

1. General approach

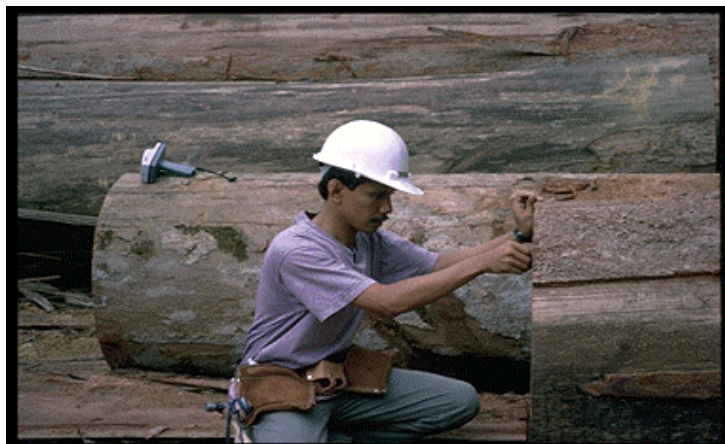
Reliable verification of compliance with the laws, regulations or norms that apply to the management and exploitation cycle of forest resources allow to protect the immediate economic interests of both Governments and private sector companies while ensuring the long-term conservation of essential resources and protection of vital ecosystems.

2. Experience in close relation to the specific project

2.1 Control of forest and timber trade activities

SGS has developed systems for tracking logs, inspecting them at critical control points and monitoring forest and timber trade activities. Independent verification and monitoring programmes, established in Papua New Guinea, Ecuador, Cameroon, Central African Republic and Congo (Brazzaville), enable SGS to monitor forest management, production, transport and/or exports of logs and processed wood products on behalf of the Government. Pilot projects have also been carried out in Ghana, Guyana and Thailand and a new project is being carried out in Indonesia.

The SGS Group has also developed considerable experience in developing and performing training courses. National capacity building and strengthening towards local institutions and employees has been an important element in most projects that are described hereafter. This is normally achieved through (a) programmes that include direct training courses and seminars and (b) continuous or final transfer of expertise and technology.



Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Auditing of a timber company's internal wood tracking system - and verification of the legal origin of its products		Country: Cameroon
Location within Country: Integrated forest management, logging, processing and export/local sales operations of the company in Cameroon		Professional Staff Provided by SGS (profiles): Project Director, Assessors/inspectors
Name of Client: Private (confidential)		N^o of Staff: 2 man month x 3 audits
Address: Douala, Cameroon		Duration of Assignment: 6 months, initially
Start Date (Month/Year): April 2003	Completion Date (Month/Year): November 2003	Approx. Value of Services (in Current US\$): US\$ 22,500
Name of Associated Consultants, If Any: N/A		Professional Staff Provided by Associated Consultants: N/A
Names of Senior Staff Involved and Functions Performed: Alain Verney, Back stopping; Marie-Chantal Pendoué; Project Director, Marcelin Tanga, Main Assessor; 1 Timber Grader; 1 local Forester		
Narrative Description of Project: The company wishes to credibly demonstrate the quality of its forest activities to a group of clients. To this end, the project aims to independently assess whether the company's internal wood tracking and data management systems can be relied upon to support the company's claims that its products and related activities comply with agreed 'legality/sustainability' criteria. This is achieved by undertaking auditing and verification checks into the relevant company's documentation/systems and field operations. Periodic assessments cover/include the following scope or activities: <ul style="list-style-type: none"> - relevant legal/technical documents including rights of access to the resources, maps and satellite images; - production records and regulatory declarations; processing yields; compliance with fiscal obligations; - sample tracking of logs and bundles of timber products from log/timber yards at ports and mills back to the forest log ponds and to stumps (within authorized boundaries) - tracing samples of logs/ timber bundles from stumps down to log/timber yards at ports and mills - compliance of logs and timber products with basic regulatory requirements (species, minimum diameters); - stakeholder consultations. Outputs: a confidential Audit Report (including factual findings and, possibly, recommendations), an Audit Schedule (describing the scope of the audit) and an Audit Statement which the company can then use for marketing purposes. Under relevant sampling and continuous auditing approaches, Statements could be extrapolated to the entire production or a particular fraction of it over a certain period of time or to the ongoing production. As a possible evolution of the service and if the scope of auditing encompasses a full set of relevant requirements, Statements of 'Verified Legal Origin' and 'Verified Legal Production' could be issued for timber products covered by the audit. Such statements could also be issued on demand for specific consignments if SGS has easy access to the relevant client's data.		
Description of Actual Services Provided by SGS's Staff: Independent third-party auditing, monitoring and verification.		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Technical Assistance to MINEF's 'Traceability Unit'		Country: Cameroon
Location within Country: Yaoundé and the whole territory of Cameroon		Professional Staff Provided by SGS (profiles): Project Director, IT Manager, Analyst, Trainer/ Assessor, Administrator
Name of Client: The Government of Cameroon, Ministry of Water and Forests (MINEF) with funding from DfID and MINEF and in association with Ministry of Finance (MINEFI)		N° of Staff: 5 full-time staff
Address: Yaoundé, Cameroon		Duration of Assignment: 2 years, renewable
Start Date (Month/Year): April 2003 (piloting phase) January 2004 (full force)	Completion Date (Month/Year): March 2005	Approx. Value of Services (in Current US\$): US\$ 270,000 per year
Name of Associated Consultants, If Any: N/A		Professional Staff Provided by Associated Consultants: N/A
Names of Senior Staff Involved and Functions Performed: Marie-Chantal Pendoué, Project Director; Alain Verney, Back stopping		
Narrative Description of Project: Under this 'log tracking' project, SGS will assist MINEF to establish and operate a separate government unit responsible for controlling log flows from forest sources (log ponds initially, then from stumps) up to ports and processing mills throughout the production chain. The project will include the following activities: <ul style="list-style-type: none"> - identify all logs/stumps with bar-coded tags allocated to legitimate logging companies according to agreed volumes of cut; - monitor log production and movements as declared by the logging companies (barcode No. used on regulatory declarations; crosschecking with utilization of the tags) and verified from spot checks including Government control on log yards and roadside and SGS's inspections at ports; manage central database; - carry out further field checks independently*; - pilot a computerized system and continuous auditing program to control log supplies to processing mills; - estimate the amount of felling and supply taxes due by industry and monitor processing quotas; - issue monthly/quarterly reports and statistics; - provide training to logging companies and PSRF* units and organize the 'transfer of technology'. <p>The project will complement/ reinforce the log export monitoring program run by SGS on behalf of MINEFI and could be seen as the second step in a modular approach to demonstrating that log exports from Cameroon are legally sourced and produced.</p> <p>(*) Field investigation is the responsibility of the joint MINEF/MINEFI PSRF ('Programme de Sécurisation des Recettes Forestières') units operating at checkpoints and mills and of the CCU (Central Control Unit) of MINEF (supplemented by the Independent Observer) in the forest. Note: field checks independently carried out or witnessed by SGS are given limited operating means initially and could be enhanced in future.</p>		
Description of Actual Services Provided by SGS's Staff: SGS is responsible for the design, development, installation, management and roll out of the log tracking system and service, as described above.		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Development and Pilot Testing of a Third-Party Wood Legality Verification and Tracking Program		Country: Indonesia
Location within Country: East Kalimantan Province. Also delivery yards for overseas of importers from Indonesia.		Professional Staff Provided by SGS (profiles): Project Director, Log Tracking Specialist, Forest Product Tracking Specialist, Forest Certification Auditor.
Name of Client: The Nature Conservancy (with financial assistance from USAid and UK DfID plus support from the Ministry of Forests)		N^o of Staff: 13 part time including SGS, URS Forestry and sub-consultants. Total 40 man-months.
Address: Jakarta, Indonesia		Duration of Assignment: 10 months
Start (Month/Year): June 2003	Date	Completion Date (Month/Year): April 2004
		Approx. Value of Services (in Current US\$): US\$ 0.4 million
Names of Associated Consultants, If Any: URS Forestry Tropical Forest Trust Forestech Research & Development Ltd		Professional Staff Provided by Associated Consultants URS Forestry: Project Manager, Training Specialist, GIS Specialist Tropical Forest Trust: Forest Auditor Forestech: IT Specialist
Names of Senior Staff Involved and Functions Performed: Bruce Telfer: Project Director & Wood Tracking Specialist. Dr. Kevin Grace: Log & Forest Product Tracking Specialist Salahudin Yaacob: Forest certification Auditor		
Narrative Description of Project: <p>It is widely accepted that illegal logging is threatening the future of Indonesia's forests. Governments (e.g. Indonesia, UK and other EU countries plus Japan and USA), importers, consumers and NGOs are seeking to eliminate the trade in illegal forest products. The threat to the Indonesian forest industry is clear. The difficulty for industry is a strong market perception that all Indonesian forest products are illegal. This is exacerbated by the fact that there is currently no agreed system for differentiating legal forest products and foreign buyers are daily becoming more nervous about any purchases from Indonesian sources.</p> <p>This project seeks to address the problem by developing a cost-effective method for certifying the legal origins of wood right through the supply chain, from forest to customer. This market driven response to the illegal logging problem can also be seen as a first step to ultimate Certification to standards such as the FSC.</p> <p>The key project components are: develop a working definition of legal wood origin; design a verification system (involving both forest/factory audits) plus wood tracking system; implement the system in 2 forest concessions and 2 factories; report on the outcomes and make recommendations for expanding the system throughout Indonesia.</p>		
