



PD 195/03 Rev.2 (F)

“TO ESTABLISH A NATIONAL
MONITORING INFORMATION SYSTEM
FOR THE EFFECTIVE CONSERVATION
AND
SUSTAINABLE MANAGEMENT OF
THAILAND'S FOREST RESOURCES”



ITEM 3. REVIEW PROJECT STRUCTURE & PROGRESS

- Project objectives, outputs and work plan
- Organizational Chart of the Project
- Progress Report
- Technical documents
- Critical analysis of the Project's implementation
- Degree of compliance with ITTO policy guidelines
- Mechanism for ensuring sustainability after project completion



PROJECT OBJECTIVES

Development Objective: To contribute to the effective conservation and management of forest resources and the environment.

Specific Objective: To establish a national forest resources monitoring information system, to provide change and trend data for timber and non-timber forest resources.



PROJECT OUTPUTS

1. National baseline forest resources monitoring system established.
2. Use of the forest resources monitoring information promoted.
3. National baseline C&I report prepared.



PROJECT WORK PLAN

OUTPUTS/ ACTIVITIES	YEAR 1				YEAR 2				YEAR 3			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Output 1. National baseline forest resources monitoring system established												
Activity 1.1	■											
Activity 1.2				■	■	■						
Activity 1.3					■	■	■	■	■			
Output 2. Use of forest resources monitoring information promoted												
Activity 2.1	■											
Activity 2.2				■	■	■	■	■				
Activity 2.3								■	■	■		
Activity 2.4											■	■
Output 3. Baseline national C&I report prepared												
Activity 3.1							■	■				
Activity 3.2									■	■		
Activity 3.3											■	■



PROJECT ORGANIZATION

PROJECT MANAGEMENT TEAM

- Project Leader: Mr. Jirajet Urasayanan
- Senior Project Coordinator: Ms. Khanita Meedej
- International Consultant : Dr. A.Y. Omule



PROJECT ORGANIZATION NATIONAL EXPERTS

Biodiversity, Human Impact & Soils

- Dr. Jesada Luangjame
- Mrs. Pornpun Jongsuksuntigull
- Mrs. Wilawan Wichienopparat

Botanists

- Dr. Chawalit Niyomdham
- Mr. Pongsak Phonsena
- Mr. Somran Suddee
- Mr. Thanongsak Jonganurak
- Mr. Phonphitak Panyarat
- Mr. Piyachart Trisarasi

Socio-economics

- Dr. Komol Pragtong
- Mrs. Teunchai Nuchdamrong

Computer Programmet

- Mr. Pisut Nakmeunwai

GIS & Remote Sensing

- Mr. Anuchit Rattanasuwan
- Mr. Jongrak Poopaiboon

Forest Inventory

- Mr. Anond Soravisuitra
- Mr. Pairun Bhramahitadara
- Mr. Somyot Saengnin
- Mr. Sayan Suraparbmaitree
- Mrs. Auschada Chitchote
- Mr. Kamron Sungsuwan

Wildlife Survey

- Mr. Tawee Nootong
- Mr. Prateep Rojanadilok
- Mr. Kitti Kritiyutanon
- Mr. Krairat Eiamampai
- Mr. Kriangsak Sribuarod



