a complete document (4 volumes) on the flora of Sabah and Sarawak. The document will cover all families of plants and conifers which contain tree species reaching timber-size (90 cm. girth). The document will serve as a reference for the identification of tree species when developing forest projects, especially in the field of timber exploitation, forest and biodiversity conservation, and forest by-products exploitation development.
STATUS :	COMPLETED	The survey of the existing information in the country and outside the country as well as the collection of information and data from the field, will help to achieve the objective.
COUNTRY :	MALAYSIA	
AGENCY :	FRIM	
ITTO BUDGET(US\$) :	712,800.00	
STARTING YEAR :	1993	
PROJECT:	PD202/91 Rev.1 (F)	TITLE : SUSTAINABLE FOREST MANAGEMENT THROUGH COLLABORATIVE EFFORTS
SESSION APPROVED :	XI	DESCRIPTION :
SESSION FUNDED :	XIV	The objective of the proposed project is to develop models of collaborative forestry systems in cooperation with local populations, NGOs, and government institutions. The model aims to improve sustainable forest production and agricultural output, and raise the revenue of the local population. Four trial sites comprised of 50% degraded forests and 50% natural forests, will be selected to develop these models. The project developed a model to promote reforestation and community activities in the buffer-zone area adjacent to national parks, in view of reducing encroachment and illegal logging.
STATUS :	OPERATIONAL	
COUNTRY :	THAILAND	
AGENCY :	SCONTE	
ITTO BUDGET(US\$) :	1,039,500.00	
STARTING YEAR :	1993	
PROJECT:	PD008/92 Rev.2 (F)	TITLE : STUDY ON THE GROWTH OF NATIVE SPECIES OF COMMERCIAL INTEREST IN HONDURAS
SESSION APPROVED :	XIII	DESCRIPTION :
SESSION FUNDED :	XVI	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.
STATUS :	OPERATIONAL	
COUNTRY :	HONDURAS	
AGENCY :	NATIONAL SCHOOL OF FORESTRY SCIENCE (ESNACIFOR)	
ITTO BUDGET(US\$) :	922,467.00	
STARTING YEAR :	1994	
PROJECT:	PD009/92 Rev.2 (F)	TITLE : FOREST MANAGEMENT IN ISLAS DE LA BAHIA, HONDURAS, CENTRAL AMERICA
SESSION APPROVED :	XIII	DESCRIPTION :
SESSION FUNDED :	XIII	The Department of Islas de la Bahia is made up of 3 islands, with covering 261 square km. The population of the department is increasing rapidly. From a population of 12,000 in 1980, it is currently over 22,000. This has resulted in an increasing deforestation rate due to clearing and burning activities to convert land for pastures and subsistence farming. It is reported that the islands have already lost 75% of their tree vegetation cover and that hills, catchment areas, wildlife habitats, and coastal areas have been deforested to such an extent that the environmental and socio-economic conditions of the department are now in a very critical situation. Fishing and tourism are the main sources of income in the islands, and the resource base for these industries are being threatened by the impact of deforestation on landscape values and inshore marine resources such as coral reefs.
STATUS :	COMPLETED	The objective of this project is to reverse this process and contribute to the improvement of the quality of life and income of the population through the regeneration, protection, reforestation and efficient utilization of forest resources, as well as the implementation of forest management, extension and training plans.
COUNTRY :	HONDURAS	
AGENCY :	ASOCIACION PRO-DESAROLLO DE ISLAS DE LA BAHIA	
ITTO BUDGET(US\$) :	722,619.00	
STARTING YEAR :	1993	

PROJECT:	PD011/92 Rev.1 (F)	TITLE : DEVELOPMENT AND DISSEMINATION OF RE-AFFORESTATION TECHNIQUES OF MANGROVE FORESTS
SESSION APPROVED :	XII	DESCRIPTION :
SESSION FUNDED :	XII	Globally, mangrove forests account for about 20 million ha and are situated in heavily populated coastal areas. These forests are used intensively for many purposes ranging from industrial purposes to the protection of fishery resources. Many are being rapidly depleted. Some are already completely exhausted in some countries. This is resulting in serious environmental problems in coastal areas and is creating difficulties in terms of maintaining standards of life for people living in these areas.
STATUS :	COMPLETED	The objective of this project is to promote large scale reforestation for the restoration of mangrove forests that have been degraded or destroyed and afforestation for the purpose of expanding mangrove resources.
COUNTRY :	THAILAND	To meet these objectives, the main activities proposed for the project will include:
AGENCY :	JAPAN ASSOCIATION FOR MANGROVES (JAM)	- the survey of existing information on mangrove forests, mangrove species and mangrove afforestation techniques;
ITTO BUDGET(US\$) :	815,850.00	- the valuation of the current state of denuded mangrove forest lands in ITTO member countries;
STARTING YEAR :	1993	- the development of mangrove afforestation methodologies and technologies to be tested in 3 selected sites in Thailand; and
		- training and extension and the dissemination of projects results.
PROJECT:	PD014/92 Rev.1 (F) II	TITLE : A DEMONSTRATION PROGRAM OF SUSTAINABLE UTILIZATION OF TROPICAL FORESTS BY MEANS OF DIFFERENTIATED MANAGEMENT IN HAINAN ISLAND, CHINA - PHASE II
SESSION APPROVED :	XII	DESCRIPTION :
SESSION FUNDED :	XIX	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:
STATUS :	OPERATIONAL	* The establishment of a demonstration model area for plantation.
COUNTRY :	CHINA	* The establishment of a demonstration area for multi-purpose natural forest management.
AGENCY :	DEPT. OF FORESTRY, HAINAN PROVINCE, CHINA	* The establishment of a demonstration model for protected conservation forests.
ITTO BUDGET(US\$) :	1,091,925.00	Training, education and extension for upgrading local capacities are also becoming important achievements of the project.
STARTING YEAR :	1996	
PROJECT:	PD014/92 Rev.1 (F) III	TITLE : A DEMONSTRATION PROGRAM OF SUSTAINABLE UTILIZATION OF TROPICAL FORESTS BY MEANS OF DIFFERENTIATED MANAGEMENT IN HAINAN ISLAND, CHINA - PHASE III
SESSION APPROVED :	XII	DESCRIPTION :
SESSION FUNDED :	*	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:
STATUS :	PENDING FINANCE	* The establishment of a demonstration model area for plantation lignoculture.
COUNTRY :	CHINA	* The establishment of a demonstration area for multi-purpose natural forest management.
AGENCY :	DEPT. OF FORESTRY, HAINAN PROVINCE, CHINA	* The establishment of a demonstration model for protected conservation forests.
ITTO BUDGET(US\$) :	750,000.00	Training, education and extensions are also becoming important achievements of the project.
STARTING YEAR :	*	
PROJECT:	PD018/92 Rev.1 (F)	TITLE : RESEARCH-DEVELOPMENT ASSOCIATED WITH MANAGEMENT OPERATIONS IN THE CLOSED FOREST OF COTE D'IVOIRE: DETERMINATION OF A FOREST TYPOLOGY RELATED TO SILVICULTURAL SYSTEMS
SESSION APPROVED :	XII	

SESSION FUNDED : XVII
STATUS : OPERATIONAL
COUNTRY : COTE D'IVOIRE
AGENCY : SODEFOR
ITTO BUDGET(US\$) : 300,000.00
STARTING YEAR : 1995

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: PD026/92 Rev.1 (F,I)

TITLE : DEVELOPMENT OF METHODS AND STRATEGIES FOR SUSTAINED
MANAGEMENT OF MOIST TROPICAL FORESTS IN CAMEROON

SESSION APPROVED : XIII

DESCRIPTION :

SESSION FUNDED : XIV
STATUS : OPERATIONAL
COUNTRY : CAMEROON
AGENCY : ONADEF
ITTO BUDGET(US\$) : 1,957,100.00
STARTING YEAR : 1994

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: PD037/92 Rev.1 (F)

TITLE : PRELIMINARY STUDIES AND PREPARATION OF A MANAGEMENT PLAN
FOR THE BOKOUE FOREST

SESSION APPROVED : XIII

DESCRIPTION :

SESSION FUNDED : XVI
STATUS : COMPLETED
COUNTRY : GABON
AGENCY : DIARF
ITTO BUDGET(US\$) : 1,265,292.00
STARTING YEAR : 1994

The 1st forest exploitation zone of Gabon accounts for some 3.5 million ha along the coast and is naturally rich in Okoume species. The forest resources in this zone have become exhausted by repeated felling cycles carried out in a rather short time. No forest management plans have been established for these forests. However, this first zone is considered to be the base of future industrial timber supply in Gabon for both local consumption and export. As a result, some local forest estates, like the Bokoue Forest estate, have been set aside in view of the potential for sustainable management to lead to the reconstitution and enhancement of their production potential.

The project's overall objective is to formulate an integrated management plan for the 100,000 ha Bokoue Forest estate based on preliminary resources studies and consultations with local people that will be undertaken during the project. The project will also provide an opportunity for the development of a model forest management system that will be relevant to similar forest stands in this first zone. Special emphasis will be given to community participation in the implementation of an environmentally sound management plan which aims to achieve a financial balance between income derived from forest exploitation and expenses resulting from silvicultural, agricultural, agroforestry and forest protection activities.

PROJECT: PD042/92 Rev.1 (F) II

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

SESSION APPROVED : XIII

DESCRIPTION :

SESSION FUNDED : XVIII
STATUS : OPERATIONAL

This 5 year project which is divided into two phases, the first two years of which is presented with a

COUNTRY : PERU
AGENCY : INRENA
ITTO BUDGET(US\$) : 977,550.00
STARTING YEAR : 1995

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: PD002/93 Rev.1 (F,I)

TITLE : INTEGRATED PILOT MANAGEMENT OF THE NGUOA II FOREST NORTH - PHASE I: THE PREPARATION OF A MANAGEMENT PLAN

SESSION APPROVED : XIV

DESCRIPTION :

SESSION FUNDED : XVII

STATUS : OPERATIONAL

COUNTRY : CONGO

AGENCY : FORESTRY DEPARTMENT,
MINISTRY OF WATERS &
FORESTS

ITTO BUDGET(US\$) : 756,762.00

STARTING YEAR : 1995

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.

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.

PROJECT: PD006/93 Rev.2 (F)

TITLE : MANUAL AND WORLD NATURAL MANGROVE ATLAS FOR MANGROVE ECOSYSTEM RESTORATION

SESSION APPROVED : XIV

DESCRIPTION :

SESSION FUNDED : XIV

STATUS : COMPLETED

COUNTRY : JAPAN (GLOBAL)

AGENCY : INTERNATIONAL SOCIETY
OF MANGROVE
ECOSYSTEMS (ISME)

ITTO BUDGET(US\$) : 732,984.00

STARTING YEAR : 1993

The total world-wide mangrove area is estimated at approximately 16 million ha. Mangroves support a diversity of terrestrial and aquatic fauna and flora which are of direct and indirect environmental, economic and social value to human societies concerned. Mangrove ecosystems however, are being progressively depleted by uncontrolled exploitation, and in some areas, are in great need of restoration.

The objective of the project is to compile relevant information and produce two books in order to enhance public awareness of the importance of mangrove ecosystems, and to provide the know-how on planting techniques, restoration, and rational management of mangrove communities.

Project activities include:

- collection of practical methods for restoration of mangrove ecosystems;
- development of a data base established in projects PD 71/89 Rev.1 (F) and PD 114/90 (F); and
- compilation of relevant information and production of 2 books to meet the project objectives above.

PROJECT: PD011/93 Rev.1 (F)

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

SESSION APPROVED : XIV

DESCRIPTION :

SESSION FUNDED : XIV

STATUS : OPERATIONAL

COUNTRY : COLOMBIA

AGENCY : MINISTRY OF THE
ENVIRONMENT

ITTO BUDGET(US\$) : 338,643.00

STARTING YEAR : 1994

The proposed project is located in the Cahuinari 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)

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

SESSION APPROVED : XV

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : INDONESIA

AGENCY : PHPA, MINISTRY OF
FORESTRY

ITTO BUDGET(US\$) : 830,621.00

STARTING YEAR : 1996

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: PD020/93 Rev.1(F)

TITLE : DEVELOPMENT OF NATIONAL GUIDELINES FOR THE SUSTAINABLE
MANAGEMENT OF NATURAL TROPICAL FORESTS IN CAMEROON

SESSION APPROVED : XV

SESSION FUNDED : XV

STATUS : OPERATIONAL

COUNTRY : CAMEROON

AGENCY : ONADEF

ITTO BUDGET(US\$) : 414,900.00

STARTING YEAR : 1994

DESCRIPTION :

The objective of the project is to translate the ITTO Guidelines for the Sustainable Management of Natural Tropical Forests into national specific guidelines taking into account the orientations of the new Cameroonian forest policy. Project activities basically include:

1. a review of existing information related to forest management in Cameroon;
2. the formulation, discussion, adoption, publicity and dissemination of the national guidelines, especially through workshops and seminars; and
3. the development of an awareness, plan as well as programs aiming at initiating practices of sustainable natural resources management, among rural populations.