Description of Actual Services Provided by SGS's Staff: SGS is the head contractor and is thus responsible for all the project outcomes. Specific services being provided by SGS:		
<ul style="list-style-type: none"> • develop a working definition of legal wood origin and production • design and implement system design for verification of legal wood and product production • design and implement wood tracking system from forest stump to foreign buyer (includes field and office software systems, databases etc) • draw up plans for major scaling up of the project to an operational level on the basis of lessons learnt from this pilot project. 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Forest Product Export Control Service		Country: Congo (Brazzaville)
Location within Country: Pointe Noire, local offices and border crossing points into Cameroon and Central African Republic. Also ports of final export from Cameroon.		Professional Staff Provided by SGS (profiles): Project Director, Technical Training Manager, plus local field and administrative staff
Name of Client: Government of the Republic of Congo, Ministry of Forest Economy and the Environment		N° of Staff: 57 full-time staff on average
Address: Pointe Noire, Republic of Congo		Duration of Assignment: 2 years, renewable
Start Date (Month/Year): August 2003	Completion Date (Month/Year): July 2005	Approx. Value/Cost of Services (in Current US\$): USD mio 2 p.a. Export Fee of 1% of FOB value, + Fcfa 650 per barcode tag
Name of Associated Consultants, If Any: N/A		Professional Staff Provided by Associated Consultants: N/A
Names of Senior Staff Involved and Functions Performed: Alain Verney, Project Director		
Narrative Description of Project: <p>Congo's Forest Law of 2000 provided the framework for setting up a National Forest Product Export Control Service. The government called upon the services of SGS to create and run this service during its start-up period, and then to possibly transfer it to the forest administration as a fully autonomous unit.</p> <p>The project physically verifies all exports of forest products (e.g: logs, sawnwood, non-timber products) and calculates the taxes due. It also provides an analysis of activity in the sector, especially of percentage of local processing of logs into primary wood products, which are subject to quota regulations.</p> <p>Teams of inspectors work throughout the country, especially at land borders and ports. Forest products are marked with a coded label, which identifies their origin and enables forest production to be estimated. The products are physically inspected for identification purposes and for the verification of quantity and quality, and export and transport documents are systematically checked and analysed. An inspection report, which is used to calculate export taxes (to be collected by Customs authorities), is generated for each export consignment. Statistics of forest product exports are supplied to the government administration on a regular basis. The project will employ 50 officers on secondment from the forest administration, whilst SGS will appoint 7 managers for supervision and training.</p>		
Description of Actual Services Provided by SGS's Staff: <p>SGS is responsible for the complete design, development, installation and operation of the inspection and monitoring service, as described above. Implementation also includes:</p> <ul style="list-style-type: none"> • Conduct of awareness campaign for all stakeholders: Government (National and Provincial), landowners and the forest industry. • System design for both field and office computing systems, including field software and database design for the development of a comprehensive forest data management and communication system. Reporting to Government. • Set-up of operations at strategic locations and provision of logistical support systems and training for inspectors operating at logging camps. 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: National Forest Control Service		Country: Ecuador
Location within Country: The whole territory of Ecuador (except Galapagos)		Professional Staff Provided by SGS: Project Director, Operations Manager, 2 Finance & Administrative Managers, 2 Technical Assistants, 1 Data Processing Officer, 1 HR Supervisor, 106 Foresters, 14 Regional Administrative Managers.
Name of Client: Government of Ecuador, Ministry of Environment		Nº of Staff: 130 full-time staff
Address: Quito, Ecuador		Duration of Assignment: 10 years
Start Date: January 2003	Completion Date: January 2013	Approx. Cost/Value of Services: US\$ 2.50 per m3 from native forests + US\$ 0.10 per m3 from plantations, US\$ 4 million per year on average for 3 million m3
Name of Associated Consultants, If Any: N/A		Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff Involved and Functions Performed: César Berni, Project Director		
Narrative Description of Project: The project aims to ensure that forest products are harvested legally and at a sustainable level. The monitoring and control function of Ecuador's forest sector has been outsourced to SGS as an independent verification company. Ecuador's "Modernisation of the State" programme, which includes delegating specific Government roles to private sector organisations, has yielded the legal framework for this contract. In the process, the Ministry of Environment changes its role from controller and tax collector to enforcement authority and facilitator of sound management. Taxes and service fees are to be collected by SGS for each cubic meter of logs and sawn timber authorised for extraction. Representatives of the police, army and civil society will participate at each checkpoint. The fee rates and the levels of administrative and operational infrastructure are to be adjusted annually to the volume of operation within the limits of agreed financial criteria.		
Description of Actual Services Provided by SGS's Staff: <ol style="list-style-type: none"> 1. Approval of management and harvesting plans; 2. Approval and issue of logging licences and timber transportation permits; 3. Collection of forest taxes; 4. Supervision of forest exploitation and the performance of forest stewards; 5. Monitoring of transportation of forest products; 6. Building and operation of a data network for the forest sector. <p>SGS Ecuador will provide the services out of 32 offices including 14 forest inspection units and also 12 road checkpoints and 6 mobile units as part of a log tracking system. SGS will perform documentary and random physical checks to verify compliance with relevant laws, regulations and best practice, and will issue reports of findings and professional opinions to inform decision-making and law enforcement. SGS will operate an on-line forest management information system linking the different units and the Ministry. The public will have access to reliable forest sector information on a dedicated website.</p>		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Demonstration of a Timber Tracking System for Monitoring Logs and Sawntwood Imports and Transit within Thailand		Country: Thailand
Location within Country: Mukdahan (border with Laos) and the Bangkok area		Professional Staff Provided by SGS (profiles): Timber Tracking Specialist
Name of Client: Royal Forestry Department (Public)		N° of Staff: 1
Address: Bangkok, Thailand		Number of Staff x months; Duration of Assignment: 5 man x days
Start Date (Month/Year): August 1999	Completion Date (Month/Year): September 2000 (demo phase)	Approx. Value of Services (in Current US\$): USD 11,000
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: John Barne, Technical Manager, Natural Resources Monitoring Services		