PROJECT ORGANIZATION

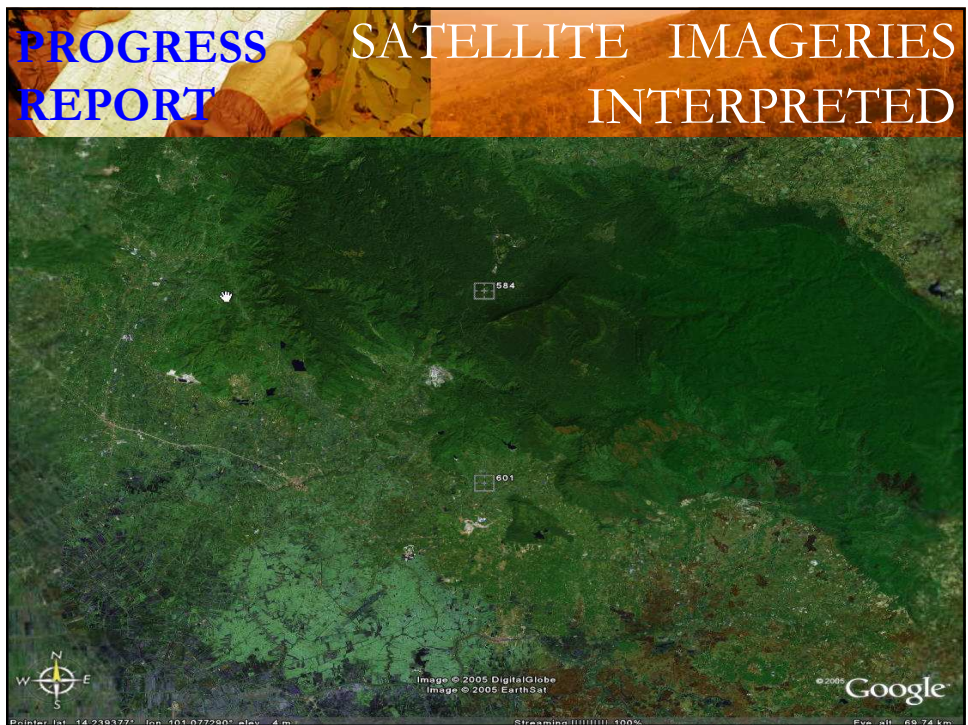
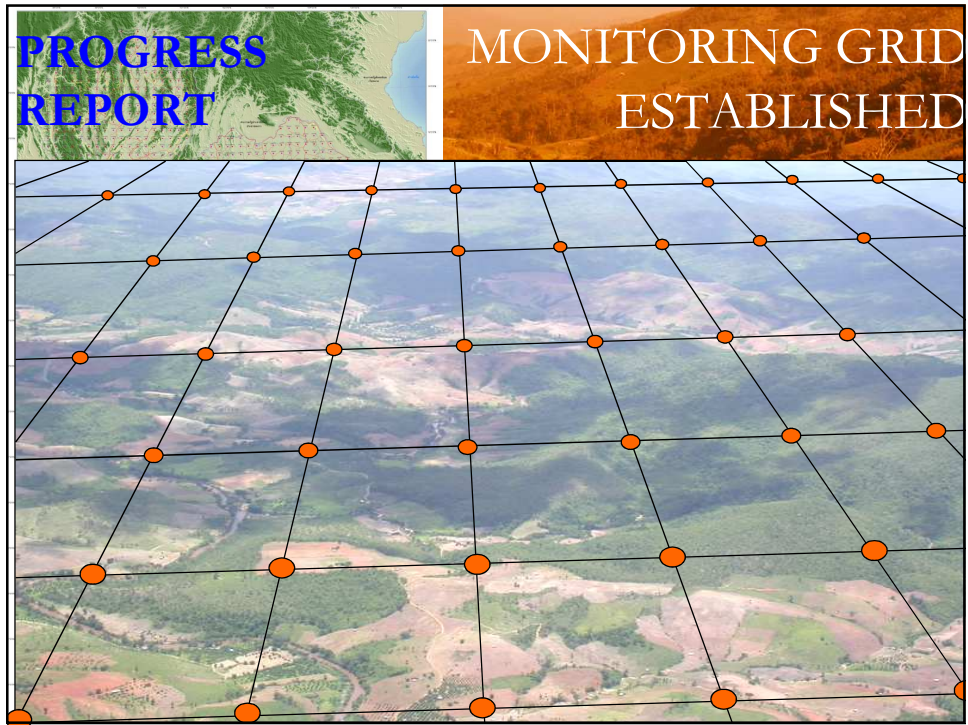
PROJECT STAFF