PROJECT: PD022/93 Rev.4 (F)

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

SESSION APPROVED : XVII

SESSION FUNDED : XVIII

STATUS : OPERATIONAL

COUNTRY : CAMEROON

AGENCY : ONADEF

ITTO BUDGET(US\$) : 725,102.00

STARTING YEAR : 1995

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: PD024/93 Rev.2 (F)

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

SESSION APPROVED : XV

SESSION FUNDED : XV

STATUS : OPERATIONAL

COUNTRY : MALAYSIA

AGENCY : FORESTRY DEPARTMENT,
MALAYSIA

ITTO BUDGET(US\$) : 567,558.00

STARTING YEAR : 1993

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 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: PD025/93 Rev.1 (F)

TITLE : EVALUATION OF PROGRESS MADE BY ECUADOR TOWARDS
ACHIEVEMENT OF ITTO TARGET 2000

SESSION APPROVED : XV
SESSION FUNDED : XV
STATUS : COMPLETED
COUNTRY : ECUADOR
AGENCY : INEFAN
ITTO BUDGET(US\$) : 597,130.00
STARTING YEAR : 1994

DESCRIPTION :

Ecuador has nearly 11.5 million ha of forests, with an annual deforestation rate of about 140,000 ha. The forestry sector provides over 90,000 jobs and exports have doubled over the past ten years. Current regulations regarding the use and management of Ecuador's forests appear to be deficient for ensuring sustainability. Only a small percentage of people involved in tropical timber logging and related industries are familiar with ITTO Guidelines for the Sustainable Management of Natural Tropical Forests.

PROJECT: PD026/93 Rev.1 (F)

TITLE : DEVELOPMENT OF BENTUANG KARIMUN NATURE RESERVE AS A
NATIONAL PARK - PHASE I

SESSION APPROVED : XV
SESSION FUNDED : XVI
STATUS : OPERATIONAL
COUNTRY : INDONESIA
AGENCY : PHPA, MINISTRY OF
FORESTRY
ITTO BUDGET(US\$) : 1,250,807.00
STARTING YEAR : 1994

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: PD032/93 Rev.2 (F)

TITLE : REHABILITATION OF LOGGED-OVER FORESTS IN THE ASIA/PACIFIC
REGION (SUB-PROJECT III)

SESSION APPROVED : XV
SESSION FUNDED : XV
STATUS : COMPLETED
COUNTRY : REGIONAL
AGENCY : JOFCA
ITTO BUDGET(US\$) : 596,996.00
STARTING YEAR : 1994

DESCRIPTION :

Large areas of tropical forests in the Asia/Pacific Region have been harvested with little regard for sustainable management. As a result, many forests may not produce commercially valuable timber during the next cutting cycle. The project will continue work on the development of a manual for classifying logged-over forests along with the examination of remote sensing techniques, enabling the assessment of the region's logged over forests. This project will be undertaken with the cooperation and participation of the Governments of Malaysia, Thailand, Philippines, India, Indonesia, Papua New Guinea and Nepal.

This is the third sub project of PD 2/87. The first sub-project resulted in a general overview of logged-over forests in Asia/Pacific. After review of the first sub-project, the seventh session of the Permanent Committee on Reforestation and Forest Management recommended the implementation of a second sub-project, which resulted in the development of a manual containing a classification system for logged over forests, and attempted to link remote sensing techniques with the classification system. The final report of sub-project II was distributed as PCF XII/7. Two independent reviews of the final report of sub-project II were distributed as well. This third sub-project will result in the completion of activities originally proposed in PD 2/87. It aims to continue consultations with research organizations to identify key factors for disseminating the manual developed during Sub-project II and continued refinement of remote sensing techniques for rehabilitation programs in the region.

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

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

SESSION APPROVED : XVI
SESSION FUNDED : XVI

DESCRIPTION :

STATUS : OPERATIONAL
COUNTRY : BOLIVIA
AGENCY : MINISTERIO DE
AGRICULTURA, GANADERIA
Y DESARROLLO RURAL
ITTO BUDGET(US\$) : 1,733,945.00
STARTING YEAR : 1994

This project, a continuation of PD 88/90 (F), will be implemented in the Permanent Production Forest areas and the Chiman Indigenous Territory in the Chiman 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 Chiman Indigenous Territory.

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 Chiman Indigenous Territory in the Chiman 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 Chiman 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 : 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 : 1995

TITLE : EAST NEW BRITAIN Balsa INDUSTRY STRENGTHENING PROJECT

DESCRIPTION :

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.

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.

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.

REFORESTATION AND FOREST MANAGEMENT PROJECTS

<p>PROJECT: PD016/94 Rev.1 (F)</p> <p>SESSION APPROVED :XVI</p> <p>SESSION FUNDED : XVI</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : PERU</p> <p>AGENCY : ECODESARROLLO, MEDIO AMBIENTE Y REFORESTACION (EDMAR)</p> <p>ITTO BUDGET(US\$): 305,078.00</p> <p>STARTING YEAR : 1995</p>	<p>TITLE : REFORESTATION FOR THE PRODUCTION OF VALUABLE TIMBER AND NON-TIMBER PRODUCTS</p> <p>DESCRIPTION :</p> <p>Deforestation in Peru has been caused mainly by the expansion of the agricultural frontier on lands not suitable for agriculture. This process is most evident in the Central Forest region (Selva Central), where the project will be located. As it is utopian to think that legal mechanisms can prevent the development of agricultural activities on lands suitable for forestry, it has been considered appropriate to provide farmers with socially and economically viable technical alternatives.</p> <p>The objective of this project is to carry out reforestation demonstration activities on 150 ha of moist tropical forest for economic purposes and to attempt to restore the ecological balance of these lands, using high commercial value species combined with <i>Croton lechleri</i> species, which in the short and medium term of plantation rotation produces a non-timber product ("Sangre de Grado") for which there is high demand in the national and international markets, thus ensuring considerable income for the beneficiaries.</p>
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<p>PROJECT: PD018/94 Rev.1 (F) I</p> <p>SESSION APPROVED :XVI</p> <p>SESSION FUNDED : XVI</p> <p>STATUS : COMPLETED</p> <p>COUNTRY : PERU</p> <p>AGENCY : INRENA</p> <p>ITTO BUDGET(US\$): 492,790.00</p> <p>STARTING YEAR : 1994</p>	<p>TITLE : PARTICIPATORY FOREST DEVELOPMENT IN THE ALTO MAYO REGION FOR THE SUSTAINABLE MANAGEMENT OF MOIST TROPICAL FORESTS - PHASE I</p> <p>DESCRIPTION :</p> <p>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.</p>
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<p>PROJECT: PD018/94 Rev.1 (F) II</p> <p>SESSION APPROVED :XVI</p> <p>SESSION FUNDED : XXII</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : PERU</p> <p>AGENCY : INRENA</p> <p>ITTO BUDGET(US\$): 888,310.00</p> <p>STARTING YEAR : 1997</p>	<p>TITLE : PARTICIPATORY FOREST DEVELOPMENT IN THE ALTO MAYO REGION FOR THE SUSTAINABLE MANAGEMENT OF MOIST TROPICAL FORESTS - PHASE II</p> <p>DESCRIPTION :</p> <p>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.</p>
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<p>PROJECT: PD027/94 Rev.2 (F)</p> <p>SESSION APPROVED :XVI</p> <p>SESSION FUNDED : XVI</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : GHANA</p> <p>AGENCY : FORESTRY DEPARTMENT</p> <p>ITTO BUDGET(US\$): 694,823.00</p> <p>STARTING YEAR : 1995</p>	<p>TITLE : WOMEN AND TROPICAL FOREST DEVELOPMENT PROGRAM</p> <p>DESCRIPTION :</p> <p>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.</p>
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PROJECT:	PD028/94 Rev.2 (F)	TITLE : CONTINUATION OF THE PUBLICATION OF THE JOURNAL "BOSQUES Y DESARROLLO" AND THE ORGANIZATION OF A COMMUNICATION AND INFORMATION SERVICE
SESSION APPROVED :	XVI	DESCRIPTION :
SESSION FUNDED :	XVIII	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.
STATUS :	OPERATIONAL	
COUNTRY :	PERU	
AGENCY :	ASOCIACION BOSQUES Y DESARROLLO	
ITTO BUDGET(US\$) :	287,804.00	
STARTING YEAR :	1995	
PROJECT:	PD031/94 Rev.1 (F)	TITLE : PLANNING PRACTICAL AND COST EFFECTIVE STRATEGIES FOR GENETIC RESOURCE CONSERVATION OF COMMERCIAL TREE SPECIES IN TROPICAL ASIA AND THE PACIFIC
SESSION APPROVED :	XVI	DESCRIPTION :
SESSION FUNDED :	XVI	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 Asia.
STATUS :	OPERATIONAL	
COUNTRY :	JAPAN	
AGENCY :	ASEAN INSTITUTE OF FOREST MANAGEMENT (AIFM)	
ITTO BUDGET(US\$) :	992,017.00	
STARTING YEAR :	1996	
PROJECT:	PD049/94 Rev.1 (F)	TITLE : ESTABLISHMENT OF AN ONGOING FOREST MONITORING NETWORK (PERMANENT GROWTH PLOTS) IN THE FOREST RESERVES AND WOODLOTS OF THE GUIANA REGION
SESSION APPROVED :	XIX	DESCRIPTION :
SESSION FUNDED :	XX	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.
STATUS :	OPERATIONAL	
COUNTRY :	VENEZUELA	
AGENCY :	SERVICIO FORESTAL VENEZOLANO	
ITTO BUDGET(US\$) :	265,498.30	
STARTING YEAR :	1996	
PROJECT:	PD002/95 Rev.1 (F,I)	TITLE : BOOK AND DATABANK ON THE LESSER-KNOWN TIMBERS OF SOUTH-EAST ASIA: VOLUME 5(3) WITHIN THE PROSEA PROGRAM
SESSION APPROVED :	XVIII	DESCRIPTION :
SESSION FUNDED :	XIX	This project is a continuation of project PD 10/92 Rev. 1 (F): "Books and a Database on the Major and Minor Commercial Timbers of South-East Asia: Volume 5(1) and Volume 5(2) within the PROSEA Programme". The targeted output of this project is to produce Volume 5(3) of the handbook, which is to cover lesser-known species. A databank will be established in Bogor enabling to retrieve huge informations related to the tree species consolidated and updated during the project implementation.
STATUS :	OPERATIONAL	
COUNTRY :	INDONESIA	
AGENCY :	PROSEA	
ITTO BUDGET(US\$) :	996,448.00	
STARTING YEAR :	1996	
PROJECT:	PD003/95 Rev.2 (F)	TITLE : CONSERVATION AND PROVENANCE PLANTINGS AND INTEGRATED PEST MANAGEMENT TO SUSTAIN IROKO PRODUCTION IN WEST AFRICA
SESSION APPROVED :	XVIII	DESCRIPTION :
SESSION FUNDED :	XVIII	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:
STATUS :	OPERATIONAL	1) the establishment of provenance and conservation plantings of Iroko;
COUNTRY :	GHANA	

AGENCY : FOREST RESEARCH INSTITUTE OF GHANA (FORIG)
ITTO BUDGET(US\$): 668,891.00
STARTING YEAR : 1995

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.

PROJECT: PD008/95 Rev.1 (F) TITLE : MULTIPLE RESOURCES STRATIFICATION, MAPPING AND INVENTORY FOR THE FIRST FOREST ZONE IN GABON - PHASE I

SESSION APPROVED : XVIII
SESSION FUNDED : XVIII
STATUS : OPERATIONAL
COUNTRY : GABON
AGENCY : DIARF
ITTO BUDGET(US\$): 1,252,475.00
STARTING YEAR : 1995

DESCRIPTION :
In order to recognize the potential of the areas to be allocated to the National Permanent Forest estate within the first forest zone of Gabon, and to develop the necessary instruments for the sound management of the forest lands. This project will focus on the development of a land-use plan proposal.

PROJECT: PD009/95 Rev.2 (F) TITLE : REFORESTATION USING HIGH-VALUE TROPICAL SPECIES IN AGROFORESTRY SYSTEMS OF THE PROVINCE OF TAMBOPATA

SESSION APPROVED : XVIII
SESSION FUNDED : XVIII
STATUS : OPERATIONAL
COUNTRY : PERU
AGENCY : INRENA
ITTO BUDGET(US\$): 704,503.00
STARTING YEAR : 1995

DESCRIPTION :
Cedrela odorata, Swietenia macrophylla, Cedrelinga 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: PD010/95 Rev.2 (F) TITLE : EVALUATION OF SILVICULTURAL TRIALS OF INDIGENOUS TIMBER SPECIES FOR DEVELOPING FOREST PLANTATIONS IN GABON

SESSION APPROVED : XIX
SESSION FUNDED : XXIII
STATUS : PENDING AGREEMENT
COUNTRY : GABON
AGENCY : DIARF
ITTO BUDGET(US\$): 221,712.00
STARTING YEAR : *

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: PD014/95 Rev.2 (F) TITLE : MODEL FOREST MANAGEMENT AREA - PHASE II

SESSION APPROVED : XIX
SESSION FUNDED : XIX
STATUS : OPERATIONAL
COUNTRY : MALAYSIA
AGENCY : FOREST DEPARTMENT, SARAWAK
ITTO BUDGET(US\$): 1,998,235.00
STARTING YEAR : 1995

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.