Narrative Description of Project: The objective of the log tracking system is to distinguish at all times legally-imported logs from those that have been produced illegally in Thailand. When the system is fully implemented, all logs in the country will be tagged with a uniquely-numbered bar-coded tag which links them back to the place and date of import and to the operator who imported them. In future the system will also be applied to processed wood products and logs from domestic plantations. The first phase of the project consists of demonstrating the tracking system and preparing the design specification for a pilot system. It is intended that during phase 2 of the project, a pilot program will be implemented for imports from Burma.		
Description of Actual Services Provided by SGS's Staff: SGS demonstrated its Logtrak system (currently in use in other tropical countries) to show the current capability of the system and to prepare for more detailed specification of RFD's log tracking requirements for the next stage of the project: <ul style="list-style-type: none"> • preliminary survey (conducted in 1998) • preparation of log monitoring procedures • demonstration of the system at source, transit checkpoint and destination • design of log and lumber declaration forms and volume tables • specification of user requirements for the computer system • design of instructions for using the log tracking computer system 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Log Tracking System Project (Pilot)		Country: Ghana
Location within Country: Accra and pilot forest area (Western Region, Asangkrangwa District)		Professional Staff Provided by SGS (profiles): Forest Management Specialist, Forest Monitoring Specialist
Name of Client: Ministry of Lands, Mines and Forests (Public)		N° of Staff: 2
Address: Accra, Ghana		Number of Staff x months; Duration of Assignment: 4 months over 10 months
Start Date (Month/Year): May 1999	Completion Date (Month/Year): March 2000 (pilot phase)	Approx. Value of Services (in Current US\$): USD 91,000
Name of Associated Consultants, If Any: Francis Odoom		N° of Months of Professional Staff Provided by Associated Consultants: 2
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Hichem Tabka (Local Project Director/Coordinator); John Barne, Team Leader		
Narrative Description of Project: As part of its Certification Project the project aims at developing and implementing a pilot system that provides the chain-of-custody required for tracking exported wood products back to the sawmill and ultimately to the forest from which the logs originate.		
Description of Actual Services Provided by SGS's Staff: Evaluating and reviewing Ghana's existing chain of custody system for timber. Designing and specifying the requirements for procuring a practical computerised system. Estimating the cost of installing and testing the system and preparing a list of possible suppliers. Conduct a pilot test of the log tracking system (manual & computerised). Training staff of Forestry Dept and private operators in operation of the system in the forest. Training senior forestry officials in Forest Management & Chain-of-Custody Certification.		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Forest Product Monitoring Project (Pilot)		Country: Guyana
Location within Country: Georgetown and concession areas		Professional Staff Provided by SGS (profiles): Senior Timber Tracking Specialist
Name of Client: DFID (British Aid Agency, Public)		N° of Staff: 1
Address: London, UK		Number of Staff x months; Duration of Assignment: 1.5 over 4 months
Start Date (Month/Year): Jan 1999	Completion Date (Month/Year): April 1999	Approx. Value of Services (in Current US\$): USD 40,000
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: John Barne, Timber Tracking Specialist		
Narrative Description of Project: A pilot project to test the practicality and cost of reorganising the way in which Guyana's forest operations are monitored and forest taxes calculated. The role of the Guyana Forestry Commission will change from one of measuring logs and processed wood products, to supervision of concessionaires and verification of their declarations. Logs will be tagged and tracked electronically and the sample of logs inspected by GFC staff individually checked against what the producer has declared.		
Description of Actual Services Provided by SGS's Staff: <ul style="list-style-type: none"> • prepare procedures and manuals • develop software and equipment • train GFC staff and concessionaires • execute pilot project • evaluate results of pilot project • report and recommendations 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Forest Sector Monitoring - Timber Tracking Programme Hallmark Programme		Country: Malaysia
Location within Country: Peninsular Malaysia Audited : Terengganu, Pahang and Selangor		Professional Staff Provided by SGS (profiles): SGS Malaysia Staff
Name of Client: Malaysian Timber Certification Council		N° of Staff: 4 full time staff
Address: Kuala Lumpur, Malaysia		Number of Staff x months; Duration of Assignment: 4 years
Start Date (Month/Year): Sept 1996	Completion Date (Month/Year): 2002 (on hold)	Approx. Value of Services (in Current US\$): USD 150,000 per year on average
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Co-ordinator, Team Leader) Involved and Functions Performed: Kevin Grace		
Narrative Description of Project: Hallmark Programme : The project was established in 1996 under a Joint Working Group between Malaysia and The Netherlands to promote phased approach towards forest certification by the year 2000. SGS has been appointed the auditing body to verify continual improvement of three state forestry departments (Pahang, Selangor and Terengganu) to the Malaysian Standard (MC&I). The programme allowed for material from those forest areas to be processed and traded by participating factories under an SGS (MY) chain of custody certificate to obtain an Hallmark Declaration in the Netherlands. The standard was not endorsed by the Netherlands Stichting Keurhout Foundation and was found to be inadequate to meet the minimum requirements of the Hallmark Programme. Thus the project stopped in Feb 2001 due to gaps between the 2 standards but started again in June 2001 under the previous Declaration system based on meeting. The states are now obliged to meet the MC&I requirements along with the Keurhout Conditions to continue the programme after 31 March 2002. Timber Tracking Programme : Newly developed programme to evaluate that timber is extracted according to legal requirements then audit the system to trace material from participating forest areas through processing for shipment to retailers. The programme has been formalized with requirements for both forest areas (FSM-004) and manufacturing companies (FSM-003a). Timber tracking certificates will be issued to manufacturers and forest areas that demonstrate compliance to the requirements. The Timber Tracking Certificate is subject to formal conditions for use (FSM-021). More information on www.sgs.com/my .		
Description of Actual Services Provided by SGS's Staff: Auditing of Forest Management practices and system for tracking of material through manufacturing to final retail.		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Export Verification Programme, logs and processed wood products		Country: Central African Republic (CAR)
Location within Country: Bangui and Berberati. Port of Douala in Cameroon.		Professional Staff Provided by SGS (profiles): Operations Co-ordinator, 10 local file managers and field inspectors (including staff in Cameroon)
Name of Client: Ministry of Finance, Govt of the Central African Republic (Public)		N° of Staff: 10 (on average)
Address: Bangui, CAR		Number of Staff x months; Duration of Assignment: 5 years to date
Start Date (Month/Year): Jan 1996	Completion Date (Month/Year): ongoing	Approx. Value of Services (in Current US\$): 1.10% of log & processed wood export value, approx USD 0.75 million per year on average
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Christelle Girard, Contract Manager; Alain Verney, Operations Manager		
Narrative Description of Project: A project to verify all log and processed wood exported from the Central African Republic (CAR) through the port of Douala (Cameroon). Volume and species declarations made by exporters are checked against a sample of independent inspections carried out at the port. Based upon the taxable value determined by SGS, the tax payable is adjusted as necessary and the products can be shipped. SGS has controlled and monitored around 0.1 million m3 of timber products exported each year from the CAR. SGS provides a comprehensive service package to the Government of the CAR, thereby increasing its log export revenues and repatriated foreign currency by an estimated 30%.		
