

# COMPLETION REPORT

## EXPLORATORY ASSESSMENT ON THE POPULATION DISTRIBUTION AND POTENTIAL USES OF NON-*GONYSTYLUS* SPECIES IN INDONESIA

ITTO-CITES PROJECT  
INDONESIA'S WORK PROGRAMME FOR 2008 ON

Ensuring international trade in CITES - listed timber species is consistent with  
their sustainable management and conservation



### EXECUTING AGENCY

Forestry Research and Development Agency (FORDA), Ministry of Forestry, Indonesia  
Mangala Wanabhakti Building, Block 1, 11<sup>th</sup> Floor  
Jl. Jend. Gatot Subroto, Senayan  
Jakarta 10270, Indonesia  
Tel: 021 – 5737945, Fax: 021 – 5737945



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## **THEMATIC PROGRAM ON ITTO-CITES**

**ENSURING INTERNATIONAL TRADE IN CITES-LISTED TIMBER SPECIES IS  
CONSISTENT WITH THEIR SUSTAINABLE MANAGEMENT AND CONSERVATION**

### **STARTING DATE**

15 December 2008

### **DURATION OF THE ACTIVITY**

12 months, extended to 20 months

### **ACTIVITY COST (US\$)**

ITTO	US\$	128,600
GOI (in-kind)	US\$	33,090
Total	US\$	161,690

## **ACTIVITY COMPLETION REPORT**

### **ACTIVITY TECHNICAL AND SCIENTIFIC STAFF**

#### **Activity Coordination Team**

Tajudin Edy Komar

#### **Activity Secretary**

Siti Nurjanah

#### **Activity Finance**

Dian Tita Rosita

#### **National Expert and Team Leader**

Dr. Teguh Triono

Dr. Kade Sidiyasa

Dr. Anthonius Y.P.B.C. Widyatmoko

Ms. Yelnities

### **IMPLEMENTING AGENCY**

Center for Forest and Nature Conservation Research and Development  
Jalan Gunung Batu No. 5, Bogor  
Telp. 62-251-8633-234, Fax: 62-251-8638-111

**Bogor, 25 November 2010**

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# EXECUTIVE SUMMARY

## **1. Activity Context, Origin and problem to be addressed**

All species within *Gonystylus* spp., have been listed into Appendix of CITES, but they have not been fully explored their natural distribution, biological-ecological aspects and potential use. This Activity addresses to the issues on the deficiency of data and information on those species.

## **2. Activity Objectives**

### **Overall objective**

The overall objective of this Activity is to ensure the international trade of ramin in Indonesia is consistent with its sustainable management and conservation as part of global concern on ensuring sustainable management and conservation of CITES-listed timber species, especially for ramin (*Gonystylus* spp.) in Indonesia and Malaysia.

### **Specific objective**

Specific objective is to explore current status of distribution, population and biological-ecological aspects and potential uses.

## **3. The Most Critical Differences between Planned and Realized Activity Implementation**

**Activity personnel:** There were no major changes in Activity personnel.

**Time schedule:** There was an extension from 12 months to 20 months to execute some extended additional activities (January 2009 through August 2010).

**Budget amendment:** Some amounts of unspent fund were reallocated to support some extended additional activities.

## **4. The Situation Prevailing after Activity Completion, as Compared to the Pre-Activity Situation including the Situation of the Target Beneficiaries, and indicates the Post- Activity Sustainability**

There are several conditions which have been reversed from this Activity:

- The updated data and information on *Gonsytlus* species in Indonesia
- The availability of guideline for ramin species identification
- The information on genetic diversity and genetic distance between ramin species
- The newly established gene pool for *G. bancanus* in South Sumatra and Kalimantan

The above outputs are necessary to support and to enhance SFM and conservation of ramin, especially their genetic resources.

## **5. The Most Relevant Outcome of the Analysis of the Activity Implementation**

- Data and information on the current status of *Gonystylus* species.
- Technical guideline for species identification for *Gonystylus* species in Indonesia.

## **6. The Lessons Learned**

It is important to explore current status of species listed in CITES, in order to effectively conserve the species and formulate immediate field action

- This review includes using herbarium species is very helpful to trace the earlier recorded distribution of species.
- This Activity gives contribution to stakeholders in term of knowledge and awareness that some of existing species are currently threatened and need stakeholder involvement to protect and to conserve them.
- In this Activity wider stakeholders and field staffs involved.

## **7. Recommendations.**

It is recommended that future Activity be carried out that cover wider areas of distribution.