<p>PROJECT: PD015/95 Rev.3 (F)</p> <p>SESSION APPROVED : XXI</p> <p>SESSION FUNDED : XXI</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : MALAYSIA</p> <p>AGENCY : SARAWAK FOREST DEPARTMENT</p> <p>ITTO BUDGET(US\$) : 1,261,780.00</p> <p>STARTING YEAR : 1996</p>	<p>TITLE : DEVELOPMENT OF LANJAK-ENTIMAU WILDLIFE SANCTUARY AS A TOTALLY PROTECTED AREA - PHASE II</p> <p>DESCRIPTION :</p> <p>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:</p> <ol style="list-style-type: none"> 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..
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<p>PROJECT: PD016/95 Rev.2 (F)</p> <p>SESSION APPROVED : XVIII</p> <p>SESSION FUNDED : XVIII</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : INDONESIA</p> <p>AGENCY : SEAMEO-BIOTROP</p> <p>ITTO BUDGET(US\$) : 456,989.00</p> <p>STARTING YEAR : 1995</p>	<p>TITLE : FOREST HEALTH MONITORING TO MONITOR THE SUSTAINABILITY OF INDONESIAN TROPICAL RAIN FORESTS</p> <p>DESCRIPTION :</p> <p>This project focuses on the evaluation of forest ecosystems, and more specifically, indicators related to changes, trends, casual agents and mechanisms of forest health.</p> <p>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. 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.</p> <p>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.</p>
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<p>PROJECT: PD030/95 Rev.1 (F) St.I</p> <p>SESSION APPROVED : XIX</p> <p>SESSION FUNDED : XXI</p> <p>STATUS : OPERATIONAL</p> <p>COUNTRY : BRAZIL</p> <p>AGENCY : FUNPAR</p> <p>ITTO BUDGET(US\$) : 853,495.00</p> <p>STARTING YEAR : 1996</p>	<p>TITLE : DISSEMINATION AND TRAINING ON ITTO GUIDELINES AND CRITERIA - PHASE II, STAGE I</p> <p>DESCRIPTION :</p> <p>The project aims to:</p> <ol style="list-style-type: none"> 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.
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<p>PROJECT: PD030/95 Rev.1 (F) St.II</p>	<p>TITLE : DISSEMINATION AND TRAINING ON ITTO GUIDELINES AND CRITERIA - PHASE II, STAGE II</p>
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SESSION APPROVED : XIX

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : BRAZIL

AGENCY : FUNPAR

ITTO BUDGET(US\$) : 806,020.00

STARTING YEAR : *

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.

PROJECT: PD031/95 Rev.3 (F)

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

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

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: PD037/95 Rev.2 (F)

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

SESSION APPROVED : XIX

SESSION FUNDED : XIX

STATUS : OPERATIONAL

COUNTRY : PANAMA

AGENCY : INRENARE

ITTO BUDGET(US\$) : 1,042,667.00

STARTING YEAR : 1996

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 (*Phytelephas semannii*), used by 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)

TITLE : INSTITUTIONAL STRENGTHENING FOR THE SUSTAINABLE MANAGEMENT OF FOREST PLANTATIONS

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

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)

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

SESSION APPROVED : XIX

SESSION FUNDED : XIX

STATUS : OPERATIONAL

COUNTRY : 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.

AGENCY : THE FORESTRY
DEPARTMENT
ITTO BUDGET(US\$) : 333,380.00
STARTING YEAR : 1996

ii) Preparation of guidelines for developing collaborative forest management systems for off-reserve areas.

PROJECT: PD043/95 Rev.1 (M,F,I)

TITLE : FIRST LATIN AMERICAN WORKSHOP ON TROPICAL FORESTS WITHIN
THE FRAMEWORK OF THE INTERNATIONAL TROPICAL TIMBER
AGREEMENT

SESSION APPROVED : XIX
SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : REGIONAL
AGENCY : SERVICIO FORESTAL
VENEZOLANO
ITTO BUDGET(US\$) : 77,260.00
STARTING YEAR : 1997

DESCRIPTION :

The purpose of this project is to promote a series of actions aimed at fostering a discussion amongst Latin American countries so as to harmonize and establish their positions on fundamental issues concerning tropical forest management and regulation. These criteria and proposals will constitute important inputs for the debate on issues to be considered at the XXII Session of the of the International Tropical Timber Council in Santa Cruz de la Sierra, Bolivia.

PROJECT: PD001/96 Rev.3 (F)

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

SESSION APPROVED : XXII
SESSION FUNDED : XXIII
STATUS : PENDING AGREEMENT
COUNTRY : PANAMA
AGENCY : KUNA WORKERS
ASSOCIATION (AEK-
PEMASKY)
ITTO BUDGET(US\$) : 984,772.00
STARTING YEAR : *

DESCRIPTION :

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.

PROJECT: PD008/96 Rev.1 (F)

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

SESSION APPROVED : XX
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : HONDURAS
AGENCY : CATIE
ITTO BUDGET(US\$) : 1,196,889.00
STARTING YEAR : *

DESCRIPTION :

Long-term, sustainable production of mahogany is threatened by genetic erosion, whilst large-scale production in plantations is at present limited by the attacks of the mahogany shoot borer (*Hypsiphyla grandella*). Research to date at CATIE has demonstrated the existence of genetic variations resistant to *Hypsiphyla* 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. The project, through the implementation of these activities, will establish the base for sustainable production of mahogany in plantations. The main activities will include: exploration and seed collection; DNA characterization; clonal testing; development and application of long-term seed storage techniques for ex situ conservation; genetic engineering of *Hypsiphyla*-resistant mahogany; and the design and testing of other non-genetic elements of an integrated pest management strategy that will permit large-scale plantation silviculture of mahogany. Products will include ex situ germplasm collections, and information from genetic and pest management trials.

PROJECT: PD012/96 Rev.2 (F)

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

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

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

STARTING YEAR : 1997

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: PD013/96 Rev.1 (F)

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

SESSION APPROVED : XX

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : BRAZIL

AGENCY : AMAZON WORKERS CENTER
(CTA)

ITTO BUDGET(US\$) : 824,493.00

STARTING YEAR : 1997

DESCRIPTION :

This project seeks to carry out the necessary surveys to develop a multiple-use forest resource management model for the Macaue 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: PD016/96 Rev.4 (F)

TITLE : EX SITU CONSERVATION OF SHOREA LEPROSULA AND LOPHOPETALUM
MULTINERVIUM AND THEIR USE IN FUTURE BREEDING AND
BIOTECHNOLOGY

SESSION APPROVED : XXIII

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : INDONESIA

AGENCY :

ITTO BUDGET(US\$) : 710,401.00

STARTING YEAR : *

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: PD017/96 Rev.2 (F)

TITLE : TECHNICAL ASSISTANCE TO THE NATIONAL FOREST INVENTORY (NFI),
INDONESIA

SESSION APPROVED : XXI

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : INDONESIA

AGENCY : MINISTRY OF FORESTRY -
INTAG

ITTO BUDGET(US\$) : 1,141,461.00

STARTING YEAR : *

DESCRIPTION :

Over the past seven years the Ministry of Forestry (MOF), through the Directorate General of Forest Inventory and Land Use Planning (INTAG), has implemented a national forest inventory. Considerable investments have been made in infrastructure, human resources and data collection, resulting in a facility integrating field inventory, remote sensing and geographic information system technologies and data bases at a national level.

The MOF now wishes to build on these achievements. In particular it seeks to ensure that the forest resource information that has been, and continues to be collected, is put to best use for strategic national forest planning purposes. The existing NFI facility is to be consolidated and enhanced to provide support and strategic planning at a national level and to become the centre for national forest resource information. The MOF realises that continued technical assistance is needed to help achieve these objectives and therefore proposes the technical assistance to the National Forest Inventory Project for funding by ITTO.

PROJECT: PD018/96 Rev.2 (F)

TITLE : VALIDATION OF STUDIES, DEVELOPMENT OF MANAGEMENT PLANS AND
PROPOSAL FOR SUSTAINABLE FOREST PRODUCTION UNITS

SESSION APPROVED : XXI

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : PERU

AGENCY : INRENA

ITTO BUDGET(US\$) : 1,194,049.00

DESCRIPTION :

The objective of this project is to increase sustainable forest production in the Peruvian natural forests through forest management plans, with the aim of updating existing forest management plans and studies in the country so as to make recommendations for the demarcation and implementation of permanent forest production units under management plans, with the participation of the private sector.

STARTING YEAR : *

PROJECT: PD019/96 Rev.1 (F)

TITLE : FOREST PLANTATIONS FOR COMMERCIAL PURPOSES IN AREAS OF "CHACA-CHACALES" IN THE PROVINCE OF SATIPO

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : PERU

AGENCY : INRENA

ITTO BUDGET(US\$) : 755,981.00

STARTING YEAR : *

An area of 750 hectares of open field forest plantations for commercial purposes will be established using slow and fast growing heliophyte species, such as *Cedrela odorata*, *Swietenia macrophylla*, *Cedrelinga catenaeformis*, *Amburana cearensis*, *Calophyllum* sp., *Guazuma crinita*, *Schizolobium amazonicum* and other tropical species of commercial interest, particularly from the genera *Eucalyptus*. Success will be ensured through the implementation of forest extension and training strategies, and validation of silvicultural technologies. A management plan designed to achieve the sustainability of the said plantations will be established with the participation of settlers/farmers who hold title deeds over their lands in the Province of Satipo, Department of Junin, in the Region of Andres A. Caceres.

PROJECT: PD027/96 Rev.1 (F)

TITLE : FORESTRY AND GENETIC IMPROVEMENT OF THE OKOUME (AUCOUMEA KLAINIANA, PIERRE) - PHASE II

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XXII

STATUS : OPERATIONAL

COUNTRY : GABON

AGENCY : DIARF

ITTO BUDGET(US\$) : 301,100.00

STARTING YEAR : 1997

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.

PROJECT: PD028/96 Rev.1 (F)

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

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : GABON

AGENCY : DIARF

ITTO BUDGET(US\$) : 946,983.00

STARTING YEAR : 1996

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; gazetting 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: PD030/96 Rev.3 (F)

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

SESSION APPROVED : XXII

DESCRIPTION :

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : TOGO

AGENCY : ODEF

ITTO BUDGET(US\$) : 684,549.00

STARTING YEAR : *

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: PD035/96 Rev.2 (F)

TITLE : CONSERVATION AND MAINTENANCE OF BIOLOGICAL DIVERSITY IN

REFORESTATION AND FOREST MANAGEMENT PROJECTS

TROPICAL FORESTS MANAGED PRIMARILY FOR TIMBER PRODUCTION,
SURIGAO DEL SUR, PHILIPPINES

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

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-allocation of tropical forests will be formulated. The outputs will contribute to the necessary amendment of government's policies with regard to biodiversity conservation.

PROJECT: PD036/96 Rev.3 (F)

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

SESSION APPROVED : XXII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : CAMEROON
AGENCY : ONADEF
ITTO BUDGET(US\$) : 628,671.00
STARTING YEAR : *

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: PD042/96 Rev.1 (F)

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

SESSION APPROVED : XXI
SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : PERU
AGENCY : MINISTRY OF
AGRICULTURE
ITTO BUDGET(US\$) : 223,660.00
STARTING YEAR : 1997

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: PD008/97 Rev.2 (F)

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

SESSION APPROVED : XXII
SESSION FUNDED : XXII
STATUS : OPERATIONAL
COUNTRY : COLOMBIA
AGENCY : CONIF
ITTO BUDGET(US\$) : 806,214.00
STARTING YEAR : 1998

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:	PD009/97 Rev.1 (F)	TITLE : LANDOWNER EDUCATION AND TRAINING FOR SUSTAINABLE FOREST MANAGEMENT
SESSION APPROVED :	XXII	DESCRIPTION :
SESSION FUNDED :	XXII	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.
STATUS :	OPERATIONAL	
COUNTRY :	FIJI	
AGENCY :	FORESTRY DEPARTMENT	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 fully sustainable standards and to train landowners and contractors in the skills and requirements of logging to those standards.
ITTO BUDGET(US\$) :	418,835.00	
STARTING YEAR :	*	
PROJECT:	PD010/97 Rev.1 (F)	TITLE : A SUSTAINABLE MANAGEMENT MODEL IN THE IWOKRAMA RAIN FOREST
SESSION APPROVED :	XXII	DESCRIPTION :
SESSION FUNDED :	XXII	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.
STATUS :	PENDING AGREEMENT	
COUNTRY :	GUYANA	
AGENCY :	IWOKRAMA INTL. CNTR. FOR RAIN FOREST CONSERV. AND DEV.	
ITTO BUDGET(US\$) :	780,626.00	
STARTING YEAR :	*	
PROJECT:	PD012/97 Rev.1 (F)	TITLE : FOREST, SCIENCE AND SUSTAINABILITY: THE BULUNGAN MODEL FOREST
SESSION APPROVED :	XXII	DESCRIPTION :
SESSION FUNDED :	XXII	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.
STATUS :	OPERATIONAL	
COUNTRY :	INDONESIA	
AGENCY :	CENTER FOR INTERNATIONAL FORESTRY RESEARCH (CIFOR)	
ITTO BUDGET(US\$) :	965,650.00	
STARTING YEAR :	1997	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:	PD013/97 Rev.1 (F)	TITLE : DISSEMINATION OF NEW REMOTE SENSING METHODOLOGY THROUGH A SEMI-EXPERT SYSTEM
SESSION APPROVED :	XXII	DESCRIPTION :
SESSION FUNDED :	XXII	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 P 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
STATUS :	OPERATIONAL	
COUNTRY :	JAPAN/REGIONAL ASIA	
AGENCY :	JOFCA	
ITTO BUDGET(US\$) :	596,075.00	

STARTING YEAR : 1997

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: PD014/97 Rev.1 (F)

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

SESSION APPROVED : XXII

DESCRIPTION :

SESSION FUNDED : XXII

STATUS : OPERATIONAL

COUNTRY : JAPAN

AGENCY : INTERNATIONAL SOCIETY
FOR MANGROVE
ECOSYSTEMS (ISME)

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.