Description of Actual Services Provided by SGS's Staff: <ul style="list-style-type: none"> • management of project • liaison with government and exporters • development of inspection procedures • design of information systems • inspection of logs and processed products • training Forest Dept. officers in species identification and quantity/ quality inspection of logs & primary products • information on international log markets • reporting to government • system auditing 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Export Verification Programme, logs and processed wood products		Country: Republic of Congo (Brazzaville).
Location within Country: Pointe Noire and Dolisie. Port of Douala in Cameroon		Professional Staff Provided by SGS (profiles): Operations Co-ordinator, 12 local file managers and field inspectors (including staff in Cameroon)
Name of Client: Ministry of Finance, Government of Congo (Public)		N° of Staff: 12 (on average)
Address: Brazzaville, Congo		Number of Staff x months; Duration of Assignment: 2.4 years up to civil war
Start Date (Month/Year): Nov 1995	Completion Date (Month/Year): March 1998 (halted by civil war)	Approx. Value of Services (in Current US\$): 1% of export value, approx USD 0.8 million per year
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Guy Escarfail, Contract Manager; Edwin Aalders, Operations Manager		
Narrative Description of Project: A project to verify all log and processed wood exported from Congo through the ports of Pointe Noire and also Douala, Cameroon. Volume and species declarations made by exporters were checked against a sample of independent inspections carried out at ports and in processing mills. Based upon the taxable value determined by SGS, the tax payable was adjusted as necessary and the products could be shipped. SGS controlled and monitored 0.4 – 0.6 million m3 of timber products exported each year from Congo. SGS provided a comprehensive service package to the Government of Congo, thereby increasing its log export revenues and repatriated foreign currency by an estimated 30%. The project was halted as a result of the 1997's civil war.		
Description of Actual Services Provided by SGS's Staff: <ul style="list-style-type: none"> • management of project • liaison with government and exporters • development of inspection procedures • design of information systems • inspection of logs and processed products • training for SGS inspectors • information on international log markets • reporting to government • system auditing 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Log Export Verification Programme		Country: Cameroon
Location within Country: Douala and other ports		Professional Staff Provided by SGS (profiles): Operations Co-ordinator, 20 local file managers and field inspectors
Name of Client: Ministry of Finance, Government of Cameroon (Public)		N° of Staff: 20 (on average)
Address: Yaoundé, Cameroon		Number of Staff x months; Duration of Assignment: 8 years to date
Start Date (Month/Year): Oct 1994	Completion Date (Month/Year): Ongoing	Approx. Value of Services (in Current US\$): 0.95% of log export value, approx USD 750,000 per year
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Luc Clément, Contract Manager; Alain Verney, Operations Manager		
Narrative Description of Project: A project to verify all log exports from the ports of Cameroon. Volume and species declarations made by exporters are checked against a sample of independent inspections. Based upon the taxable value determined by SGS, the tax payable is adjusted as necessary and the logs can be shipped. SGS has controlled and monitored 0.1 - 2 million m3 of logs exported each year from Cameroon since 1994. SGS provides a comprehensive service package to the Government of Cameroon, thereby increasing its log export revenues and repatriated foreign currency by an estimated 30%.		
Description of Actual Services Provided by SGS's Staff: <ul style="list-style-type: none"> • Management of project • Liaison with government and exporters • Development of inspection procedures • Design of information systems • Inspection of logs and reconciliation with export declarations • Training SGS inspectors and Customs officers in species identification and quantity inspection of logs • Information on international log markets • Reporting to government • System auditing. 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Log Export Monitoring Agreement		Country: Papua New Guinea (PNG)
Location within Country: Port Moresby and all other export sites		Professional Staff Provided by SGS (profiles): Project Manager, Technical Training Manager, plus 60 local field/ admin staff
Name of Client: PNG Forest Authority Independent State Of Papua New Guinea (Public)		N° of Staff: 56 full time staff on average
Address: Port Moresby, PNG		Number of Staff x months; Duration of Assignment: 6,100 man months (to 31.08.02)
Start Date (Month/Year): July 1994	Completion Date (Month/Year): ongoing	Approx. Value of Services (in Current US\$): USD 1,500,000 (average annual budget)
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Bruce Telfer, Project Manager and Malcolm Levett, Technical Training Manager.		
Narrative Description of Project: An Independent Commission of Inquiry established that there was a significant lack of control of the Forestry Sector of Papua New Guinea, particularly in the area of log exports where the Country was suffering major losses of revenue. The project monitors all log exports from the Country (approx. 2 million m3 annually) through 30 export ports. All impending log shipments are required to be notified to SGS by Government and exporters. The export process then involves physical checks for species identification and log measurement plus independent tally for each shipment, reporting vessel cargo details independently to Government. All shipping and commercial documentation is checked. All information is entered into a database with monthly reports provided to the Forest Authority, Internal Revenue Commission (export duty and company tax monitoring), Bank of PNG (foreign exchange monitoring), Departments of Finance and Planning. The project is also designed to transfer new skills, technology and management skills to the PNG Forest Authority staff – many of whom are working for SGS on a seconded basis.		
Description of Actual Services Provided by SGS's Staff: Responsible for the design and implementation of the monitoring and inspection service. System design for both field and office computing systems including field software and database design. Management system certified to ISO9002. Conduct awareness campaign for all stakeholders: Government (at all levels, National and Provincial), landowners and the forest industry. Set up bases at strategic locations and provide logistical support systems for 42 inspectors operating at 30 logging camps.		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Pilot Ecolabelling Project Testing of Tracing Technology		Country: Indonesia
Project location within country: Java/East Kalimantan		Professional staff provided: Number of staff: 5 Number of man-months: 10
Name of client: European Commision		
Start date: August 1993	Completion date: December 1993	Approximate value of services: US\$ 160 000
Name of associated firm, if any: Media Natura		Man-months provided by associated firm: n/a
Senior staff involved: Frank Miller (Team Leader) Lars-Gunnar Blomkvist William Miller Gunawan Sutedjo Joy Roque		Functions performed: Evaluation of tracking technologies Forest management/silviculture Software engineer Inspection support Inspection support
Detailed narrative description of project: A project to test and evaluate various technologies for the tracing of wood products from the forest to the point of final sale. The project will design a blue print for an eventual trail project which may become part of a wood certification programme.		
Detailed narrative description of services provided: Provided high level inspection and certification expertise to test run a number of technologies which could be used to monitor the flow of wood from the forest to the consumer in Europe.		