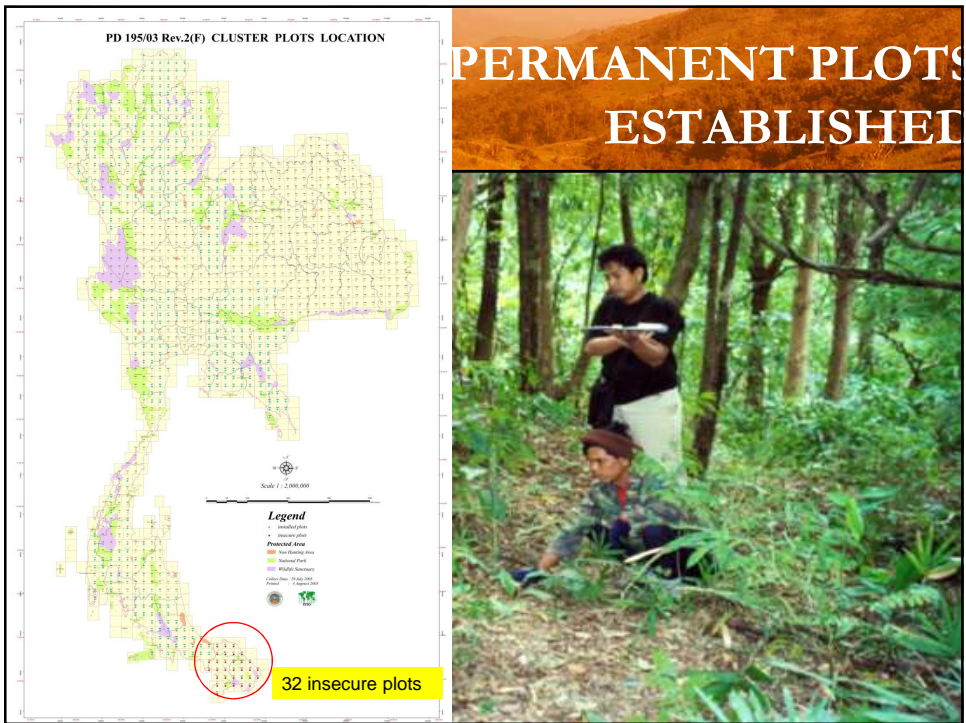
- **Office Assistant:** Ms. Panatta Chareonkrung
- **Inventory Assistant:** Mr. Koop Kotsakeung
- **GIS Assistant:** Ms. Woranuch Junsuri



PROJECT PROGRESS REPORT (Yr 1: 8 June 2004 to 7 June 2005)

- **1ST & 2ND PROGRESS REPORTS**
submitted to ITTO in **DECEMBER 2004**
and **JUNE 2005**.





MONITORING DATABASE AND COMPILATION PROGRAM DEVELOPED

PROGRESS REPORT

Seeding & Sapling

Trees

Project ID	Cluster ID	Plot Site	Measurement Date	GPS Cluster Centre (map)		GPS Plot Centre (site)		Crew Chief	Name	Code	Page										
3	583	C	28/1/2548	Eastings	Northings	Eastings	Northings	Recorder	ชื่อผู้บันทึก	E19 S26	1 4										
Item No.	Species Name	Species Code	Position		Stand/Plot	GBH (cm)	M/E	Total Height (m)	M/E	Number of Leaves	Timber Quality	Crown Class (tic one)					Estimated Crown Width (m)	Leaflet Length (%)	Decid	Remark	
1	ปอแก้ว	10771	14	4.39	<input checked="" type="checkbox"/>	46.5	M	13	E	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	3	2	10	N		
2	ส้มโอมะเดา	10293	22	6.38	<input checked="" type="checkbox"/>	16.7	M	6.5	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	5	1	1	0	N	
3	ปอแก้ว	10771	26	8.51	<input checked="" type="checkbox"/>	78.5	M	16	E	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6	4	6.5	5	20	N	
4	ปอแก้ว	10771	338	6.51	<input checked="" type="checkbox"/>	45	M	14	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	4.5	5	5	0	N	
5	ส้มโอมะเดา	32811	350	9.04	<input checked="" type="checkbox"/>	15.4	M	10	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	2.5	2	1	0	N	
6	ปอแก้ว	10771	833	12.94	<input checked="" type="checkbox"/>	18.2	M	8.5	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1	1	1	0	N	
7	ปอแก้ว	10771	116	14.29	<input checked="" type="checkbox"/>	52	M	16	E	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5	4	5	4	0	N	
8	ส้มโอมะเดา	10034	6	13.41	<input checked="" type="checkbox"/>	18.5	M	6	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1	1	1	0	N	
9	ส้มโอมะเดา	32838	290	1.48	<input checked="" type="checkbox"/>	21	M	3	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	2	4.5	3	0	N	
10	ส้มโอมะเดา	32838	254	1.52	<input checked="" type="checkbox"/>	33.5	M	9	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	1	1	1	0	N	
11	ส้มโอมะเดา	32814	290	2.12	<input checked="" type="checkbox"/>	24.2	M	7	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1	1	1	0	N	
12	Unknown	0	300	2.96	<input checked="" type="checkbox"/>	16.3	M	6	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	1.5	1	1	0	N	
13	Unknown	0	286	5.23	<input checked="" type="checkbox"/>	30	M	10	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	1.5	1.5	1.5	0	N	
14	มะพร้าว	11482	288	5.86	<input checked="" type="checkbox"/>	35	M	12	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	4	2.5	3.5	5	N	
15	มะพร้าว	11482	266	5.1	<input checked="" type="checkbox"/>	27	M	10	E	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3	2	2	1.5	0	N	