## 1. ACTIVITY IDENTIFICATION

### 1.1. Context

#### Social, economic and environment

Exploited since 1980s, ramin has been popular for furniture and other indoor ornament and uses. Its economic value has given valuable contribution to local and national economy.

This economic value has forced to excessive harvest including illegal logging. This harvest has caused degradation of habitat and population in Sumatra and Kalimantan. Conversion of ramin habitat to other uses has escalated the decrease in population, which is in turn, will produce negative impact to the environment. This occurs to all species of ramin which have potential for timber.

#### Activity location

Activities are carried out in Bogor, Sumatra (Jambi), West Java, Kalimantan for collecting data and information required for review on the current status of *Gonystylus* species naturally growing in Indonesia.

#### Relevant national and regional policy and programme

Since 2001, ramin as a genus was listed into CITES Appendix III to assist in the trade control by both exporting and importing countries. In 2004, ramin was up-listed into Appendix II. A review and evaluation (assessment) on the current status of CITES is required in order to ensure the SFM and conservation. The up-listing has implication that more requirements must be complied before they are allowed to be harvested and internationally traded. Those requirements include NDF assessment prior to harvest to ensure the effectiveness of the inclusion of the species into CITES.

Indonesia government has set out the program to conserve ramin species, the conservation biodiversity and habitats (PSF). This ITTO-CITES Activity has given valuable contribution in the conservation activities in Indonesia, especially species of ramin.

### 1.2. The Origin and the Main Problem to be Addressed

The Activity is as an addition to the current project of ITTO PD 426/06 Rev.1 (F) – *The Prevention of Further Loss and the Promotion of Rehabilitation and Plantation of Gonystylus spp. (Ramin) in Sumatra and Kalimantan*. This project is being implemented by the Forestry Research and Development Agency (FORDA), Ministry of Forestry Indonesia and focuses only on one species of *Gonystylus*, namely *Gonystylus bancanus*. In fact, *G. bancanus* is the only species which has been widely explored and utilized as a source of timber in Indonesia. As ramin has been listed in the CITES Appendix which includes all species within the genus *Gonystylus*, the information on the current status of ramin other than *G. bancanus* is also important in order to strengthen the conservation and management of all the species within the genus. It is suspected that so far the other species of ramin are mixed in the Mixed Light Hardwood (MLH) in domestic and international trade. There has not been any observation and detail study on the inclusion of ramin other than *G. bancanus* in the MLH. Several species of *Gonystylus* have been recorded to be growing naturally in the lowland and highland forests in Indonesia with some of them growing as woody plants or large trees.

Ramin (*Gonystylus* species) as a genus has been listed in CITES Appendix III since 2001 and then transferred to Appendix II in October 2004 at COP 13 in Bangkok, Thailand and became effective in 2005. According to several authors (Airy Shaw 1972, Soerianegara and Lemmens 1994, Sidiyasa *et al* 2005) and official figures from CITES, the number of species within the genus *Gonystylus* is approximately 30 and even more depending on the author's interpretation

on the species (Table 1). The number of those species recorded growing naturally in Indonesia is 10 with some of them growing as woody plants or large trees. Among these species, only one species, *G. bancanus*, has been widely explored and exploited as a timber source. The remaining species are not clear with regard to their status of population, growing stock and distribution. This also indicates the unclear status of their conservation as well as utilization.

Current efforts to carry out review and field exploration on these species are still insignificant. This issue was raised in the workshop during the ITTO pre-project PPD 87/03 Rev.2 (F) – *Identification of Gonystylus spp. (Ramin), Potency, Distribution, Conservation and Plantation Barrier* and was recognized as a necessary part for future conservation and management of ramin. However, this issue has not been incorporated into the current ITTO project PD 426/06 Rev.1 (F) – *The Prevention of Further Loss and the Promotion of Rehabilitation and Plantation of Gonystylus spp. (Ramin) in Sumatra and Kalimantan* that is being carried out by FORDA.

What will happen if no project intervention? The status of the species other than *G. bancanus* will remain unclear and even may face serious threat with the presence of various disturbances in their natural habitats, such as illegal logging, forest fires, forest encroachment and conversion of forests to other uses.

## 2. ACTIVITY OBJECTIVES AND IMPLEMENTATION STRATEGY

### Rationale:

Ramin has been listed in CITES Appendix as a Genus. The number of species within the *Gonystylus* growing naturally in Indonesia is predicted around 10 species. Current status of these species has not been extensively observed, except *Gonystylus bancanus*. In order to ensure the conservation of the species and to develop management plan, their biological and ecological status needs to be reviewed and explored.