Firm's Name: SGS Société Générale de Surveillance

PROJECT NAME: Comprehensive Import/Export Supervision Scheme (CISS/CESS Contract)		COUNTRY: Bolivia
Project location within country: Countrywide		Professional staff provided: Number of staff: 4+ Number of man-months:
Name of client: Government		
Start date: September 1992	Completion date: September 1993	Approximate value of services: @ 1.6% fob value of goods shipped
Name of associated firm, if any:		Man-months provided by associated firm:
Senior staff involved:		Functions performed: National Chief Executive Export Price Analyst Regional Operations Managers Inspectors/Graders
Detailed narrative description of project: Quantity, quality and price inspections of exported roundwood.		
Detailed narrative description of services provided: SGS (Bolivia): prepared/designed appropriate inspection procedures; selected sample intensity and planned series of random/continuous inspection routines; agreed standards and procedures for measurement and grading of logs; set out a manual of procedures to mark logs, document and store data and report findings.		

Firm's Name: SGS Société Générale de Surveillance

PROJECT NAME: Monitoring of Inspection Procedures	COUNTRY: Turkey
Project location within country: Bogaloussa (Louisiana)	Professional staff provided: Number of staff: Number of man-months:
Name of client: Overseas Bank of London	
Start date: 1991 Completion date: September 1993	Approximate value of services:
Name of associated firm, if any:	Man-months provided by associated firm:
Senior staff involved: Jane Vogt	Functions performed: Commercial Manager/Agricultural Division SGS (New Orleans)
<p>Detailed narrative description of project: In 1991, SGS Control Services (USA) was appointed by the Overseas Bank of London to attend at a production site shipping logs from the USA to Turkey. Assurances were required from the bank that production was in fact taking place.</p> <p>Detailed narrative description of services provided: SGS was appointed to witness the loading of logs onto the vessel. The work involved establishing inspection procedures, sample intensity, quantity and quality grading standards, procedures for the marking of logs and recording/storage of data.</p>	

Firm's Name: SGS Société Générale de Surveillance

PROJECT NAME: Forest Revenue Collection Study		COUNTRY: Tanzania
Project location within country: National		Professional Staff provided: Number of staff: 2 Number of man-months: 3
Name of client: ODA/Government of Tanzania, Forestry and Beekeeping Division		
Start date: March 1991	Completion date: April 1991	Approximate value of services: US\$ 38 000
Name of associated firm, if any: Independent Tanzanian Consultant		Man-months provided by associated firm: 1.25
Senior staff involved: Jeremy Toft John Hudson		Function performed: Forest Economist Forester
Detailed Narrative description of project: The project reviewed the current procedures for the collection of royalties from Charcoal, firewood and poles in Tanzania and recommended mechanisms to improve such collection.		
Detailed narrative description services provided: The focus of the study was on wood products from public land and it was concerned with the practical issues of how revenue should be collected rather than the levels of royalty to be applied. Recommendations were made for the improvement of revenue collection and suggestions made for introducing these changes as a specific component of a World Bank financed project. SGS Silviconsult reviewed the legal framework for the collection of royalties and visited forest areas in eight regions to study revenue collection procedures in practice.		

Firm's Name: SGS Société Générale de Surveillance

PROJECT NAME: Aleksandrovs koye Forestry Project		COUNTRY: Russia
Project location within country: Aleksandrovs koye		Professional staff provided: Number of staff: 3 Number of man-months: 2
Name of client: Pvt		
Start date: Oct 1990	Completion date: Dec 1990	Approximate value of services: US\$ 26 000
Name of associated firm, if any:		Man-months provided by associated firm:
Senior staff involved: Christopher Upton Bertil Nilsson Warwick Thomson		Functions performed: Financial Analyst Harvesting and Transport Expert Forester
Detailed narrative description of project: The Aleksandrovs koye Forestry Project involved the salvage of fire damage timber in an area about 50km west of Aleksandrovs koye and its subsequent export as logs and sawntimber. The project intended to harvest a portion of up to 20 000 000 m ³ of fire damaged forest. The timber is dominated by two species red pine (<i>Pinus sibericus</i>) and cedar (<i>Pinus cembra</i>) which account for 67% of standing volume. The project's forest area is almost entirely taiga type marshland important in regulating the water regime of the river Ob. It was considered important to harvest dead trees before they started to fall with the stumps ripping fragile top soil.		
Detailed narrative description of services provided: SGS Silviconsult provided two inputs to the project: 1. Financial services: Assistance in putting together an investment and business plan for the project which included a financial analysis, insurance negotiation and trading arrangement. 2. Log/product control: Development of the first year harvesting plan which included; (a) an appraisal of the forest resource; (b) a harvesting plan; (c) roading and transport requirements; (d) log measurements; (e) management for continued site productivity; and (f) administration and management.		

Firm's Name: SGS Société Générale de Surveillance

PROJECT NAME: Comprehensive Import/Export Supervision Scheme (CISS/CESS Contract)	COUNTRY: Paraguay
Project location within country:	Professional staff provided: Number of staff: 35 Number of man-months:
Name of client: Government/Banco Central Del Paraguay	
Start date: 1985 Completion date: 1987	Approximate value of services: @ 1.6% fob value of goods shipped
Name of associated firm, if any:	Man-months provided by associated firm:
Senior staff involved: Jordi Busquets Cesar Berni	Functions performed: Divisional Manager Assistants (2) Export Price Analysts (3) Regional Operations Manager Wood Division (35) Inspectors/Graders (35)
Detailed narrative description of project: Quantity, quality and price inspections of exported roundwood. Detailed narrative description of services provided: SGS (Guatemala): prepared/designed appropriate inspection procedures; selected sample intensity and planned series of random/continuous inspection routines; agreed standards and procedures for measurement and grading of logs (used NHLA rules - National Hardwood Lumber Association, USA; assessed compliance with import regulations and filed data according to international customs classifications; set out a manual of procedures to mark logs, document and store data and report findings - delivered a clean report of findings for each shipment.	

2.2 Other independent verification projects on hold

SGS has been awarded a national accreditation for the independent Verification of Reforestation Projects aided by the Government of Paraguay (implementation decree not published).

A contract was signed (but was not allowed to start) for independent inspection of forest concession operations in the Central African Republic.

2.3 Specific capacity building/strengthening activities

SGS has carried out numerous assignments for building/strengthening the capacity of the private and government sectors in monitoring and auditing forestry activities. These included internal audits for companies and establishing monitoring and evaluation systems for governments (see next Boxes).