Remarks: 1) Tree: dbh >= 4.5 cm or gbh >= 15 cm 2) Timber Quality: code gbh (cm) 11 - Sound 12 - Cull 13 - Firewood

MONITORING DATABASE AND COMPILATION PROGRAM DEVELOPED

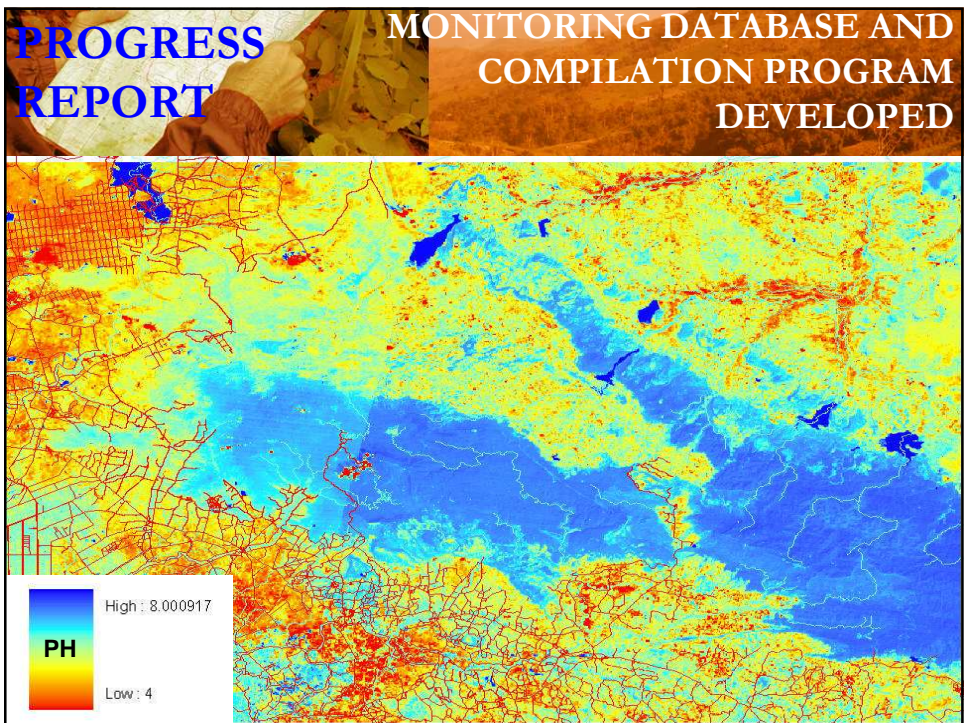
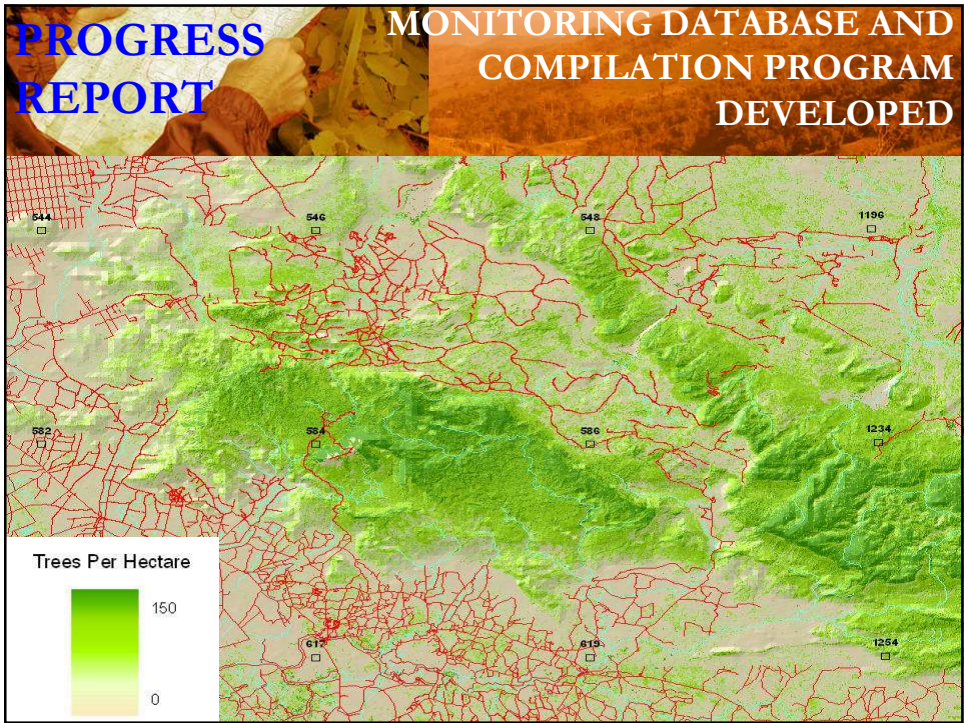
PROGRESS REPORT