### The objective:

**Development objective:** to contribute to the conservation of ramin species

**Specific objective:** to explore and obtain information on the current status of *Gonystylus* species (non -*G. bancanus*) in Indonesia, which specific reference to their growing stock, population distribution and habitats.

### Adjustment made in the implementation phase:

In order to enhance the findings, several extended activities are conducted, as follows:

- The development of guidebook for ramin species identification.
- The analyses of genetic diversity and genetic relationship between species of ramin
- The development of in-vitro propagation, especially for readily available material
- Capacity building for species identification through a training workshop
- Initial gene pool establishment for ramin *G. bancanus*.

### Implementation strategy:

- Carry out a review the existing literature and other related information, including herbarium specimen
- Expert meeting attended by botanist, taxonomist, ecologist and other relevant expertise
- Develop a guidebook for field species identification for selected individual and institutions.
- Establish initial stage of gene pools for ramin in South Sumatra for Sumatra region and Central Kalimantan, for Kalimantan area.



### Enhance the use of findings through the following:

- The development of guidebook for field identification
- Holding a training workshop on the species identification
- The initial establishment of gene pool for genetic resources conservation

### Assumptions and risks

The Activity has very minimal risks since most of the activities are related to the collection of data through *literature search*, interviews and field visit (survey) in selected areas, especially in For field survey, the accessibility influenced the schedule but did not cause failure in the achievement of the overall Activity objectives.

## 3. ACTIVITY PERFORMANCE

### (i) Performance of each activity

Outputs and Operational Activities	Schedule (Duration)	Applied inputs
<b>Output 1.1. State-of-the-Art- Review on <i>Gonystylus</i> species other than <i>G. bancanus</i></b>		
Activity 1.1.1. To carry out a literature review on <i>Gonystylus</i> species other than <i>G. bancanus</i>	Jan – April 2009	Team leader and members, other labors. National Expert Dr. Teguh Triono, CITES-SA
Activity 1.1.2. To carry out a workshop on the availability of information	Mar – May 2009	Similar to Activity 1.1.1.
<b>Output 1.2. The current growing stock, population distribution and habitats of non-<i>G. bancanus</i> species</b>		
Activity 1.2.1. To carry out a field survey of the target species at the chosen sites	May – Jul 2009	Similar to Activity 1.1.1.
Activity 1.2.2. To carry out a workshop on follow-up actions	Aug – Oct 2009	National Expert of Activity 1.1.1., Invited speakers, stakeholders and other participants
<b>Extended Additional Activities</b>		
Activity 1.1. Further analyses of genetic relationship between species and in-vitro propagation of <i>Gonystylus</i> spp	Extended to June 2010	Team leader and members. National Expert: Dr. Anthonius YPBC Widyatmoko and Ms. Yelnitities, FORDA
Activity 1.2. Developing guidebook for species identification and holding a training workshop on species identification for field staff	Feb-April 2010	National Expert: Dr. Kade Sidiyasa, FORDA
Activity 1.3. The initial establishment of ramin gene pool in South Sumatra and Sebangau National Park, Central Kalimantan	Feb-Jun 2010	Cooperation with RRC-South Sumatra and RRC South Kalimantan

### (ii) Output achievement

There are several outputs achieved: Current status of population, distribution, habitat and potential standing stock of non - *G. bancanus* species. In addition, three activities were carried out in extended additional activities which strengthen the Output achieved earlier. Further genetic analyses, as carried out in the earlier stage by Dr. Anthonius YPBC Widyatmoko and

the continued development of in-vitro propagation (tissue culture), both from CBTI-Yogyakarta. The findings of these two activities are expected to be published in scientific journal, proceeding seminars and or other means which is expected to reach wider scientific community. Technical reports have been provided.

In addition to the technical report as a result of previous activity, a guidebook for field identification of ramin species is also developed. This guidebook contains technical guideline to determine species within *Gonystylus* growing naturally in Indonesia, not just *G. bancanus*. The use of this guideline by field activities (staff) is expected to quickly assist in species identification and also assist in the management plan, for which ramin species have been listed in CITES Appendix. This also encourages the awareness that conservation effort need to be taken.