ITTO BUDGET(US\$) : 979,872.00

STARTING YEAR : 1997

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: PD016/97 Rev.2 (F)

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

SESSION APPROVED : XXIII

DESCRIPTION :

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : THAILAND

AGENCY :

ITTO BUDGET(US\$) : 601,333.00

STARTING YEAR : *

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: PD021/97 Rev.2 (F)

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

SESSION APPROVED : XXIII

DESCRIPTION :

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : PHILIPPINES

AGENCY :

ITTO BUDGET(US\$) : 913,285.00

STARTING YEAR : *

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: PD022/97 Rev.1 (F)

TITLE : INTEGRATED PILOT MANAGEMENT OF A LONG-TERM LOGGING AND
MANAGEMENT PERMIT (LMP) WITH THE COOPERATION OF THE SOCIETE

SESSION APPROVED : XXII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : CENTRAL AFRICAN REP.
AGENCY : MIN. FOR EVRMNT., WATER,
FORESTS, HUNTING AND
FISHING
ITTO BUDGET(US\$) : 1,354,836.00
STARTING YEAR : *

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)

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

SESSION APPROVED : XXII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : BOLIVIA
AGENCY : WILDLIFE AND FOREST
DEVELOPMENT
DIRECTORATE (DIFOVIS)
ITTO BUDGET(US\$) : 1,006,031.00
STARTING YEAR : *

DESCRIPTION :

This project proposal is the outcome of PPD 8/96 (F) "Improvement of the Initial Project 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: PD024/97 Rev.1 (F)

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

SESSION APPROVED : XXIII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : BOLIVIA
AGENCY : BOLFOR
ITTO BUDGET(US\$) : 946,652.00
STARTING YEAR : *

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: PD027/97 Rev.1 (F)

TITLE : TREE FLORA OF SABAH AND SARAWAK - Phase II

SESSION APPROVED : XXIII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : MALAYSIA
AGENCY :
ITTO BUDGET(US\$) : 850,225.00
STARTING YEAR : *

DESCRIPTION :

The project aims to provide up-to-date information on the botany, distribution, ecology, utilization, 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. In so doing the project will consolidate and upgrade Malaysian capability and expertise in taxonomic research, and in the survey, documentation and evaluation of tree-species diversity.

The proposed activities include post-graduate programme, specialized training and documentation as well as computerization of specimen data.

PROJECT: PD028/97 Rev.1 (F)
SESSION APPROVED : XXIII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : TOGO
AGENCY :
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: 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.

PROJECT: PD038/97 Rev.1 (F) - I
SESSION APPROVED : XXIII
SESSION FUNDED : XXIII
STATUS : PENDING AGREEMENT
COUNTRY :
AGENCY :
ITTO BUDGET(US\$) : 727,950.00
STARTING YEAR : *

TITLE : BOOKS AND DATABANK ON THE MEDICINAL AND POISONOUS PLANTS
OF SOUTH-EAST ASIA VOLUME12(1), VOLUME 12(2), AND VOLUME 12(3)
WITHIN THE PROSEA PROGRAMME

DESCRIPTION :

The project will document the existing wealth of information on the plant resources of South-east Asia and to make it available for education, extension work, research and industry in the form of an illustrated multi volume handbook and a computerized databank. The project will focus on documentation of knowledge of medicinal and poisonous plant to complete the set of expected twenty Volumes of PROSEA series.

The activities include preparation of volume 12(1), (2) and (3) which will cover more than 600 genera of medicinal and poisonous plants in the region. The handbook will published in a hardcover-edition, low-price paperback edition, as well as, in CD-ROM output. The project will also develop operational network and establish databank for information storage and retrieval called PROSEA Databank for dissemination purpose.

PROJECT: PD038/97 Rev.1 (F) - II
SESSION APPROVED : XXIII
SESSION FUNDED :

TITLE : BOOKS AND DATABANK ON THE MEDICINAL AND POISONOUS PLANTS
OF SOUTH-EAST ASIA VOLUME12(1), VOLUME 12(2), AND VOLUME 12(3)
WITHIN THE PROSEA PROGRAMME

DESCRIPTION :

STATUS : PENDING FINANCE
COUNTRY :
AGENCY :
ITTO BUDGET(US\$) : 727,950.00
STARTING YEAR : *

The project will document the existing wealth of information on the plant resources of South-east Asia and to make it available for education, extension work, research and industry in the form of an illustrated multi volume handbook and a computerized databank. The project will focus on documentation of knowledge of medicinal and poisonous plant to complete the set of expected twenty Volumes of PROSEA series.

The activities include preparation of volume 12(1), (2) and (3) which will cover more than 600 genera of medicinal and poisonous plants in the region. The handbook will published in a hardcover-edition, low-price paperback edition, as well as, in CD-ROM output. The project will also develop operational network and establish databank for information storage and retrieval called PROSEA Databank for dissemination purpose.

PROJECT: PD042/97 Rev.1 (F)

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

SESSION APPROVED : XXIII

DESCRIPTION :

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : BOLIVIA

AGENCY : CAMARA NACIONAL FORESTAL

ITTO BUDGET(US\$) : 489,520.00

STARTING YEAR : *

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: PD045/97 Rev.1 (F)

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

SESSION APPROVED : XXIII

DESCRIPTION :

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : BRAZIL

AGENCY : TROPICAL FOREST FOUNDATION

ITTO BUDGET(US\$) : 875,281.00

STARTING YEAR : *

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 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: PD057/97 Rev.1 (F)

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

SESSION APPROVED : XXIII

DESCRIPTION :

SESSION FUNDED : XXIII

STATUS : PENDING AGREEMENT

COUNTRY : CHINA

AGENCY : FORESTRY BUREAU OF HAINAN PROVINCE

ITTO BUDGET(US\$) : 304,712.00

STARTING YEAR : *

The projec 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: PD060/97 Rev.1 (F)

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

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 : *

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.

PRE-PROJECT:	PP-F/05-11	TITLE : COORDINATED NATURAL FOREST MANAGEMENT AND SUSTAINABLE RURAL DEVELOPMENT IN AREAS ADJOINING SAPO NATIONAL PARK, LIBERIA
SESSION APPROVED :	V	DESCRIPTION :
SESSION FUNDED :	V	
STATUS :	TERMINATED	The objective of this study is to design a project which aims to formulate and initiate the implementation of a plan for coordinated natural forest management and sustainable rural development in the areas adjoining Sapo National Park in Eastern Liberia. The plan for Forest development and management should be closely linked to the development priorities of the rural communities in and around the area and should ensure a stable environment. The project should form an integral part of the National Tropical Forestry Action Plan and be designed so that it can serve as a model for the development of forests surrounding other protected areas in Liberia and in the region.
COUNTRY :	LIBERIA	
AGENCY :	FORESTRY DEVELOPMENT AUTHORITY	
ITTO BUDGET(US\$) :	25,000.00	
STARTING YEAR :	*	
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PRE-PROJECT:	PP-F/08-19	TITLE : REALISTIC STRATEGIES FOR THE CONSERVATION OF BIOLOGICAL DIVERSITY IN TROPICAL MOIST FORESTS
SESSION APPROVED :	VIII	DESCRIPTION :
SESSION FUNDED :	VIII	
STATUS :	COMPLETED	This pre-project identified the steps necessary to ensure the conservation of biological diversity of tropical moist forests. It is reporting on the current situation regarding protected area networks, examining the problems of maintaining protected areas and integrating them with other land-use activities, and assessing the state of knowledge regarding biodiversity conservation in production forests under various forms of management.
COUNTRY :	IUCN (GLOBAL)	
AGENCY :	INTL. UNION FOR THE CONSERVATION OF NATURE (IUCN)	
ITTO BUDGET(US\$) :	235,000.00	IUCN has already released a publication titled "Conservation of Biological Diversity" in English, French and Spanish. The latter two books shall be distributed at ITTO's twenty-second session. The project is expected to be reported as completed at the same session.
STARTING YEAR :	1990	
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PRE-PROJECT:	PPD003/92 Rev.1 (F)	TITLE : INTEGRATED FOREST PROJECT FOR THE PRODUCTION OF SEEDLINGS IN PARA STATE - FEASIBILITY STUDY
SESSION APPROVED :	XII	DESCRIPTION :
SESSION FUNDED :	XIV	
STATUS :	COMPLETED	The objective of the pre-project is to study the technical, economic, legal, social and environmental implications and constraints for the establishment of a regional program for seedling production, to support the efforts needed to recover areas degraded by inappropriate conversion, harvesting or forest management techniques. The project is considering a joint effort between local communities and the local timber industry.
COUNTRY :	BRAZIL	
AGENCY :	SINDIMAD - SINDICATO DOS MADEIREIROS DO PARA	
ITTO BUDGET(US\$) :	107,625.00	
STARTING YEAR :	1993	
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PRE-PROJECT:	PPD006/93 Rev.1 (F)	TITLE : THE DEVELOPMENT OF GUIDELINES FOR THE PROTECTION OF TROPICAL FORESTS AGAINST FIRE
SESSION APPROVED :	XIV	DESCRIPTION :
SESSION FUNDED :	XIV	
STATUS :	COMPLETED	The objective of this pre-project is to develop principles and a set of possible actions to prevent and manage tropical forest fires, to be published as ITTO Guidelines for the Protection of Tropical Forests Against Fire. These Guidelines will complement ITTO's Guidelines for: 1) Sustainable Management of Tropical Forests, 2) Planted tropical Forests and 3) Biodiversity Conservation, which when taken together, will provide a comprehensive set of reference standards for the development of more specific guidelines at a national level.
COUNTRY :	ITTO (GLOBAL)	
AGENCY :	ITTO	
ITTO BUDGET(US\$) :	129,410.00	
STARTING YEAR :	1993	
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PRE-PROJECT:	PPD008/93 (F)	TITLE : DEMONSTRATION AREAS FOR SUSTAINABLE MANAGEMENT OF PRODUCTION FORESTS
SESSION APPROVED :	XIV	DESCRIPTION :
SESSION FUNDED :	XIV	
STATUS :	OPERATIONAL	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
COUNTRY :	ITTO (GLOBAL)	

AGENCY : ITTO
ITTO BUDGET(US\$) : 110,000.00
STARTING YEAR : 1993

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.

PRE-PROJECT: PPD011/93 Rev.2 (F)

TITLE : EVALUATION AND DIAGNOSIS OF CURRENT FOREST HARVESTING LICENSING, CONCESSION AND CONTROL SYSTEMS WITHIN A FRAMEWORK OF SUSTAINABLE FOREST RESOURCE MANAGEMENT

SESSION APPROVED : XV
SESSION FUNDED : XVI
STATUS : COMPLETED
COUNTRY : COLOMBIA
AGENCY : MINISTRY OF THE ENVIRONMENT
ITTO BUDGET(US\$) : 252,375.00
STARTING YEAR : 1994

DESCRIPTION :

This pre-project will evaluate current rules, regulations and practices regarding the granting and management of forest concessions in Colombia. The pre-project will be implemented by the Ministry of the Environment which will establish a technical committee made-up of representatives from the National Planning Department and the Ministry of Agriculture.

The development objective is to contribute to the sustainable management and use of forest resources in Colombia through the harmonization and improvement of technical criteria and procedures for the granting of harvesting concessions and licences, as well as the establishment of harvesting control and penalty systems.

PRE-PROJECT: PPD012/93 (F)

TITLE : BIOTECHNOLOGY AND SUSTAINABLE PRODUCTION OF TROPICAL TIMBER

SESSION APPROVED : XVI
SESSION FUNDED : XVI
STATUS : OPERATIONAL
COUNTRY : ITTO
AGENCY : ITTO
ITTO BUDGET(US\$) : 44,000.00
STARTING YEAR : 1995

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.

PRE-PROJECT: PPD008/94 Rev.2 (F)

TITLE : DIAGNOSIS AND DESIGN OF A SUPPORT PROGRAM FOR PLANFOR

SESSION APPROVED : XVIII
SESSION FUNDED : XVIII
STATUS : OPERATIONAL
COUNTRY : ECUADOR
AGENCY : CORMADERA
ITTO BUDGET(US\$) : 154,821.00
STARTING YEAR : 1995

DESCRIPTION :

This pre-project intends to support the implementation of PLANFOR through an analysis of forest plantation incentives, the development of appropriate solutions and the methodology to implement them, as well as to encourage the involvement of civil society, particularly rural communities and the timber industry, in afforestation and reforestation programs and in the sustained management of planted forests.

PRE-PROJECT: PPD006/95 Rev.1 (F)

TITLE : FOREST DEVELOPMENT PLAN FOR THE SUSTAINABLE MANAGEMENT OF FORESTS IN THE DONOSO DISTRICT, PROVINCE OF COLON, REPUBLIC OF PANAMA

SESSION APPROVED : XVIII
SESSION FUNDED : XVIII
STATUS : OPERATIONAL
COUNTRY : PANAMA
AGENCY : INRENARE
ITTO BUDGET(US\$) : 251,407.00
STARTING YEAR : 1995

DESCRIPTION :

This pre-project was developed in response to the conclusions and recommendations made to PD 32/94 Rev.1 (F.I) by the ninth ITTO Expert Panel on Project Appraisal. The panel recommended that a pre-project proposal be formulated incorporating the suggested modifications. These were: 1) that the pre-project should include a brief summary of the 1984 Donoso Forest Inventory prepared by JICA/INRENARE, a biodiversity inventory, and a socio-economic study; and 2) that the pre-project should result in the development of a project proposal to be submitted to ITTO for the management of the Donoso forest with community involvement.

The final output of this pre-project will be a Forest Development Plan for the Donoso District, covering a total area of 50,000 ha. The Forest Development Plan will propose viable alternatives for sustainable production in natural (primary or secondary) forests, incorporating measures to lessen the environmental impact of the activities to be implemented and to strengthen community participation.