SOIL DESCRIPTION

SOIL DESCRIPTION

Project ID	Cluster ID	Plot Site	Measurement Date	GPS Cluster Centre (map)		GPS Plot Centre (site)		Crew Chief	Name	Code	Page						
3	583	C	28/1/2548	Eastings	Northings	Eastings	Northings	Recorder	ชื่อผู้บันทึก	E19 S26	1 1						
Rel-Slope Position		Slope	Aspect	Water table (tick one)	Depth (cm)	Azimuth Plot Centre to Soil Pit	Soil Pit Location (tick one)	Distance from Plot Centre (m)	DOP	25							
<input type="checkbox"/> Crest	<input type="checkbox"/> Upper	35	n	<input type="checkbox"/> Y	0	254	<input type="checkbox"/> L	7.5	DOP = Depth of Pit (distance from zero)								
<input type="checkbox"/> Middle	<input type="checkbox"/> Lower			<input type="checkbox"/> N			<input type="checkbox"/> R										
<input type="checkbox"/> Depression	<input type="checkbox"/> Flat																
Soil Description																	
Presence Horizon (tick one)	Depth (cm)	Soil Description															
O	0	Roots Abundance and Size	Structure	Soil Colour	Coarse Fragments (%)	Soil Pit Location for Chemical Analysis (tick)					Bulk Density						
A	25					Color	%	Gravel	Cobbles and stone	North		South	Center	West	East		
Ap	0															Very Fine	Fine
	0-30																
	0-DOP																
Chemical Analysis of Composited Soil Samples from The Pits																	
Soil Depth	Sample No.	pH 1:1 H2O	OM (%)	Avail.P (ppm)	Exch.Cation (me/100 g)				BS (%)	CEC (me/100 g)	% Soil Component			Soil Texture			
0-30		0	0	0	K	Ca	Mg	Na	0	0	Sand	Silt	Clay				
0-DOP					0	0	0	0	0	0	0	0	0				

73501591C





PROJECT PROGRESS REPORT

(Yr 1: 8 June 2004 to 7 June 2005)

- **REVIEW OF AVAILABLE SOCIO-ECONOMIC DATA COMPLETED.**



TECHNICAL REPORTS

- **TECHNICAL REPORT No. 1:
NATIONAL TRAINING WORKSHOP
PROGRAMME**
- **TECHNICAL REPORT No. 2:
METHODS TO INTEGRATE SOCIO-ECONOMIC
DATA WITH THE BIOPHYSICAL MONITORING
DATA (in preparation)**



CRITICAL ANALYSIS OF PROJECT IMPLEMENTATION

- The Project is on track, on budget and on time.
- Issues:
 - Use of the EFDRs
 - Security of field crew in the South
 - Rising fuel costs (up by ~20%)
- Lessons learned
 - Crew organization
 - Increased field time (from ~ 1 plot/day to ~ 1.2 plots/day)



DEGREE OF COMPLIANCE WITH ITTO POLICY GUIDELINES

- **CONSERVATION OF BIODIVERSITY --**
Ch. 7, Recommendation 20: Adapt existing systems for biodiversity inventory.
- **CRITERIA AND INDICATORS (C&I) --**
Thailand used ITTO framework to develop national C&I, for which the Project will provide biophysical data for reporting.