Several Activity outputs are:

1. *Literature review on Gonystylus spp. other than Gonystylus bancanus: Botany, Ecology and Potency*
2. *Evaluation on Species Diversity, Population, Habitat, and Regeneration Status of Selected Gonystylus Species (Non – Gonystylus bancanus). (Evaluasi Kelimpahan Jenis, Populasi, Habitat dan Status Regenerasi Beberapa Jenis Gonystylus terpilih (Non - Gonystylus bancanus))*
3. *Genetic relationship between species of Gonystylus spp.*
4. *Embriogenic Callus Induction Effort from Ramin Shoot (Upaya Induksi Kalus Embriogenik dari Potongan Daun Ramin).*
5. *Guidebook for field identification of ramin species (Gonystylus spp.) in Indonesia (Panduan Identifikasi Jenis-Jenis Ramin (Gonystylus spp.) di Indonesia).*

### **Gene pool establishment**

In order to enhance conservation of ramin genetic resource and to rescue the natural seedlings (wildlings) in conversion area of PSF, it is important to collect and pool the genetic materials in secure location, ideally in nearly similar PSF. These genetic materials could be further used as sources of shoots for vegetative propagation and sources of genetic materials for selection in tree improvement program. The genetic materials are randomly collected from the natural sources.

Until today, there are three locations have been identified and the initial establishment have been started. Kedaton, Ogan Komering Ilir (OKI) of South Sumatra has been selected for this purpose to replace poor accessible Merang Kepahyang or originally planned. Two other sites are Sebangau National Park and Tumbang Nusa (Research Station), both are located in Central Kalimantan. Ten ha of PSF in Kedaton (OKI) has been chosen for ramin gene pool establishment and other related activities for ramin. Administrative work (legal process) to free the area from other activities other than ramin work has been executed under ITTO-CITES Activity. Two ha out of ten ha has been cleared and planted with ramin genetic materials collected earlier and the remaining 8 ha will be used for plantation trial using seedling raised from seed and vegetative shoot propagation.

Five ha in Sebangau National Park has been identified and selected for gene pool establishment. Initial collection and plantation of the genetic materials have been carried out. In this area, at least 4,000 genetic materials collected from the surrounding areas have been planted (pooled).

Two ha of gene pool with at least 1,500 genetic materials (wildling) has also been established in Tumbang Nusa Research Station. In addition, approximately 6,000 genetic materials (wildlings) have also been pooled in this station with special treatment and management as Hedge Orchard or sources of shoot for vegetative propagation. The genetic materials are arranged in

six lanes of 4 m and 50 m long, and planted with spacing of 0.5m x 0,5m. The total area occupied is 1,200 m<sup>2</sup>.

By the establishment of these gene pools, there are at least 8,000 vegetative shoots (80% harvestable shoot cuttings) could be cut a year and 6,000 vegetative seedling could be produced a year. Using 3 x 3 meter spacing, at least 6 ha of PSF could be rehabilitated and planted per year without frustrating of waiting for seed.

The gene pool establishment in OKI (South Sumatra) is coordinated and further managed in cooperation with Regional Research Center (FORDA) South Sumatra, based in Palembang, South Sumatra. The gene pool establishment in Sebangau National Park is executed and further managed by office of Sebangau National Park under coordination and cooperation with Regional Research Center-FORDA South Kalimantan. Other gene pool and seedling collection (Hedge Orchard) in Tumbang Nusa Research Station are executed and further managed under coordination and cooperation with Regional Research Center-South Kalimantan, based in Banjarbaru (South Kalimantan).

### **Total amount of expenditures and analysis**

From the ITTO contribution of US\$ 128,600.00 at total of US\$ 126,925.57 was spent while leaving a balance of US\$ 1,878.45 (including interest bank rate) as reflected in the 'Activity Financial Statement - ITTO contribution' and the 'Activity Cash Flow Statement -ITTO contribution' in **Annex 1 and 2**. In this regard from the in-kind contribution of US\$ 33,090.00 from Indonesia, a total of US\$ 33,090.00 was spent as shown in the 'Activity Financial Statement – Government of Indonesia (GoI) contribution' and the 'Activity Cash Flow Statement -GoI contribution' in **Annex 3 and 4**.