PRE-PROJECT:	PPD008/95 Rev.2 (F)	TITLE : MANGROVE RESOURCE INFORMATION SYSTEM OF THE SCOPE AND CONTENT OF EXISTING DATABASES
SESSION APPROVED :	XIX	DESCRIPTION :
SESSION FUNDED :	XIX	The long-term objective of this project is to establish a user-friendly, GIS-based global Mangrove Resource Information System to provide mangrove forest resource managers with the technical information needed to manage mangrove forests sustainably for multiple uses, including forestry, fisheries and environmental protection.
STATUS :	OPERATIONAL	
COUNTRY :	GLOBAL	
AGENCY :	ISME	
ITTO BUDGET(US\$) :	96,427.00	
STARTING YEAR :	1996	
PRE-PROJECT:	PPD009/95 Rev.2 (F)	TITLE : CONSERVATION FORESTRY: DESIGN OF A COMMUNITY-BASED PARTICIPATORY TRAINING PROGRAMME FOR NATURAL FOREST MANAGEMENT
SESSION APPROVED :	XXIII	DESCRIPTION :
SESSION FUNDED :		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.
STATUS :	PENDING FINANCE	
COUNTRY :	PHILIPPINES	
AGENCY :		
ITTO BUDGET(US\$) :	177,072.00	
STARTING YEAR :	*	
		The main activities are survey on communities, training and workshop to formulate a concrete proposal in conservation forestry training program design.
PRE-PROJECT:	PPD014/95 Rev.3 (F)	TITLE : IDENTIFICATION AND PLANNING OF MEASURES FOR THE SUSTAINABLE MANAGEMENT OF TEAK PLANTATIONS IN TOGO
SESSION APPROVED :	XX	DESCRIPTION :
SESSION FUNDED :	XX	Togo has more than 20,000 hectares of plantations, 6,000 ha of which are teak, and are scattered around the southern 3/4 of the country. So far, these plantations have received very little silvicultural treatment. The specific objectives of this pre-project are to develop management plans and identify and assess the necessary measures for institutional strengthening to ensure the sustainable management of these plantations.
STATUS :	COMPLETED	
COUNTRY :	TOGO	
AGENCY :	ODEF	
ITTO BUDGET(US\$) :	40,090.00	
STARTING YEAR :	1996	
PRE-PROJECT:	PPD017/95 Rev.1 (F)	TITLE : DEVELOPMENT AND PROMOTION OF AFFORESTATION ACTIVITIES IN EGYPT
SESSION APPROVED :	XIX	DESCRIPTION :
SESSION FUNDED :	XX	The specific objective of the project is to critically examine various aspects of the forestry situation in Egypt and formulate a project proposal with the long term objective of creating forestry awareness and promoting multipurpose reforestation activities in Egypt.
STATUS :	OPERATIONAL	
COUNTRY :	EGYPT	
AGENCY :	UNDERSECRETARIAT FOR AFFORESTATION, MINISTRY OF AGRIC.	
ITTO BUDGET(US\$) :	77,015.00	
STARTING YEAR :	1996	
PRE-PROJECT:	PPD003/96 Rev.1 (F)	TITLE : DESIGN OF A SOCIALLY SUSTAINABLE FOREST MANAGEMENT MODEL
SESSION APPROVED :	XX	DESCRIPTION :
SESSION FUNDED :	XX	The hiring of a team of experts is proposed in order to formulate a management plan, designed and implemented with the active participation of local communities in the conversion forest areas of the Alexander von Humboldt National Forest. The implementation of this proposal would be a solution to the impacts of the de-facto occupation of the areas not included in the management plan of ITTO Project PD 95/90, it would generate a tropical timber surplus for export, and it would lead to the establishment of new industries. Most importantly, it would create permanent and secure sources of
STATUS :	OPERATIONAL	
COUNTRY :	PERU	
AGENCY :	INRENA	
ITTO BUDGET(US\$) :	193,593.00	

STARTING YEAR : 1996

income for the participating communities, thus ensuring the viability of forest-based socio-economic development.

PRE-PROJECT: PPD004/96 Rev.1 (F)

TITLE : DEVELOPMENT OF A MASTER PLAN FOR FOREST MANAGEMENT IN CONGO

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XX

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.

STATUS : OPERATIONAL

COUNTRY : CONGO

AGENCY : DIRECTION GENERALE DES EAUX ET FORETS

ITTO BUDGET(US\$) : 44,385.00

STARTING YEAR : 1996

PRE-PROJECT: PPD005/96 (F)

TITLE : BUFFER ZONE DEVELOPMENT FOR SUSTAINABLE FOREST MANAGEMENT

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XX

This proposal will undertake a six month pre-project study to assess the requirements for buffer zone management at Kaeng Krachan National Park. The selected site is the largest protected park in Thailand and as such is an important refuge for many rare species, a large number of these being endemic to Thailand. The park is currently suffering encroachment at many points along its boundary and therefore urgently requires a management strategy designed to protect natural forest resources and also alleviate the pressure for land in the surrounding communities.

STATUS : OPERATIONAL

COUNTRY : THAILAND

AGENCY : THAILAND ENVIRONMENT INSTITUTE

ITTO BUDGET(US\$) : 41,878.22

STARTING YEAR : 1996

The project will assess the current status of the buffer zone area of the project site, then examine other buffer zone areas which have implemented management projects and use this information to design a buffer zone management strategy. This management strategy will then be implemented and evaluated in a three year project, designed to maximize the protection of its natural forest resources. The long term objective is to help eliminate the pressure on natural forest areas within the protected area system in Thailand.

PRE-PROJECT: PPD008/96 (F)

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

SESSION APPROVED : XX

DESCRIPTION :

SESSION FUNDED : XX

STATUS : OPERATIONAL

COUNTRY : BOLIVIA

AGENCY : DIRECCION FORESTAL Y DE VIDA SILVESTRE

ITTO BUDGET(US\$) : 45,753.00

STARTING YEAR : 1996

This pre-project is aimed at strengthening a project proposal to be implemented in an area of over 150,000 ha located in the Nicolas Suarez Province in the Department of Pando. It seeks to implement a sustainable management system with a view to increasing forest production in the natural forests of the Bolivian Amazon region through forest management plans that will facilitate the participation of private companies and native communities in the project area on the basis of institutional strengthening and development.

PRE-PROJECT: PPD009/96 Rev.1 (F)

TITLE : ESTABLISHMENT OF A CENTER FOR THE PRODUCTION OF FOREST TREE SEEDS

SESSION APPROVED : XXI

DESCRIPTION :

SESSION FUNDED :

STATUS : PENDING FINANCE

The aim of this pre-project is to carry out a feasibility study on the establishment of a suitable technical infrastructure for the production and conditioning of forest tree seeds, in order to have a bank available of the necessary seeds to meet user demands.

COUNTRY : CONGO

AGENCY : DIRECTION GENERALE DES EAUX ET FORETS

ITTO BUDGET(US\$) : 63,658.00

STARTING YEAR : *

PRE-PROJECT: PPD010/96 Rev.1 (F)

TITLE : PRELIMINARY STUDY FOR A PROJECT ON THE PRODUCTION OF TIMBER BY AGROFORESTRY METHODS IN THE WAWA REGION (PLATEAU

SESSION APPROVED :XXI
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : TOGO
AGENCY : DIRECTION DES
PRODUCTIONS
FORESTIERES (DPF)
ITTO BUDGET(US\$) : 50,302.00
STARTING YEAR : *

REGION OF TOGO)

DESCRIPTION :

Wawa Prefecture is situated in the forested area of Togo. It is a particularly suitable region for cash crop (coffee and cocoa) farming. Cash crop cultivation has been promoted at the expense of the forests, which have almost disappeared from the Akposso rural landscape.

This pre-project is aimed at surveying the prevailing conditions with a view to preparing a project document on the production of timber by the taungya method in the Wawa Prefecture (Plateau region of Togo). The key concept is to reduce, or even eliminate, the negative effects of cash crops, which is linked to the destruction of forest cover. The pre-project intends to re-introduce forest timber species into the Akposso farming environment to re-establish the forest estate to satisfy local timber demand and increase foreign currency earnings.

PRE-PROJECT: PPD011/96 Rev.2 (F)

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

SESSION APPROVED :XXII
SESSION FUNDED : XXII
STATUS : PENDING AGREEMENT
COUNTRY : TOGO
AGENCY : DEPT. FOR THE
PROTECTION AND
CONTROL OF FLORA
UTILZTN.
ITTO BUDGET(US\$) : 59,204.00
STARTING YEAR : *

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 Kloto natural forests.

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 Kloto 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.

PRE-PROJECT: PPD013/96 Rev.1 (F)

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

SESSION APPROVED :XXI
SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : COTE D'IVOIRE
AGENCY : SODEFOR
ITTO BUDGET(US\$) : 84,930.00
STARTING YEAR : 1997

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.

PRE-PROJECT: PPD015/96 Rev.1 (F)

TITLE : TECHNICAL ASSISTANCE TO DEVELOP A MAPPING AND INVENTORY
PROJECT AIMED AT THE SUSTAINABLE MANAGEMENT AND
ADMINISTRATION OF FOREST RESOURCES

SESSION APPROVED :XXI
SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : PANAMA
AGENCY : INRENARE
ITTO BUDGET(US\$) : 49,902.00
STARTING YEAR : 1997

DESCRIPTION :

This pre-project will provide for the formulation of a project proposal to reinforce and further develop the current level of knowledge on Panama's forest cover in its current state and recommend a land use management plan based on the potential of the resource and its efficient utilization. The project will also define an overall strategy and action plan to strengthen Panama's capabilities to monitor its progress towards the achievement of the Year 2000 Objective.

PRE-PROJECT: PPD016/96 Rev.2 (F)

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

SESSION APPROVED :XXI

DESCRIPTION :

SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : CHINA
AGENCY : DEPARTMENT OF FORESTS,
YUNNAN PROVINCE
ITTO BUDGET(US\$) : 91,046.50
STARTING YEAR : 1997

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.

PRE-PROJECT: PPD017/96 Rev.1 (F)

TITLE : 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

SESSION APPROVED : XXI
SESSION FUNDED : XXI
STATUS : OPERATIONAL
COUNTRY : GABON
AGENCY : MINISTRY OF WATER &
FORESTS, GABON
ITTO BUDGET(US\$) : 88,242.00
STARTING YEAR : 1997

DESCRIPTION :

This pre-project aims to define the following action strategies for the sustainable management of the forests of Gabon: 1) survey of the entire national forest territory, 2) continue forest territory stratification studies, and 3) the development and implementation of management plans for stands within the permanent forest estate.

PRE-PROJECT: PPD019/96 Rev.1 (F)

TITLE : DEVELOPMENT OF AN INTEGRATED STRATEGY FOR REDUCTION OF SHOOT BORER IMPACT ON WEST AFRICAN MAHOGANY PLANTATIONS

SESSION APPROVED : XXIII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : GHANA
AGENCY : FORIG
ITTO BUDGET(US\$) : 163,098.00
STARTING YEAR :

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.

PRE-PROJECT: PPD001/97 Rev.1 (F)

TITLE : EVALUATION OF THE IMPACT OF DISTURBANCES AND CONSERVATION IN SITU OF THE PHYTOGENIC RESOURCE OF CAMEROON'S CLOSED FOREST

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

DESCRIPTION :

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 phylogenetic resources of Cameroon closed forest. Pre-project activities will include:

- 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 phylogenetic 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.

PRE-PROJECT: PPD003/97 Rev.1 (F)

TITLE : FOREST INVENTORY AND MONITORING PROGRAM FOR THE SUSTAINABLE MANAGEMENT OF BOLIVIA'S FOREST RESOURCES

SESSION APPROVED : XXII
SESSION FUNDED : XXII
STATUS : OPERATIONAL
COUNTRY : BOLIVIA
AGENCY : MINISTERIO DE
AGRICULTURA, GANADERIA
Y DESARROLLO RURAL
ITTO BUDGET(US\$) : 88,198.00

DESCRIPTION :

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.

STARTING YEAR : 1998

PRE-PROJECT: PPD004/97 Rev.1 (F)

TITLE : REHABILITATION OF DAMAGED AREAS OF THE "CERRADO"

SESSION APPROVED : XXIII
SESSION FUNDED : XXIII
STATUS : PENDING AGREEMENT
COUNTRY : BRAZIL
AGENCY : PRO-CERRADO
FOUNDATION
ITTO BUDGET(US\$) : 51,168.00
STARTING YEAR : *

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.

PRE-PROJECT: PPD005/97 (F)

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

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

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.

PRE-PROJECT: PPD006/97 Rev.1 (F)

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

SESSION APPROVED : XXIII
SESSION FUNDED :
STATUS : PENDING FINANCE
COUNTRY : MYANMAR
AGENCY :
ITTO BUDGET(US\$) : 50,000.00
STARTING YEAR : *

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

PRE-PROJECT: PPD007/97 Rev.1 (F)

TITLE : FOREST INVENTORY FOR THE SUSTAINABLE PRODUCTION OF
MAHOGANY TIMBER

SESSION APPROVED : XXIII
SESSION FUNDED : XXIII
STATUS : PENDING AGREEMENT
COUNTRY : BRAZIL
AGENCY : IBAMA
ITTO BUDGET(US\$) : 147,700.00
STARTING YEAR : 1998

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.