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Assistance to the Forest Revenue Protection Programme (PSRF)		Country: Cameroon
Location within Country: Yaoundé		Professional Staff Provided by SGS (profiles): Project co-ordinator plus local support staff including Tax analysts, IT specialists and Forest/Timber inspection specialists
Name of Client: Programme de Sécurisation des Recettes Forestières – PSRF (Public)		N° of Staff: 6/7
Address: Yaoundé, Cameroon		Number of Staff x months; Duration of Assignment: 3 months initially, renewable for 2 months successive periods
Start Date (Month/Year): June 2000	Completion Date (Month/Year): June 2002 (default of payment)	Approx. Value of Services (in Current US\$): USD 50,000 per year
Name of Associated Consultants, If Any: N/A		N° of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Alain Verney, Project Director; Dieudonné Ond Ond, Project team leader		
Narrative Description of Project: A project to support the PSRF within the Tax Dept in view of the creation of a new tax based on log supplies to primary processing units. Success of this tax and effectiveness of its collection rest heavily on the capacity of the programme and its staff to perform an efficient and consistent file and data processing. The Consultants are responsible for looking at how the system works, detect and analyse possible malfunctioning and propose recommendations with a view to improving the system and the way it runs.		
Description of Actual Services Provided by SGS's Staff: <ul style="list-style-type: none"> • Support to development of forms for company tax declarations • Training for PSRF officials and staff • Advice for the revision or preparation of regulations • Continuous performance audit of the PSRF programme through the change programme with milestones and indicators of achievement 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Monitoring & Evaluation of ADB Forestry Sector Project		Country: Philippines
Location within Country: Nationwide		Professional Staff Provided by SGS (profiles): - Forest Policy Specialist - Rural Development Specialist - Monitoring & Evaluation Spec'list - Sociologist
Name of Client: ADB – Asian Development Bank (Public)		Nº of Staff: 4
Address: Manila, Phillipines		Number of Staff x months; Duration of Assignment: 36 months
Start Date (Month/Year): April 1994	Completion Date (Month/Year): May 1996	Approx. Value of Services (in Current US\$): USD 450,000
Name of Associated Consultants, If Any: N/A		Nº of Months of Professional Staff Provided by Associated Consultants: N/A
Name of Senior Staff (Project Director/Coordinator, Team Leader) Involved and Functions Performed: Hughes Speechly, Project Coordinator ; Matthias Rhein, Project team leader ; Richard Fernandez, Rural Development Specialist ; Joy Roque, Monitoring & Evaluation Specialist ; Raul Cola, Sociologist		
Narrative Description of Project: The Asian Development Bank extended a \$120 million loan to the Philippine Government to invest in forest sector development nationwide. The aims were: (i) to reverse the process of forest degradation through policy and institutional reforms; (ii) to ensure sustainable sector investments through community participation; and (ii) to enhance environmental rehabilitation and augment income opportunities in the project area.		
Description of Actual Services Provided by SGS's Staff: SGS Forestry implemented a Technical Assistance contract to support the Philippine Government DENR strengthen and complement its project monitoring and evaluation system through the following change program activities: <ul style="list-style-type: none"> • Analysis and review of the current system particularly in terms of its practicability, applicability and costs; • Study and propose options for expediting loan drawdown payments; • Development of field tests and recommendation of appropriate measure to improve M&E of project activities; • Design a monitoring system based on periodic field appraisals; • Review the current DENR manpower resources and facilities with regard to the provision of M&E of the Project and suggest suitable manpower and training requirements; • Identification and evaluation of suitable NGO's for monitoring and evaluation of the sector investment activities,; • Supervise NGO's and DENR staff in the implementation of the M&E system; • Conduct an inventory of area-specific reforestation, community-based forest management, critical watershed rehabilitation projects and assess their performance; • Determine a sampling procedures for representative samples for field verification of baseline data and for reporting progress on various project components; • Prepare assignments for field verification by local consultants/NGO's in line with sampling procedures adopted. 		

Firm's Name: SGS Société Générale de Surveillance

Assignment Name: Export Rehabilitation Project		Country: Ghana
Project location within country: Nationwide		Professional Staff provided: Number of staff: 11 Number of man-months: 276
Name of client: Ministry of Lands and Natural Resources, Government of Ghana		
Start date: 1984	Completion date: 1989	Approximate value of services: US\$ 3 million
Name of associated firm, if any:		Man-months provided by associated firm:
Senior staff involved: Mike Lyons Denis Alder Göte Sahlberg John Sargent Bruno Svensson Jonas Enander Gordon Pickles Bror Isaksson Roland Grip Johnny Adolfsson		Function performed: Managing Director TEDB Timber Industry Adviser NIB Managing Director FBIB Registrar of Graders FPIB Administrative Accountant Forest Engineer Production Manager Diesel Specialist Transportation Engineer Training Supervisor
Detailed Narrative description of project: The project aimed to improve the quality and quantity of wood products so as to increase export earnings.		
Detailed narrative description services provided: SGS Silviconsult was involved in the following fields: <ul style="list-style-type: none"> - Establishment of a Forest Products Inspection Bureau (FPIB) whose prime functions are to train graders in quality control & grading of all logs and wood products; and design and implement appropriate rules specific for Ghana's requirements; - Establishment of a Timber Export Development Board (TEDB) including the development of a market intelligence unit, promotion and information system and services to the industry; - Loan administration and disbursement at National Investment Bank (NIB); - Rehabilitation and rationalization of log transportation and harvesting to ensure a sustained supply of logs at minimum cost for two large timber firms. This included on-the-job training of counterpart staff and establishment of a training school for mechanics, technicians and foreman; and - Formulation of an overall strategy for the Forest Department and for the forest industries including the renovation and modernization and the efficient staffing of the relevant organizations. Establishment of routines for management of the forest reserves (concessions). 		

3. Further related experience of general interest

An important part of the services provided by SGS is aimed at meeting the goals of Agenda 21. These include climate change mitigation services, environmental management systems certification, ISO 14001, EMAS, FSC forest management certification, and ethical audits to the requirements of SA 8000. New areas include certification of marine fisheries [MSC] and of the travel and tourist industry [Green Globe].

3.1 Auditing/ Certification Services

3.1.1 Forest Auditing

Country	Project Name	Coverage	Activity	Client	Date	
Central African Republic	Forest Audits	audits of forest concession companies	internal audit and definition of new environmental / social legislation	Govt	1997	
Congo	Forest Sector Review	review of forest sector and revenue systems	sector review and recommended new fiscal policies	Govt	1996	
Cote D'Ivoire	Forest Revenue Working Group	Seminar on forest taxation	expert advice	WB	1997	
Ecuador	Forest Resource Accounting Project - Ecuador	Institutions/policy	evaluation preparation and design	ITTO(ODA)	1994	
European Community	Preparation of Forestry Project Handbook	forestry sector development	contribution to EC project handbook	Particip (EC)	1996	
Ghana	Forest Certification Working Group	Advisory group on development of a local standard	expert advice	ODA/ IIED	1996	
Guyana	Forest Resource Accounting Project	Institutions/policy	evaluation, preparation and design	ITTO(ODA)	1996	
Indonesia	Pre Initial Public Offering	Audits of two companies prior to their listing on the Jakarta Stock Exchange	assessment of each company's resource base and forest management systems	Ministry of Forestry	1994 to 1995	
Norway	Certification	natural forest	advisory and workshop facilitation	Pvt	1997	
Philippines	Monitoring and Evaluation of sector activities Project	Institutions/policy	evaluation	Gvt(AsDB)	1994 to 1996	
Surinam	Design of Timber Inspection Authority	Government	feasibility study	EC/Gvt	1996	
United Kingdom	Certification	Plantation	development of national standard for forest management certification	FSC WG	1997	
United Kingdom	Forest Bond	Risk identification and assessment methodology	risk assessment	Pvt	1996/97	
United Kingdom	Shareholder value index	Shareholder environmental/risk methodology	value profiling	risk assessment	Pvt	1997
Venezuela	Forest Plantation Audit	Plantations	Management audit	Pvt	1997	