#### Note:

All inquiries regarding the expenses for sub contracts please contact:

- 1 Activity 1.1.1. Dr. Teguh Triono  
Indonesian Institute of Sciences  
Botanical Division, Research Center for Biology  
Jln. Raya Jakarta-Bogor Km 46  
Cibinong Bogor  
Indonesia  
Tel: (62 – 21) 876-5058; Fax: (62 – 21) 876-5062
  
- 2 Activity 1.2.1
  1. Dr. Teguh Triono  
Indonesian Institute of Sciences  
Botanical Division, Research Center for Biology  
Jln. Raya Jakarta-Bogor Km 46  
Cibinong, Bogor  
Tel: (62 – 21) 876-5058; Fax: (62 – 21) 876-5062
  
  2. Dr. Anthonius Y.P.B.C Widyatmoko  
Biotechnology and Tree Improvement Research and  
Development  
Jl. Palagan Tentara Pelajar Km. 15  
Purwobinangun, Pakem, Sleman  
Yogyakarta – 55582  
Tel: (62 - 274) 896080; Fax: (62 – 274) 895954

- 3 Additional Activity 1.1.
1. Dr. Anthonius Y.P.B.C Widyatmoko  
Biotechnology and Tree Improvement Research and Development  
Jl. Palagan Tentara Pelajar Km. 15  
Purwobinangun, Pakem, Sleman  
Yogyakarta – 55582  
Tel: (62 - 274) 896080; Fax: (62 – 274) 895954
  2. Ms. Yelnities  
Biotechnology and Tree Improvement Research and Development  
Jl. Palagan Tentara Pelajar Km. 15  
Purwobinangun, Pakem, Sleman  
Yogyakarta – 55582  
Tel: (62 - 274) 896080; Fax: (62 – 274) 895954
4. Additional Activity 1.3.
1. Dr. Endang Savitri, Mr. Rusmana and Mr. Riswan Ariani  
Regional Research Center of Banjarbaru  
Jl Ahmad Yani Km 28.7  
Landasan Ulin – Banjarbaru  
Tel/Fax: (62 – 511) 4707872
  2. Dr. Sumantri  
Sebangau National Park  
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  3. Mr. Suhariyanto  
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Jl. Kol H. Burlian Km. 6,5  
Puntikayu – Palembang  
Tel/Fax : (62 – 711) 414864

#### **4. ACTIVITY OUTCOME, TARGET BENEFICIARIES INVOLVEMENT**

##### **4.1. The Achievement of Specific Objectives**

###### **Outputs**

The above objectives have been achieved through the production of five tangible outputs.

###### **The impact/outcome.**

- Awareness raising and capacity building of relevant stakeholders.
- Dissemination of activity outputs (current status of *Gonystylus* spp., and a guidebook for identification, NDF guideline and gene pool establishment)

**4.2. Situation at Activity Completion** as compared to the pre- Activity situation (the tangible Outputs of the Activity, sectoral policies and programs; and the physical environment)

Some Activity outputs and finding provides valuable inputs to CITES management and scientific authority and other relevant stakeholders for the follow-up. It is expected that the data and information produced will be utilized for setting development plan in the conservation and protection of *Gonystylus* spp.

**4.3. Participation of the Target Beneficiaries** had in the implementation of the Activity and how its results have been used by them or will be used in the future

CITES-SA and CITES-MA, FORDA as key stakeholders involved in operational of activities. CITES-SA, Dr. Teguh Triono and some members, involved directly from the beginning until the completion of the Activity. It is expected that some follow up action will be carried by the institutions, especially data and information produced for setting development plan in the conservation and protection of *Gonystylus* spp.

**4.4. Expectation of Activity Sustainability after Activity Completion**

The Activity findings are very valuable for setting activity programs for management, conservation and protection and setting immediate actions. Therefore, there is likely that the Activity findings and outputs will be utilized by relevant stakeholders.

**5. ASSESSMENT AND ANALYSIS**

- (i) The Activity design has been efficient in the achieving the Activity objectives and to answer key issues.
- (ii). Implementation strategies which have been taken, through desk study, field survey and stakeholder consultation (meetings) have been effective in the execution of operational activities.
- (iii). The Activity execution has been in accordance with the expectation made during the Activity identification process with adequate involvement of most stakeholders, the problems raised and the outputs achieved.
- (iv). Activity was implemented on schedule including the extended additional activities. A number of qualified personnel from FORDA and CITES-SA involved in the activities. No major equipment purchased in this activity.
- (vi). Most of relevant stakeholder including regulator involved in the Activity in various ways, primarily in discussion meeting and workshops.

**6. LESSONS LEARNED**

- Several stakeholders identified are Ministry of Forestry as regulator, Provincial and District Forest Services, Scientific and Management Authorities of CITES and concession companies involved in the activities. Other research institution and university also involved.