PRE-PROJECT: PPD011/97 (F)

TITLE : ASSESSMENT OF THE FORESTRY SECTOR

SESSION APPROVED : XXIII

SESSION FUNDED :

STATUS : PENDING FINANCE

COUNTRY : LIBERIA

AGENCY : FDA

ITTO BUDGET(US\$) : 56,970.00

STARTING YEAR :

DESCRIPTION :

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

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

PROJECT:	PD001/93 Rev.1 (M,F,I)	TITLE :	ITTO FELLOWSHIP PROGRAMME - PHASE II
SESSION APPROVED :	XIV	DESCRIPTION:	
SESSION FUNDED :	XIV		
STATUS :	OPERATIONAL		This 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.
COUNTRY:	GLOBAL		
AGENCY:	ITTO		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.
ITTO BUDGET (US\$) :	1,779,350.00		
STARTING YEAR :	1993		
PROJECT:	PD060/89 (M,F,I)	TITLE :	FELLOWSHIP AND RELATED ASSISTANCE PROGRAM TO PROMOTE TROPICAL FOREST SECTOR DEVELOPMENT
SESSION APPROVED :	VI	DESCRIPTION:	
SESSION FUNDED :	VI		
STATUS :	COMPLETED		This project was designed to promote human resources development and institutional strengthening of the forestry sectors of member countries, in compliance with ITTO's general objectives of sustainable forest management, utilization and trade. Fellowship awards were made directly to individuals rather than to institutions.
COUNTRY:	GLOBAL		
AGENCY:	ITTO		
ITTO BUDGET (US\$) :	1,110,553.27		The project attracted nearly 500 fellowship applications, considered in eight Council Sessions over four years. A total of 168 awards, 34% of applications, were made during this period averaging US\$6,366 each. Females accounted for approximately 17% of applications and 16% of awards. The average age of all awardees was 36.7 years old (at time of application). This reflects one of the major aims of the Fellowship Programme which was to target the middle management level.
STARTING YEAR :	1989		The distribution of the 168 awards amongst the three ITTO Committees was as follows: Reforestation and Forest Management (RFM) 43%, Forest Industry (FI) 38%, and Economic Information and Market Intelligence (EIMI) 19%.
PROJECT:	PD003.a/87 Rev.2 (I)	TITLE :	ENHANCING LOCALLY THE VALUE OF LESSER KNOWN SPECIES (MANUFACTURE OF BLOCKBOARDS FROM LESSER KNOWN SPECIES IN CAMEROON)
SESSION APPROVED :	VI	DESCRIPTION:	
SESSION FUNDED :	VI		
STATUS :	COMPLETED		This project carried out research and training activities designed to facilitate manufacturing of edge-glued panels with lesser known species in Cameroon.
COUNTRY:	CAMEROON		A research center in Cameroon (ONADEF, formerly CENADEFOR), assisted by the Centre Technique Forestier Tropical (France) was responsible for the implementation of project activities. These included the manufacturing of 40 cubic meters of edge-glued panels; evaluation of panels' performance in furniture products, flooring materials, partitions, doors, and housing components; organization of training sessions to familiarize industrialists and craftsmen with the panel manufacturing process; and implementation of market studies to assess demand and trade potential for these panels in Cameroon.
AGENCY:	ONADEF		
ITTO BUDGET (US\$) :	159,000.00		The implementing agency reported that the project successfully introduced edge-glued panel manufacturing technologies to 25 small industries and craftsmen in Cameroon. Market studies confirmed demand for this type of panel, and several small industries are now reportedly producing it on a commercial basis.
STARTING YEAR :	1990		The project team also used edge-glued panels in the construction of a prototype portable house which will be exhibited in trade and industry fairs to promote the use of these panels.
PROJECT:	PD003/96 Rev.2 (I)	TITLE :	DEVELOPMENT AND EXTENSION OF RUBBERWOOD PROCESSING AND UTILIZATION TECHNOLOGY
SESSION APPROVED :	XX	DESCRIPTION:	
SESSION FUNDED :	XX		
STATUS :	OPERATIONAL		This 2-year project will study and disseminate timber processing and utilization

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

COUNTRY:	CHINA	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 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.
AGENCY:	CRIWI	
ITTO BUDGET (US\$):	214,798.00	
STARTING YEAR:	1996	To complete the project, a workshop/seminar will be convened to further disseminate its results.
PROJECT:	PD005/92 Rev.4 (I)	TITLE: ESTABLISHMENT OF A CENTRE FOR THE PROMOTION OF LESSER-KNOWN TROPICAL HARDWOOD SPECIES IN EUROPE
SESSION APPROVED:	XXI	
SESSION FUNDED:		DESCRIPTION:
STATUS:	PENDING FINANCE	
COUNTRY:	CAMEROON	This 3-year project will establish a Center for the promotion of Cameroonian and other African hardwoods in selected European countries (France, Italy and Spain). The project activities include: (i) the setting-up (in Bourdeaux, France) and administration of the promotion Center, including a warehouse; (ii) promotional activities, which include preparation and dissemination of technical information organization of trade promotion seminars, and sale of 600 cubic meters of lesser known species for trial processing by timber industries in the participating countries; and (iii) the formulation of a plan to establish the promotion Center on a continuing basis.
AGENCY:	ONADEF	
ITTO BUDGET (US\$):	976,500.00	
STARTING YEAR:		Upon project completion, promotion activities will have resulted in 30-45 trials carried out by European industries, and some of these are expected to lead to industry decisions to utilize the tested species on a regular commercial basis, resulting in increased trade in these species.
PROJECT:	PD007/94 Rev.3 (M,I)	TITLE: INFORMATION AND TECHNICAL ASSISTANCE FOR PRODUCTION AND TRADE ON TROPICAL TIMBER
SESSION APPROVED:	XXII	
SESSION FUNDED:	XXII	DESCRIPTION:
STATUS:	PENDING CONTRACT	
COUNTRY:	BRAZIL	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. The project's specific objectives are: (1) 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 (2) 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.
AGENCY:	SINDIMAD in cooperation with IBAMA	
ITTO BUDGET (US\$):	1,028,625.00	
STARTING YEAR:		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)	TITLE: III PLYWOOD AND TROPICAL TIMBER INTERNATIONAL CONGRESS
SESSION APPROVED:	XXII	
SESSION FUNDED:	XXIII	DESCRIPTION:
STATUS:	OPERATIONAL	
COUNTRY:	GLOBAL	This six-month project planned and convened in Belem, Brazil, an international congress on plywood and tropical timber. The conference focused on sustainable development of the timber industry. The conference work was organized in three sessions, covering forestry issues, timber industrialization, and market and economics.
AGENCY:	ABIMCI/AIMEX	
ITTO BUDGET (US\$):	202,560.00	Three hundred participants from the timber industry, government and conservation NGOs attended the congress, convened in November 1997.
STARTING YEAR:	1997	
PROJECT:	PD011/96 Rev.2 (I)	TITLE: STRENGTHENING AND DEVELOPMENT OF NON CONVENTIONAL JOINERY TECHNOLOGY WITHIN THE CORPORATION FOR TIMBER PRODUCTION DEVELOPMENT IN THE COLOMBIAN PACIFIC REGION (CDP)
SESSION APPROVED:	XXI	
SESSION FUNDED:		DESCRIPTION:
STATUS:	PENDING FINANCE	
COUNTRY:	COLOMBIA	In this 3-year project the Colombian Corporation for Timber Development in the Pacific

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

AGENCY:	CDP	region (CDP) will design and organize 12 training courses in the areas of (i) wood technology, (ii) wood finishing, (iii) non-conventional joinery, (iv) maintenance of cutting tools, (v) construction of wooden houses, (vi) industrial management principles, (vii) primary processing of wood, and (viii) community organization leadership. A total of 850 participants are to be trained in these courses, of which 540 will be in Santiago de Cali, 140 in Vereda Guacari (Lopez de Micay), and 170 in Buenaventura.
ITTO BUDGET (US\$):	540,500.00	
STARTING YEAR:		The training program will focus on simple low-investment, labor intensive production systems (EBNOC non-conventional joinery and UNIDO - type wooden house construction), mostly using timber shorts and other wood residues of the primary processing industries. The program has been designed to provide training for under-privileged social groups of southwest Colombia, particularly blacks and females.
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PROJECT:	PD012/87 (I)	TITLE: RESEARCH ON UTILIZATION OF TROPICAL TIMBER IN CONSTRUCTION
SESSION APPROVED:	III	
SESSION FUNDED:	VIII	DESCRIPTION:
STATUS:	OPERATIONAL	This project consists of a research program in timber housing construction being carried out by the Forest Research Institute of Malaysia, to increase and improve the utilization of timber in housing and building construction in the country. Research emphasis is on timber use and performance in load bearing applications. Expected outputs include several technical papers, manuals and design guides.
COUNTRY:	MALAYSIA	
AGENCY:	FRIM	
ITTO BUDGET (US\$):	273,884.00	
STARTING YEAR:	1990	
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PROJECT:	PD013/95 Rev.3 (I)	TITLE: CAPACITY BUILDING IN TRAINING IN PLANNING AND MANAGEMENT OF FOREST INDUSTRIES IN ITTO PRODUCER MEMBER COUNTRIES
SESSION APPROVED:	XX	
SESSION FUNDED:	XXII	DESCRIPTION:
STATUS:	OPERATIONAL	This 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".
COUNTRY:	GLOBAL	
AGENCY:	FTP	
ITTO BUDGET (US\$):	1,090,000.00	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 institute performance, assessments of training needs, and three regional workshops. Development plans for four selected institutes will be prepared.
STARTING YEAR:	1997	Phase II (pending finance) 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.
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PROJECT:	PD015/96 Rev.2 (M,I)	TITLE: UTILIZATION, COLLECTION AND TRADE OF TROPICAL NON-WOOD FOREST PRODUCTS IN THE PHILIPPINES
SESSION APPROVED:	XX	
SESSION FUNDED:	XX	DESCRIPTION:
STATUS:	OPERATIONAL	This 3-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.
COUNTRY:	PHILIPPINES	
AGENCY:	FPRDI	
ITTO BUDGET (US\$):	345,196.00	The project will also identify problems forest dwellers face in their trade and recommend and introduce appropriate improved methods of collection, processing and storage.
STARTING YEAR:	1997	

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

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)	TITLE :	STRATEGIC PLAN FOR THE UPGRADING OF THE INDUSTRIAL FORESTRY INFRASTRUCTURE OF PANAMA
SESSION APPROVED :	XXIII		
SESSION FUNDED :	XXIII	DESCRIPTION:	
STATUS :	PENDING AGREEMENT		The project will prepare a strategic plan to promote the development of forest industries of Panama. To formulate the plan, the project will analyze existing information on forest industries in Panama; analyze the current status of the industrialization process in the country; and organize and convene two workshops for consultation and discussion of results.
COUNTRY:	PANAMA		
AGENCY:	INRENARE		
ITTO BUDGET (US\$) :	58,975.00		
STARTING YEAR :			
PROJECT:	PD017/92 Rev.4 (I)	TITLE :	TECHNOLOGY TRANSFER/COMMERCIALIZATION OF SELECTED COCOWOOD UTILIZATION TECHNOLOGIES
SESSION APPROVED :	XV		
SESSION FUNDED :	XV	DESCRIPTION:	
STATUS :	OPERATIONAL		This project will promote technologies for processing and commercialization of cocowood materials for the production of housing components, furniture and other higher value-added products in the Philippines and other Asia/Pacific countries. It will review and update existing know-how on cocowood processing and utilization developed at the Forest Products Research and Development Institute to implement a technology transfer/commercialization program, including at least five pilot technologies for which feasibility studies will be made and relevant equipment produced and tested.
COUNTRY:	PHILIPPINES		
AGENCY:	FPRDI		
ITTO BUDGET (US\$) :	766,983.00		
STARTING YEAR :	1994		
PROJECT:	PD017/93 Rev.3 (M,F,I)	TITLE :	ITTO NETWORK FOR INFORMATION SHARING AND PROJECT SUPPORT
SESSION APPROVED :	XIV		
SESSION FUNDED :	XIV	DESCRIPTION:	
STATUS :	OPERATIONAL		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 the world tropical timber situation.
COUNTRY:	GLOBAL		
AGENCY:	ITTO		
ITTO BUDGET (US\$) :	2,526,000.00		
STARTING YEAR :	1994		
PROJECT:	PD020/95 Rev.2 (I)	TITLE :	CHEMICAL MODIFICATION OF BAMBOO CULMS AND THEIR RESISTANCE TO WEATHERING
SESSION APPROVED :	XVIII		
SESSION FUNDED :	XVIII	DESCRIPTION:	
STATUS :	OPERATIONAL		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 (<i>Bambusa sinospinosa</i> , <i>Phyllostachys pubescentis</i> , <i>Phyllostachys bambusoides</i> , <i>Pseudosasa amabilis</i> , <i>Sinocalamus latiflorus</i>). 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.
COUNTRY:	CHINA		
AGENCY:	INSTITUTE OF BOTANY, CHINESE ACADEMY OF SCIENCE		
ITTO BUDGET (US\$) :	83,345.00		
STARTING YEAR :	1996		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

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

applications of the various chemical treatments and modified bamboos.