MECHANISMS FOR ENSURING SUSTAINABILITY AFTER PROJECT COMPLETION

- **INVOLVE NATIONAL EXPERTS (DNP STAFF)**
- **INTEGRATE PROJECT WITH THE NATIONAL FOREST INVENTORY**
- **DEVELOP COST-EFFECTIVE REMEASUREMENT SCHEDULE.**



ITEM 4. REVIEW OF PROJECT FINANCE AND INPUTS APPLIED

- **Project budget & Expenditures (ITTO)**
- **Project Budget & expenditures (GOT)**
- **Capital items purchased with ITTO funds**



PROJECT BUDGET & EXPENDITURES (ITTO)

Components	Approved Total	Up-to-date Committed by E.A. but not spent	Up-to-date spent	Spent + committed in period	Remaining values	Explanation of Remaining values
	(A)	(B)	(C)	(D)=(B+C)	(A)-(B+C)	
10. Project Personnel	310,025	-	131,670	131,670	178,355	Project continuing
20. Sub-contracts	-	-				Project continuing
30. Duty Travel	193,435	-	49,558.33	49,558.33	143,876.67	Project continuing
40. Capital Items	-	-	-	-	-	
50. Consumable Items	100,920	-	15,737.58	15,737.58	85,182.42	Project continuing
60. Miscellaneous	2,000	-	-	-	2,000	Project continuing
70. Executing Agency Mgt Costs	-	-	-	-	-	
80. ITTO Admin., Mon. & Evaluate	71,363	-	-	-	71,363	managed by ITTO
100. Grand Total	677,743	-	196,965.91	196,965.91	480,777.09	



PROJECT BUDGET & EXPENDITURES (GOT)

Components	Approved Total	Up-to-date Committed By E.A. but not spent	Up-to-date spent	Spent + committed In period	Remaining values	Explanation of Remaining values
	(A)	(B)	(C)	(D)=(B+C)	(A)-(B+C)	
10. Project Personnel	93,170	-	40,820	40,820	52,350	Project continuing
20. Sub-contracts		-	-	-	-	
30. Duty Travel		-	-	-	-	
40 Capital Items	105,000	-	40,600	40,600	64,400	Project continuing
50. Consumable Items	49,500	-	35,500	35,500	14,000	Project continuing
60. Miscellaneous	6,000	-	2,000	2,000	4,000	Project continuing
70. Executing Agency Mgt Costs	129,007	-	38,702	38,702	90,305	Project continuing
100. Grand Total	382,677	-	157,622	157,622	225,055	-



CAPITAL ITEMS PURCHASED WITH ITTO FUNDS

- **NONE**



ITEM 5 CONSIDERATION OF YPO 2

- **LOGICAL FRAMEWORK MATRIX**
- **ACTIVITY PROGRAMME**
- **BUDGET**

LOGICAL FRAMEWORK MATRIX (Output 1.0 - National Baseline Forest resources Monitoring System Established; 1.3)		
INDICATORS:	VERIFICATION:	ASSUMPTIONS:
<p>Install approximately 800 plots, to complete the establishment of the planned 1,300 field plots.</p> <p>Four PDAs (electronic field data recorders) acquired and field-tested.</p>	<p>Established permanent field plots.</p>	<p>Rainy season not longer than normal.</p> <p>Security situation improves in the southern part.</p>

LOGICAL FRAMEWORK MATRIX (Output 2.0 - Use of the Forest Resources Monitoring Information Promoted; 2.2)		
INDICATORS:	VERIFICATION:	ASSUMPTIONS:
<p>Processes for importing the socio-economic data in place.</p> <p>Modules for overlaying the socio-economic data over the forest resources monitoring data developed.</p> <p>User-friendly interfaces for facilitate database access and reporting developed.</p>	<p>Manuals of procedures, modules and interfaces for importing & overlaying socio-economic data.</p> <p>Socio-economic analysis report.</p>	