- Arrangements made in the implementation of activities are through the formation of a team work consisting of senior researchers of FORDA, CITES-SA and Activity staff. The team work carried out the desk study, the field survey and discussion meeting on the finding obtained in the workshop and or meeting organized by the Activity. Senior researchers were appointed to be national expert and as a team leader in the activities.
- Activity design which consisted of desk study (review and evaluation) field survey and workshops (meetings) participated by relevant stakeholders has been appropriate to achieve the specific objective of the Activity.
- The implementation of Activity met between planned and actual implementation. The Activity has been executed more efficiently and additional extended activities were carried out to strengthen the findings.
- In this Activity discussion meeting on the technical reports prepared by national experts, draft of paper or technical guideline were carried out in order to have better result, wider involvement of stakeholders and to receive various inputs from experienced field staffs.
- The follow up action to the findings of the Activity will be very much dependent on the dissemination of results to the stakeholders. It is important to note that the discussions and the workshop carried out are parts of important awareness raising and capacity building. These awareness raising and capacity building will have potential for the future use in their institutions.

#### **Activity organization and management**

The organization and the management of this Activity have been sufficient to organize the operational activities.

#### **Flow of funds**

The flow and the use of Activity fund have been appropriate to enable the implementation of activities. There was some unspent fund left from the original planned activities and used in the extended additional activities.

#### **Definition of the roles and responsibilities of the institutions involved in the Activity implementation**

In this Activity, Center for Forest and Nature Conservation R&D (CFNCRD), FORDA, is the executing agency of this Activity. All decision regarding the activities, direction and the appointment of Activity staffs, team leader and national experts are in close consultation with CFNCRD directors. Consultation was also conducted to Division of Research Cooperation of FORDA (KPI), especially for meeting arrangement, review and evaluation of activity activities. Technical and financial reports are also forwarded to both CFNCRD and KPI for records, consideration and further action.

The Activity formed a team in the execution of the activities lead by Dr. Teguh Triono of Indonesian Institute of Science (LIPI), which is CITES Scientific Authority. National Experts are Dr. Kade Sidiyasa (FORDA-Kalimantan), Dr. Anthonius YPBC Widyatmoko (CBTI, FORDA Yogyakarta), Ms. Yelnities (CBTI, FORDA-Yogyakarta) and members of the team were scientists from LIPI and FORDA.

#### **Activity documentation**

All documents of the activities are kept in Activity secretariat and CFNCRD for records. In this Activity, 4 technical reports, 1 technical guideline.

List of technical reports and other documents are as listed above.

## **Monitoring and evaluation**

Internal monitoring and evaluation by FORDA has been organized within FORDA by inviting all relevant stakeholders.

During the implementation of the Activity there are three monitoring and evaluation of the Activity by ITTO, which were before the actual execution of the Activity (Independent monitoring mission by EC (Ms. Anne Martin) and Regional Activity Coordinator - Mr. Thang HC, in September 2008), in the mid period of the Activity (independent monitoring mission by EC (Ms Anne Martin) and Regional activity coordinator - Mr. Thang HC, September 2009 and Monitoring mission by ITTO Jorge Maleux, October 2009) and at the end of the Activity (by Regional Activity Coordinator-Mr. Thang HC, August-September 2010).

### **External factors that influenced the Activity implementation and that could have been foreseen and that could not have been foreseen**

External factors that influenced the Activity implementation are the involvement of relevant stakeholders and the remote areas surveyed sites. The execution was on tract. The stakeholders are CITES-MA and CITES-SA and other key stakeholders. Some outputs require support from relevant authorities for its effective uses, such as guidelines for species identification, NDF assessment etc.

## **7. CONCLUSIONS AND RECOMMENDATIONS**

The Activity objective has been successfully achieved in accordance with the problem raised in the Activity document, with full involvement of stakeholders, wise use of resources to produce the outputs. Due to the widest geographical range of distribution, it is recommended that follow up activities need to be carried out in different geographical zone.