PROJECT:	PD021/95 Rev.2 (I)	TITLE :	COMPREHENSIVE STUDIES OF THE STRUCTURE AND PROPERTIES OF RATTANS FOR EFFECTIVE UTILIZATION
SESSION APPROVED :	XVIII		
SESSION FUNDED :	XVIII	DESCRIPTION:	
STATUS :	OPERATIONAL		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.
COUNTRY:	CHINA		
AGENCY:	INSTITUTE OF BOTANY, CHINESE ACADEMY OF SCIENCE		
ITTO BUDGET (US\$) :	88,620.00		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.
STARTING YEAR :	1996		
PROJECT:	PD024/95 Rev.1 (I)	TITLE :	THE IDENTIFICATION, PROPERTIES AND USES OF THE TROPICAL TIMBER IMPORTED TO CHINA FROM LATIN AMERICA
SESSION APPROVED :	XIX		
SESSION FUNDED :	XXI	DESCRIPTION:	
STATUS :	OPERATIONAL		This project will 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. Technical information on Latin American species will be compiled and disseminated (in Chinese) to potential importers and users of tropical timber.
COUNTRY:	CHINA		
AGENCY:	CRIWI		
ITTO BUDGET (US\$) :	112,000.00		
STARTING YEAR :	1997		
PROJECT:	PD031/96 Rev.2 (M,F,I)	TITLE :	INTRODUCING MYANMAR'S LESSER-KNOWN TIMBER SPECIES TO THE WORLD MARKET
SESSION APPROVED :	XX		
SESSION FUNDED :	XXI	DESCRIPTION:	
STATUS :	OPERATIONAL		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.
COUNTRY:	MYANMAR		
AGENCY:	FOREST DEPARTMENT OF MYANMAR		
ITTO BUDGET (US\$) :	495,533.50		
STARTING YEAR :	1997		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)	TITLE :	IMPACTS OF INCREASED UTILIZATION OF LESSER-USED SPECIES (LUS)
SESSION APPROVED :	XIX		
SESSION FUNDED :	XIX	DESCRIPTION:	
STATUS :	OPERATIONAL		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.
COUNTRY:	GHANA		
AGENCY:	MINISTRY OF LANDS AND FORESTRY		
ITTO BUDGET (US\$) :	138,205.00		
STARTING YEAR :	1997		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

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

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)	TITLE : WORKSHOP ON NONDESTRUCTIVE TESTING OF TROPICAL TIMBER
SESSION APPROVED :	XX	DESCRIPTION:
SESSION FUNDED :	XXII	
STATUS :	PENDING AGREEMENT	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.
COUNTRY:	GLOBAL	
AGENCY:	FPRDI	
ITTO BUDGET (US\$) :	139,788.00	
STARTING YEAR :	1997	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:	PD033/97 Rev.2 (I)	TITLE : IDENTIFICATION AND NOMENCLATURE OF COMMERCIAL TROPICAL TIMBER SPECIES IN THE ANDEAN COMMUNITY - PHASE II
SESSION APPROVED :	XXIII	DESCRIPTION:
SESSION FUNDED :		
STATUS :	PENDING FINANCE	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.
COUNTRY:	PERU	
AGENCY:	INIA	
ITTO BUDGET (US\$) :	733,225.00	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.
STARTING YEAR :		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:	PD037/94 Rev.3 (I)	TITLE : STRENGTHENING OF THE FOREST PRODUCTS LABORATORY OF IBAMA
SESSION APPROVED :	XX	DESCRIPTION:
SESSION FUNDED :	XXII	
STATUS :	OPERATIONAL	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.
COUNTRY:	BRAZIL	
AGENCY:	IBAMA	
ITTO BUDGET (US\$) :	556,073.00	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.
STARTING YEAR :	1997	Timber identification and standardization activities include the preparation of

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

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 prepared 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.3 (I)	TITLE :	RESEARCH AND DEVELOPMENT IN ENERGY ALTERNATIVE FROM BIOMASS (WOOD AND AGRICULTURAL RESIDUES) THROUGH BRIQUETTING, GASIFICATION AND DIRECT COMBUSTION
SESSION APPROVED :	XVIII		
SESSION FUNDED :	XVIII		
STATUS :	OPERATIONAL	DESCRIPTION:	
COUNTRY:	MALAYSIA		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.
AGENCY:	FRIM		
ITTO BUDGET (US\$) :	1,390,195.00		
STARTING YEAR :	1997		
			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 life.

PROJECT:	PD046/96 Rev.2 (I)	TITLE :	ESTABLISHMENT OF A WOOD WORKERS AND CRAFTSMANSHIP VILLAGE
SESSION APPROVED :	XXII		
SESSION FUNDED :	XXII	DESCRIPTION:	
STATUS :	OPERATIONAL		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.
COUNTRY:	GHANA		
AGENCY:	FURNITURE & WOOD PRODUCTS ASSOC/TEDB		
ITTO BUDGET (US\$) :	486,355.00		
STARTING YEAR :	1997		
			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:	PD047/88 Rev.3 (I)	TITLE :	UTILIZATION OF LESSER USED SPECIES AS ALTERNATIVE RAW MATERIALS FOR FOREST-BASED INDUSTRIES
SESSION APPROVED :	XI		
SESSION FUNDED :	XI	DESCRIPTION:	
STATUS :	OPERATIONAL		This 5-year project is promoting the utilization of 20-24 lesser-known species from the Philippines through research and dissemination of information on wood characteristics and technical properties, as well as by manufacturing and testing selected products.
COUNTRY:	PHILIPPINES		
AGENCY:	FPRDI		
ITTO BUDGET (US\$) :	763,992.60		
STARTING YEAR :	1993		

PROJECT:	PD047/94 Rev.3 (I)	TITLE :	INDUSTRIAL UTILIZATION OF LESSER-KNOWN FOREST SPECIES IN SUSTAINABLY MANAGED FORESTS
SESSION APPROVED :	XIX		
		DESCRIPTION:	

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

SESSION FUNDED :	XIX	
STATUS :	OPERATIONAL	
COUNTRY:	HONDURAS	
AGENCY:	COHDEFOR	
ITTO BUDGET (US\$) :	735,335.00	This 3-year project will implement 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 COHDEFOR within the Broadleaved Forest Development Project (BFDP), supported by the Canadian International Development Agency (CIDA).
STARTING YEAR :	1996	The ecological research will include basic forest ecology studies as well as assessments of impact of expanded harvesting in forest regeneration, soils, biodiversity and water resources, and non-wood products potential. Appropriate, low-impact harvesting technologies will be studied and included in a field handbook designed to disseminate these techniques, and recommended silvicultural practices to the local farmers.
		Another practical handbook will be prepared containing information to improve timber processing, particularly sawing and drying. Literature studies and laboratory and industrial trials will also be carried out to assist determination of end-uses, taking into account national and external markets. A market promotion program will be designed and implemented.
		A training program will be implemented along with the project research and studies. Eight hundred farmers will receive training on sustainable forest management and use of forest resources. In addition, two hundred workers and technicians from the Cooperative and participating industries will be trained on appropriate harvesting and processing technologies.

PROJECT:	PD058/97 Rev.1 (I)	TITLE : THE ESTABLISHMENT OF THE DATABASE OF TROPICAL INDUSTRIAL LESSER USED WOOD SPECIES
SESSION APPROVED :	XXIII	
SESSION FUNDED :	XXIII	
STATUS :	OPERATIONAL	
COUNTRY:	GLOBAL	
AGENCY:	ITTO	
ITTO BUDGET (US\$) :	502,032.00	DESCRIPTION:
STARTING YEAR :	1997	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.

PROJECT:	PD073/89 (M,F,I)	TITLE : ASSISTANCE FOR PROJECT IDENTIFICATION AND FORMULATION
SESSION APPROVED :	VII	
SESSION FUNDED :	VII	
STATUS :	OPERATIONAL	
COUNTRY:	GLOBAL	
AGENCY:	ITTO	
ITTO BUDGET (US\$) :	1,573,400.00	DESCRIPTION:
STARTING YEAR :	1990	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)	TITLE : INTEGRATION OF FOREST-BASED DEVELOPMENT IN THE WESTERN AMAZON, PHASE II - TECHNOLOGY FOR SUSTAINABLE UTILIZATION OF RAW FOREST MATERIALS
SESSION APPROVED :	X	
SESSION FUNDED :	X	
STATUS :	OPERATIONAL	
COUNTRY:	BRAZIL	
AGENCY:	FUNTAC	
ITTO BUDGET (US\$) :	1,875,000.00	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

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

STARTING YEAR :	1993	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)	TITLE : STRATEGIES FOR SUSTAINABLE WOOD INDUSTRIES IN SARAWAK
SESSION APPROVED :	IX	DESCRIPTION:
SESSION FUNDED :	XII	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.
STATUS :	OPERATIONAL	
COUNTRY:	MALAYSIA	
AGENCY:	FORESTRY DEPARTMENT, SARAWAK	
ITTO BUDGET (US\$) :	462,577.50	
STARTING YEAR :	1992	
PROJECT:	PD109/90 Rev.4 (I)	TITLE : ASSISTANCE TO MODERNIZATION, RESTRUCTURING AND DEVELOPMENT OF WOOD-BASED INDUSTRIES IN COTE D'IVOIRE
SESSION APPROVED :	XII	DESCRIPTION:
SESSION FUNDED :	XII	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.
STATUS :	OPERATIONAL	
COUNTRY:	COTE D'IVOIRE	
AGENCY:	SODEFOR	
ITTO BUDGET (US\$) :	680,400.00	
STARTING YEAR :	1994	
PROJECT:	PD143/91 Rev.2 (I)	TITLE : NON-WOOD TROPICAL FOREST PRODUCTS: PROCESSING, TRADE AND COLLECTION
SESSION APPROVED :	X	DESCRIPTION:
SESSION FUNDED :	X	This 2-year project is studying the non-wood forest products of a selected pilot tropical forest area (Tapajos National Forest) in Santarem in the East Brazilian Amazon. The project is surveying both existing and potentially important commercial products and assessing their role in the local and regional economies. The project also focuses on assessment of further processing possibilities with the objective of adding value to products which are traded by the local communities with little or no processing at all.
STATUS :	OPERATIONAL	
COUNTRY:	BRAZIL	
AGENCY:	FUNATURA and IBAMA	
ITTO BUDGET (US\$) :	374,000.00	
STARTING YEAR :	1993	
PROJECT:	PD179/91 Rev.2 (I)	TITLE : INDUSTRIAL UTILIZATION AND IMPROVED MARKETING OF SOME GHANAIAN LESSER-USED TIMBER SPECIES FROM SUSTAINABLY MANAGED FORESTS
SESSION APPROVED :	XII	DESCRIPTION:
SESSION FUNDED :	XII	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.
STATUS :	OPERATIONAL	
COUNTRY:	GHANA	
AGENCY:	FORIG	
ITTO BUDGET (US\$) :	985,273.00	
STARTING YEAR :	1993	
PROJECT:	PD209/91 Rev.2 (I)	TITLE : STUDY OF ZAIRIAN TIMBER WITH A VIEW TO PROMOTING CERTAIN SPECIES
SESSION APPROVED :	XII	DESCRIPTION:
SESSION FUNDED :	XII	

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

STATUS :		<p>This 5-year project will contribute to restructuring and strengthening the Zairian Center for Timber Promotion and assist with the implementation of research and marketing activities to promote the utilization and trade of Zairian lesser-known species. The activities include: (i) the renovation and equipping of CTP office and laboratory facilities; (ii) collection and information on Zairian species and establishment of a data bank; (iii) implementation of basic research on wood anatomy and mechanical strength; (iv) on-the-job training of Zairian staff on timber technology, marketing and data bank operations; (v) organization of market promotion events in major domestic outlets; and (vi) organization of overseas promotion missions and participation in international timber fairs.</p> <p>Contractual arrangements for project implementation were finalized in February 1993. The implementing agency has been notified that ITTO is holding consultations with the donor country concerning the disbursement of project funds to allow project commencement.</p>
COUNTRY:	ZAIRE	
AGENCY:	CENTER FOR TIMBER PROMOTION	
ITTO BUDGET (US\$) :	695,116.00	
STARTING YEAR :		
PROJECT:	PPD002/92 Rev.1 (I)	TITLE : SUSTAINABLE DEVELOPMENT OF THE PLYWOOD INDUSTRY IN LATIN AMERICA
SESSION APPROVED :	XII	
SESSION FUNDED :	XV	DESCRIPTION:
STATUS :	OPERATIONAL	<p>This pre-project is conducting a survey to provide updated information on the structure of the Latin American/ Caribbean Plywood Industry. The study will analyze and make available information on location, raw material supply, production capacity, technology, employment, markets, etc., which are essential for planning further development of the plywood sector, particularly in a region where the industry has not developed as expected due to financial and marketing constraints.</p>
COUNTRY:	BRAZIL	
AGENCY:	ABIMCE	
ITTO BUDGET (US\$) :	115,500.00	
STARTING YEAR :	1996	
PROJECT:	PPD002/96 Rev.2 (I)	TITLE : DEVELOPMENT OF THE INDIAN RUBBERWOOD INDUSTRY
SESSION APPROVED :	XX	
SESSION FUNDED :	XX	DESCRIPTION:
STATUS :	OPERATIONAL	<p>The pre-project's development objective is to promote greater utilization of rubberwood in India.</p> <p>The pre-project will carry out studies on the present status of the rubberwood industry in India with a view to assessing its development potential, identify existing problems, and determine its technical assistance needs and thereby developing a project proposal for the integrated development of the Indian rubberwood industry components.</p>
COUNTRY:	INDIA	
AGENCY:	INDIAN RUBBERWOOD TASK FORCE	
ITTO BUDGET (US\$) :	58,025.00	
STARTING YEAR :	1997	
PROJECT:	PPD007/94 (I)	TITLE : PROJECT FOR THE ESTABLISHMENT OF THE AIMA FOREST CORPORATION - CORFOAIMA
SESSION APPROVED :	XVII	
SESSION FUNDED :	XVII	DESCRIPTION:
STATUS :	COMPLETED	<p>This pre-project carried out the technical studies on the operation of a forest enterprise (CORFOAIMA) established to implement afforestation, reforestation and sustainable forest management activities in Ecuador.</p> <p>The pre-project studied and defined forest areas for CORFOAIMA's, and assessed the technical and financial feasibility of afforestation, forest management and processing/marketing activities. The studies led to the conclusion that CORFOAIMA's activities, with forest areas in the province of Esmeraldas, would be technically and economically feasible, as long as forestry operations are integrated with manufacturing (sawmill and joinery/furniture mill).</p> <p>The pre-project final report executive summary is reproduced in document PPR 46/97 (I). The full report on the feasibility studies is available from the ITTO secretariat.</p>
COUNTRY:	ECUADOR	
AGENCY:	AIMA	
ITTO BUDGET (US\$) :	101,491.00	
STARTING YEAR :	1996	
PROJECT:	PPD007/96 Rev.1 (I)	TITLE : UPGRADING PRODUCTION EFFICIENCY IN FURNITURE MANUFACTURING
SESSION APPROVED :	XX	
SESSION FUNDED :	XX	DESCRIPTION:
STATUS :	COMPLETED	<p>The pre-project reviewed the current situation of furniture manufacturing in Myanmar and</p>