LOGICAL FRAMEWORK MATRIX

(Output 2.0 - Use of the Forest Resources Monitoring Information Promoted; 2.3)

INDICATORS:	VERIFICATION:	ASSUMPTIONS:
Models of the relationships between socio-economic and biophysical data developed.	Socio-economic analysis report.	
Linkages established with socio-economic institutions.	Correspondences with contacted institutions.	
Quality Assurance (QA) procedures developed	QA manuals.	

LOGICAL FRAMEWORK MATRIX

(Output 3.0 - National baseline C&I report prepared; 3.1)

INDICATORS:	VERIFICATION:	ASSUMPTIONS:
C&I report template developed	Mock up C&I report	



ACTIVITY PROGRAMME 2005/06 (Output 1.0)

Field crews to establish the remaining approximately 800 plot clusters.

Field crews, Inventory Assistant and Inventory Consultant to edit, process and analyze data.

GIS staff to load data onto GIS database and produce preliminary thematic maps and overlays.

Acquire and test PDA systems and related software & peripherals, and train QA field crews in their use.



ACTIVITY PROGRAMME 2005/06 (Output 2.0)

PL and IC to prepare protocols and agreements to acquire the required socio-economic data and metadata.

GIS staff to design processes for importing the socio-economic data.

GIS staff to build GIS-based modules for overlaying the socio-economic data over the forest resources monitoring data.



ACTIVITY PROGRAMME 2005/06
(Output 2.0)

GIS staff to develop user-friendly interfaces for facilitate database access and reporting.

Socio-economics expert and International Consultant to model the relationships between socio-economic data and the biophysical data, and prepare a Technical Report.

IC and National Experts to develop field data QA procedures.



ACTIVITY PROGRAMME 2005/06
(Output 3.0)

IC to review the Thai C&I and sample C&I reports from other countries.

IC to develop appropriate templates for the baseline C&I report and the subsequent C&I reports for Thailand. The templates will be based on the ITTO guidelines.



Work Plan 2005/06

OUTPUTS / ACTIVITIES	RESPONSIBLE PARTY	SCHEDULE: Month/Calendar Year												
		6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	
Output 1. National baseline forest resources monitoring system established														
Activity 1.3	GIS national experts; Project Coordinators; Crew Chiefs; International Consultant.													
Output 2. Use of forest resources monitoring information promoted														
Activity 2.2	Project Leader; Socio-economics experts; International Consultant.													
Activity 2.3	Project Leader; Socio-economics experts; national experts.													
Output 3. Baseline national C&I report prepared														
Activity 3.1	GIS national experts; International Consultant													



ITTO BUDGET 2005/06

Activity	Budget (US\$)					
	10. Personnel	30. Duty Travel	40. Capital Items	50. Consumable Items	60. Miscellaneous	Total
1.3	146,450	79,760	-	48,800	-	275,010
Sub-total 1.0	146,450	79,760	-	48,800	-	275,010
2.2	1,400	2,070	-	-	-	3,470
2.3	8,050	9,925	-	-	-	17,975
Sub-total 2.0	9,450	11,995	-	-	-	21,445
3.1	3,550	2,135	-	-	-	5,685
Sub-total 3.0	3,550	2,135	-	-	-	5,685
Non-activity expenses	10,200	-	-	-	-	10,200
Total	169,650	93,890	-	48,800	-	312,340



GOT BUDGET 2005/06

Activity	Budget (US\$)					Total
	10. Personnel	30. Duty Travel	40. Capital Items	50. Consumable Items	60. Miscellaneous	
1.3	24,860	-	-	-	-	24,860
Sub-total 1.0	24,860	-	-	-	-	24,860
2.2	-	-	-	-	-	-
2.3	6,314	-	-	-	-	6,314
Sub-total 2.0	6,314	-	-	-	-	6,314
3.1	462	-	-	-	-	462
Sub-total 3.0	462	-	-	-	-	462
Non-activity expenses	-	-	15,000	11,000	6,000	32,000
Total	31,636	-	15,000	11,000	6,000	63,636