3.1.2 Forest Carbon Offsets Verification

The SGS Climate Change Programme (formerly Carbon Offset Verification) offers services in sectors including the Land Use, Land Use Change and Forestry (LULUCF) Sector. The main activities are the validation of project design and verification and certification of sequestration and (in early projects) avoided emissions created by forest management, afforestation and reforestation projects. Projects have been assessed against emerging Kyoto Protocol rules. Currently, LULUCF projects are awaiting confirmation of accounting rules before afforestation and reforestation projects can be considered under the CDM (Clean Development Mechanism) of the Kyoto Protocol. Meanwhile, several projects continue on a voluntary basis either in anticipation of CDM registration or to produce voluntary emission reductions for specific markets. SGS has applied for accreditation as an Operational Entity under the CDM and will include forestry projects in the scope of accreditation in due course.

Details of Projects with Validated Project Design and Verified Sequestration or Emission Reductions

Country	Project Name	Subject	Activity	Client	Date	Value
Uganda	SGS CCP	Plantations of native species in National Parks	Validation and verification; award of voluntary credits	FACE Foundation	1999 to date	Included
Ecuador	SGS CCP	Plantations	Validation and verification; award of voluntary credits	FACE Foundation	1999 to date	Included
Netherlands	SGS CCP	Plantations / natural forest	Validation and verification; award of voluntary credits	FACE Foundation	1999 to date	Included
Tanzania	SGS CCP	Plantations	Validation and verification; award of voluntary credits	Private	1998 to date	USD/ EUR 20,000
Czech Republic	SGS CCP	Natural forests in National Parks	Validation and verification; award of voluntary credits	FACE Foundation (Private)	1999 to date	USD/ EUR 100,000
United Kingdom	Support to UNFCCC Secretariat	Preparation of audit guidelines for specialist review of National Inventories in the LULUCF Sector	Specialist input	UNFCCC Secretariat	2002	N/A
Chile	SGS CCP	Natural Forest and peat reserves	Validation & verification; award of voluntary credits	Forestal Trillium S.A. and Cfix Corp. (Private)	1999-2000	USD/EUR 70,000 + 20,000
Chile	SGS CCP	Plantations	Pre-assessment	Private	1999	USD/EUR 20,000
Costa Rica	SGS CCP Protected Areas Project	Afforestation, forest management and conservation of natural forest	Validation	Government	1997-98	USD/EUR 400,000
United Kingdom	BNSC - SGS CCP	Research project exploring application of remotely sensed data to carbon quantification	Research	University/ Government (Public)	1999 to 2002	USD/ EUR 160,000
United Kingdom	Contribution to IPCC Special Report on LULUCF	Lead Author, Ch 6 Project Related Activities. Specialist input on verification and certification	Specialist input	UK Govt (Public)	1999	N/A
United	Support to UNFCCC	Preparation of audit guidelines for specialist	Specialist input	UNFCCC	2002	N/A

Country	Project Name	Subject	Activity	Client	Date	Value
Kingdom	Secretariat	review of National Inventories in the LULUCF Sector		Secretariat		

Training courses, awareness raising seminars, presentations are performed on a regular basis for SGS assessors and for climate change policy and project managers of both the public and the private sectors. SGS continues to gain a significant market share in validation and verification of projects in other sectors including energy, and is active in domestic and international emission trading schemes.

3.2 Forest Auditing and Certification

SGS is the world leader in the certification of forest management and processed wood chain-of-custody.

Under SGS's 'QUALIFOR' FSC-accredited forest certification programme:

- 190 forest management certificates have been issued since the inception of the Forest Stewardship Council in 1994, in a total of 18 different countries with a total area of more than 15 million hectares of forests covered world wide.
- SGS holds 1050 chain-of-custody certificates in 29 countries (as of January 2003).

World-wide, SGS has more than 80 trained and experienced forest certification assessors. Training courses are performed on a regular basis for forest managers and assessors.

Table: Numbers of Qualifor forest management and chain of custody certificates by country

Country	# certificates	CoC	FM
Argentina	5	4	1
Australia	1	1	
Belgium	44	44	
Brazil	6	6	
Canada	2	2	
Chile	7	6	1
China	15	15	
Costa Rica	14	7	7
Finland	1	1	
Great Britain	244	196	48
Hong Kong	7	7	
Indonesia	14	13	1
Italy	16	5	1
Japan	20	19	1
Latvia	23	19	4
Malaysia	23	20	3
Netherlands	85	80	5
New Zealand	39	30	9
Panama	2		2
Paraguay	1	1	
Poland	142	132	10

Papa New Guinea	1	1	
South Africa	169	143	26
Spain	3	3	
Sri Lanka	11	8	3
Switzerland	195	149	46
Swede	109	90	19
Thailand	3	3	
Uruguay	6	4	2
Vietnam	32	32	
Total:	1240	1050	190

For more information and contacts, visit SGS Qualifor's web site at <http://www.sgsqualifor.com/>.

Other forest certification accreditations:

- PT SGS International Certification Services Indonesia have been accredited in August 2000 by the Indonesian Ecolabeling Foundation (LEI), the Indonesian programme for forest certification accredited by the FSC, together with 3 other companies.

3.3 Other technical services

Some of the SGS Group's network of affiliated companies in 140 countries have the capability of providing forestry related services based on specific skills. This includes:

- Remote Sensing, GIS, Cartography and Satellite Data Processing
- Field work in relation to forest management, plantation management, social forestry, wildlife management, forest fire management, impact assessment
- Environmental services.

Further references can be provided on demand.