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

COUNTRY:	MYANMAR	formulated a project proposal to design a strategy and prepare an action plan for improving productivity in furniture manufacturing in Myanmar.
AGENCY:	MYANMAR TIMBER ENTERPRISE	
ITTO BUDGET (US\$) :	57,497.50	The pre-project reviewed the furniture industry situation in Myanmar, including the manufacturing, marketing and markets, and management aspects. The results of the review as well as recommendations to increase efficiency of furniture manufacturing in Myanmar are included in the final pre-project report, reproduced in document PPR 45/97 (I).
STARTING YEAR :	1996	The study's main recommendations are: (i) establishment of national furniture testing and training centers; (ii) implementation of research and development activities to introduce lesser known species and reduce dependence on teak; (iii) encouragement of private sector small and medium industries; (iv) establishment of a national furniture board; (v) increase cooperation with relevant organizations of neighboring countries; (vi) explore joint venture and partnerships with foreign companies; and (vii) promote furniture components and KD furniture as a first step in export market ventures.
PROJECT:	PPD011/92 (I)	TITLE : REVIEWING AND PREPARING SUPPORTING DOCUMENTS FOR WORK ON GUIDELINES FOR THE DEVELOPMENT OF SUSTAINABLE FOREST INDUSTRIES
SESSION APPROVED :	XIII	
SESSION FUNDED :	XIV	
STATUS :	OPERATIONAL	DESCRIPTION:
COUNTRY:	GLOBAL	This pre-project is providing funds for consultancy services and expert meetings and other assistance required by the Permanent Committee on Forest Industry in its work to prepare the ITTO Guidelines for the Development of Sustainable Forest Industries.
AGENCY:	ITTO	
ITTO BUDGET (US\$) :	277,810.00	
STARTING YEAR :	1993	
PROJECT:	PPD012/96 Rev.1 (I)	TITLE : DEVELOPMENT AND IMPLEMENTATION OF STRESS GRADING RULES FOR TROPICAL TIMBER
SESSION APPROVED :	XXI	
SESSION FUNDED :	XXI	DESCRIPTION:
STATUS :	OPERATIONAL	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 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.
COUNTRY:	PHILIPPINES	
AGENCY:	FPRDI	
ITTO BUDGET (US\$) :	50,957.00	
STARTING YEAR :	1997	
PROJECT:	PPD015/95 Rev.2 (I)	TITLE : GHANA SEMINAR TO PREPARE AND APPROVE PROJECTS FOR NETWORKED RESEARCH INTO THE PROCESSING, UTILIZATION AND MARKETING OF SMALL DIAMETER TIMBER FROM PLANTATIONS IN AFRICA
SESSION APPROVED :	XIX	
SESSION FUNDED :	XX	
STATUS :	COMPLETED	DESCRIPTION:
COUNTRY:	GHANA	This pre-project convened a seminar in Ghana which focused on increasing the utilization and marketing of products from plantation grown timber. Project proposals were formulated in three subject areas: (i) more efficient utilization of small diameter logs; (ii) further manufactured production from sawnwood from small plantation grown trees; and (iii) utilization of residues from processing of small plantation grown logs. The seminar participants discussed the role that plantation grown timber can play and the relevance of the three research projects to the wood industry. Effective organization and the development of mechanisms to maintain a network on processing, utilization and marketing of small diameter timber was one of the major objectives of the seminar.
AGENCY:	FORIG	
ITTO BUDGET (US\$) :	39,169.42	
STARTING YEAR :	1996	
PROJECT:	PPD018/96 Rev.2 (I)	TITLE : FORMULATION OF A GENERAL PLAN FOR THE INDUSTRIALIZATION OF TIMBER PRODUCTION IN GABON IN COMPLIANCE WITH THE SUSTAINABLE FOREST MANAGEMENT STANDARDS
SESSION APPROVED :	XXI	
SESSION FUNDED :	XXI	
STATUS :	OPERATIONAL	DESCRIPTION:
COUNTRY:	GABON	This pre-project proposal will formulate a global strategy and action plan to promote further industrialization of the timber sector in Gabon, taking into account the provisions

FOREST INDUSTRY PROJECTS AND PRE-PROJECTS

AGENCY:	MINISTRY OF FORESTRY	of the government's new policy in the sector and the policy on the sustainable management of Gabonese forests.
ITTO BUDGET (US\$) :	94,001.00	
STARTING YEAR :	1997	

PROJECT:	PPD050/91(I)	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"
SESSION APPROVED :	XI		
SESSION FUNDED :	XI		
STATUS :	OPERATIONAL		
COUNTRY:	ZAIRE	DESCRIPTION:	
AGENCY:	ITTO		
ITTO BUDGET (US\$) :	44,000.00		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: (a) assess the wood production situation in Zaire, including the status and prospects for utilization and promotion of lesser-used species; (b) on the basis of the findings of activity (a) 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; (c) 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.
STARTING YEAR :	1992		

PROJECT:	PPD009/93 (I)	TITLE :	EXPANSION OF THE PRODUCTION CAPABILITY OF SMALL-MEDIUM SCALE FURNITURE MANUFACTURERS FOR THE PURPOSE OF INCREASING MALAYSIA'S EXPORT OF VALUE-ADDED TIMBER PRODUCTS
SESSION APPROVED :	XV		
SESSION FUNDED :	XV		
STATUS :	COMPLETED	DESCRIPTION:	
COUNTRY:	MALAYSIA		
AGENCY:	MTIB		This pre-project studied the Malaysian production of furniture and furniture parts for export to consumer markets in Asian countries. The study focused on Malaysian small and medium scale furniture industries and on possible subcontracting arrangements that could be encouraged with overseas partners in Taiwan, province of China, and Japan.
ITTO BUDGET (US\$) :	62,760.00		The pre-project produced two main reports: (i) Production Management of Small and Medium Furniture Industries, and (ii) Furniture Market Opportunities for Small and Medium Industries. The studies reviewed the situation of small and medium scale furniture industries in Malaysia and reviewed the Malaysia's export performance in Japan, Taiwan, province of China, United States of America, France and Germany.
STARTING YEAR :	1995		The final pre-project report, reproduced in document PPR 47/97 (I), includes a set of recommendations to improve manufacturing and export of Malaysian furniture. The pre-project results and recommendations were discussed in a seminar attended by 75 Malaysian government and forest industry professionals.

ANNEX 2
Status of Members as at 31 December 1997
(ITTA, 1994)

<u>Member</u>	<u>Signature</u> <u>Provisional</u> <u>Definitive (d)</u>	<u>Provisional</u> <u>application</u>	<u>Ratification,</u> <u>Accession (a),</u> <u>Acceptance (A),</u> <u>Approval (AA)</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	
Congo	22 Jun 1994	25 Oct 1995	
Cote d'Ivoire	9 Sep 1996	9 Sep 1996	31 Jan 1997
Democratic Republic of the 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		
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	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 Korea	12 Sep 1995		12 Sep 1995
Russian Federation	12 Sep 1995		12 Sep 1995
Spain	12 Jan 1996	12 Jan 1996	15 Jan 1997
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)
United Kingdom	13 May 1996	13 May 1996	
United States of America	1 Jul 1994		14 Nov 1996 (A)

ANNEX 3

1997 ITTO Publications

General Information

1. GI-6 Annual Report 1996
2. GI-7 Annual Review and Assessment of the World Timber Situation 1996
3. GI-8 Reports of the Sessions of the International Tropical Timber Council and Committees on Economic Information and Market Intelligence (CEM), Reforestation and Forest Management (CRF), Forest Industry (CFI) and Finance and Administration (CFA):
 - ITTC(XXI) & PC (XIX) - Yokohama, Japan, November 1996
 - ITTC(XXII) & PD (XXI) - Santa Cruz de la Sierra, Bolivia, May, 1997

ITTO Policy Development Series

4. PS-6 ITTO Guidelines on Fire Management in Tropical Forests

Pre-Project Reports

5. PPR 42/97 (F) Biotechnology and the Sustainable Production of Tropical Timber - Desk Study
6. PPR 8/94 Rev.2 (F) Manual para la producción de MASCAREY, EUCALIPTO, TECA, PINO, MELINA, LAUREL, PACHACO, ALISO, NOGAL, GUAYACAN, BLANCO (Ten small booklets)

Project Reports

7. PD 120/91 Rev.4 (F) Compartments Record Book for Lingkabau Forest Reserve Forest Management Unit No.3 Kota Marudu, Part B
8. PD 128/91 Rev.2 (F) Plan de Ordenamiento de los manglares de Panamá, Énfasis en Chame, Chiriquí y Azuero, PANAMA - 1997
9. PD 128/91 Rev.2 (F) Plan de Acción para las áreas de manglares de Chame, Azuero y Chiriquí, PANAMA - 1997
10. PD 171/91 Rev.2 (F) Diagnostico y zonificación preliminar de los manglares Pacifico de Colombia
11. PD171/91 Rev.1 (F) Diagnostico y zonificación preliminar de los manglares Pacifico de Colombia
12. PD 176/91 Rev.1 (F) Extracción Forestal de Bajo Impacto en la Mayronga Análisis comparativo de técnicas, impacto ambiental, regeneración natural y costos versus La Extracción Forestal Tradicional

Reports of Seminars, Workshops and other Meetings

- | | | |
|-----|--------|---|
| 13. | SRS-30 | Cocowood Utilization in the Philippines: A Compilation of Abstracts |
| 14. | SRS-31 | International Training Workshop on Tropical Forestry and Timber Trade Statistics, Kuala Lumpur, Malaysia, 14 April - 2 May 1997 |

Other Publications

- | | | |
|-----|-------|--|
| 15. | OP-21 | Restoration of Mangroves Ecosystems |
| 16. | OP-22 | Tree Flora of Sabah and Sarawak, Volume Two, edited by E. Soepadmo, K.M. Wong and L.G. Saw |
| 17. | OP-23 | World Mangrove Atlas |

ITTO Technical Series

- | | | |
|-----|-------|---|
| 18. | TS-15 | Timber Certification: Progress and Issues" by Baharuddin Haji Ghazali and Markku Simula |
|-----|-------|---|

ANNEX 4
Professional Members of the ITTO Secretariat
as at 31 December 1997

Dr. B.C.Y. Freezailah
Executive Director

Dr. Manoel Sobral Filho
Assistant Director
Forest Industry

Mr. Lachlan A.J. Hunter
Assistant Director
Management Services

Dr. Svend Korsgaard
Assistant Director
Reforestation and Forest Management

Mr. Michael Adams
Market Information Service Coordinator
Economic Information and Market Intelligence

Mr. Takeichi Ishikawa
Information Officer
Management Services

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

Ms. Catriona Preeble
Editor/Newsletter Coordinator
Forest Industry

Mr. Jairo Castaño Galvez
Systems Analyst

ANNEX 5

Contributions to the Special Account

	1997	1996
PRE-PROJECT SUB-ACCOUNT:		
AUSTRALIA	\$40,000.00	\$0.00
CANADA	\$0.00	\$19,635.97
DENMARK	\$138,479.00	\$0.00
JAPAN (*)	\$11,840,000.00	\$12,590,000.00
NORWAY	\$0.00	\$30,000.00
THE NETHERLANDS	\$91,708.00	\$0.00
UNITED KINGDOM	\$75,000.00	\$0.00
U.S.A.	\$272,344.00	\$0.00
PRIVATE - PILOT CLUB	\$0.00	\$946.53
PRIVATE - OTHERS	\$893.28	\$0.00
Total:	\$12,458,424.28	\$12,640,582.50

PROJECT SUB-ACCOUNT:

AUSTRALIA	\$135,000.00	\$71,500.00
DENMARK	\$200,000.00	\$0.00
FRANCE	\$24,371.52	\$0.00
JAPAN	\$753,000.00	\$6,028,836.00
JAPAN (Forestry Ag.)	\$1,007,468.23	\$1,036,304.50
REP. OF KOREA	\$100,000.00	\$10,000.00
THE NETHERLANDS	\$489,989.39	\$530,260.00
NORWAY	\$0.00	\$20,000.00
SWITZERLAND	\$2,081,454.24	\$3,113,832.65
UNITED KINGDOM	\$0.00	\$146,947.52
U.S.A.	\$313,000.00	\$262,000.00
COMMON FUND FOR COMMODITIES	\$419,404.32	\$381,116.52
JLIA	\$40,738.48	\$0.00
PRIVATE - ITO YOKADO CORP.	\$80,426.76	\$129,242.00
PRIVATE - OTHERS	\$34,088.29	\$37,669.25
Total:	\$5,678,941.23	\$11,767,708.44

(*) Part of funds were later allocated to Project Sub-Account.