### **Responsible for the Report**



Name: Tajudin Edy Komar  
Date : 25 November 2010

Position held: Project Coordination Team

## Annex 1. Activity Financial Statement – ITTO Contribution

**Programme Title:** Ensuring International Trade in Cites-Listed Timber Spesies is Consistent with their Sustainable Management and Conservation **Period ending on:** 30 September 2010

**Activity No.** Activity Document III

**Activity Title:** Exploratory assessment on the population distribution and potential uses of non-*Gonystylus bancanus* species in Indonesia

Component	Original Amount (A)	Expenditure To-date			Available Funds (E) (A-D)
		Accrued (B)	Expended (C)	Total Expended D (B+C)	
<b>I. Funds managed by Executing Agency</b>					
<b>10. Personnel</b>					
11. National Expert	\$ 5,420.00	\$ -	\$ 5,420.00	\$ 5,420.00	\$ -
12. Other Labor	\$ 560.00	\$ -	\$ 556.40	\$ 556.40	\$ 3.60
13. Project Coordinator	\$ 3,500.00	\$ -	\$ 3,500.00	\$ 3,500.00	\$ -
14. Project Secretary	\$ 1,050.00	\$ -	\$ 1,050.00	\$ 1,050.00	\$ -
15. Team Leaders	\$ 4,000.00	\$ -	\$ 4,000.00	\$ 4,000.00	\$ -
16. Project Finance	\$ 700.00	\$ -	\$ 700.00	\$ 700.00	\$ -
<b>17. Personnel Total</b>	<b>\$ 15,230.00</b>	<b>\$ -</b>	<b>\$ 15,226.40</b>	<b>\$ 15,226.40</b>	<b>\$ 3.60</b>
<b>18. Workshop/Seminar and Training</b>					
18.1 Travel and Transportation Cost	\$ 2,300.00	\$ -	\$ 2,233.59	\$ 2,233.59	\$ 66.41
18.2 Daily Subsistence Allowance	\$ 1,500.00	\$ -	\$ 1,488.49	\$ 1,488.49	\$ 11.51
18.3 Venue and Logistic	\$ 2,900.00	\$ -	\$ 2,828.66	\$ 2,828.66	\$ 71.34
18.4 Workshop materials	\$ 1,100.00	\$ -	\$ 1,055.57	\$ 1,055.57	\$ 44.43
18.5 Others	\$ 3,000.00	\$ -	\$ 2,892.80	\$ 2,892.80	\$ 107.20
<b>18.9. Training/Workshop Total</b>	<b>\$ 10,800.00</b>	<b>\$ -</b>	<b>\$ 10,499.11</b>	<b>\$ 10,499.11</b>	<b>\$ 300.89</b>
<b>20. Sub-contract</b>					
21. Sub-contract to conduct activity 1.1.1 by Dr. Teguh Triono	\$ 4,340.24	\$ -	\$ 4,340.24	\$ 4,340.24	\$ -
22. Sub-contract to conduct activity 1.2.1 by Dr. Teguh Triono	\$ 42,200.00	\$ -	\$ 42,192.56	\$ 42,192.56	\$ 7.44
23. Sub-contract to conduct activity 1.2.1 by Dr. AYPBC Widyatmoko	\$ 3,700.00	\$ -	\$ 3,700.00	\$ 3,700.00	\$ -
24. Sub-contract to conduct additional activity 1.1 -BPK Palembang	\$ 1,150.00	\$ -	\$ 1,150.00	\$ 1,150.00	\$ -
25. Sub-contract to conduct additional activity 1.1. by Dr. AYPBC Widyatmoko	\$ 4,000.00	\$ -	\$ 4,000.00	\$ 4,000.00	\$ -
26. Sub-contract to conduct additional activity 1.1. by Ms. Yelnitities	\$ 4,000.00	\$ -	\$ 3,999.88	\$ 3,999.88	\$ 0.12
27. Sub-contract to conduct additional activity 1.3. - Sebangau NP	\$ 9,900.00	\$ -	\$ 9,900.37	\$ 9,900.37	(\$ 0.37)
28. Sub-contract to conduct additional activity 1.3. - BPK Banjarbaru	\$ 4,900.00	\$ -	\$ 4,899.78	\$ 4,899.78	\$ 0.22
29. Sub-contract to conduct additional activity 1.3. by Mr. Riswan Ariyani	\$ 6,098.90	\$ -	\$ 6,098.50	\$ 6,098.50	\$ 0.40
<b>210. Component Total</b>	<b>\$ 80,289.14</b>	<b>\$ -</b>	<b>\$ 80,281.33</b>	<b>\$ 80,281.33</b>	<b>\$ 7.81</b>
<b>30. Duty Travel</b>					
31. DSA	\$ 5,530.86	\$ -	\$ 5,420.00	\$ 5,420.00	\$ 110.86
32. Return Ticket	\$ 2,300.00	\$ -	\$ 2,300.00	\$ 2,300.00	\$ -
33. Local Transport	\$ 1,300.00	\$ -	\$ 1,236.21	\$ 1,236.21	\$ 63.79
<b>39. Component Total</b>	<b>\$ 9,130.86</b>	<b>\$ -</b>	<b>\$ 8,956.21</b>	<b>\$ 8,956.21</b>	<b>\$ 174.65</b>



<b>40. Capital Items</b>					
41. Office space	\$ -	\$ -	\$ -	\$ -	\$ -
42. Capital equipment (computer notebook)	\$ 1,500.00	\$ -	\$ 1,469.24	\$ 1,469.24	\$ 30.76
43. Vehicles	\$ -	\$ -	\$ -	\$ -	\$ -
<b>49. Component Total</b>	<b>\$ 1,500.00</b>	<b>\$ -</b>	<b>\$ 1,469.24</b>	<b>\$ 1,469.24</b>	<b>\$ 30.76</b>
<b>50. Consumable Items</b>					
51. Fuel and Utilities	\$ 450.00	\$ -	\$ 413.46	\$ 413.46	\$ 36.54
52. Office supplies	\$ 450.00	\$ -	\$ 412.46	\$ 412.46	\$ 37.54
53. Other consumable items	\$ 250.00	\$ -	\$ 153.05	\$ 153.05	\$ 96.95
<b>59. Component Total</b>	<b>\$ 1,150.00</b>	<b>\$ -</b>	<b>\$ 978.97</b>	<b>\$ 978.97</b>	<b>\$ 171.03</b>
<b>60. Miscellaneous</b>					
61. Sundry	\$ 500.00	\$ -	\$ 231.40	\$ 231.40	\$ 268.60
62. Printing and Editing	\$ 5,000.00	\$ -	\$ 4,655.54	\$ 4,655.54	\$ 344.46
63. Other miscellaneous	\$ 5,000.00	\$ -	\$ 4,627.37	\$ 4,627.37	\$ 372.63
<b>69. Component Total</b>	<b>\$ 10,500.00</b>	<b>\$ -</b>	<b>\$ 9,514.31</b>	<b>\$ 9,514.31</b>	<b>\$ 985.69</b>
<b>Grand Total</b>	<b>\$ 128,600.00</b>	<b>\$ -</b>	<b>\$ 126,925.57</b>	<b>\$ 126,925.57</b>	<b>\$ 1,670.83</b>

## Annex 2. Activity Cash Flow Statement – ITTO Contribution

**Programme Title:** Ensuring International Trade in Cites-Listed Timber Spesies is Consistent with their Sustainable Management and Conservation **Period ending on:** 30 September 2010

**Activity No.** Activity Document III

**Activity Title:** Exploratory assessment on the population distribution and potential uses of non-*Gonystylus bancanus* species in Indonesia

Component	Reference	Date	Amount	
			in US \$	Local Currency
<b>A. Fund received from ITTO</b>				
1. First Installment	G0183471864001	December 15, 2008	\$ 54,034.00	Rp 599,777,400.00
2. Second Installment	G0193220746301	November 19, 2009	\$ 57,821.00	Rp 547,564,870.00
3. Third Installment	G0191670549901	June 16, 2009	\$ 6,700.00	Rp 68,273,000.00
4. Four Installment	G0101970704701	July 19, 2010	\$ 10,045.00	Rp 91,168,420.00
5. Interest bank deposit*)			\$ 204.02	Rp 2,263,928.37
6. Losses on exchange rate				Rp (50,932,778.37)
Total Funds Received:			<b>\$ 128,804.02</b>	<b>Rp 1,258,114,840.00</b>
<b>B. Expenditures (by Executing Agency):</b>				
<b>10. Personnel</b>				
11. National Expert			\$ 5,420.00	Rp 52,262,000.00
12. Other Labor			\$ 556.40	Rp 5,079,000.00
13. Project Coordinator			\$ 3,500.00	Rp 31,832,500.00
14. Project Secretary			\$ 1,050.00	Rp 9,549,750.00
15. Team Leaders			\$ 4,000.00	Rp 42,135,000.00
16. Project Finance			\$ 700.00	Rp 6,366,500.00
<b>17. Personnel Total</b>			<b>\$ 15,226.40</b>	<b>Rp 147,224,750.00</b>
<b>18. Workshop/Seminar and training</b>				
18.1 Travel and Transportation Cost			\$ 2,233.59	Rp 21,891,100.00
18.2 Daily Subsistence Allowance			\$ 1,488.49	Rp 15,365,200.00
18.3 Venue and Logistic			\$ 2,828.66	Rp 27,544,278.00
18.4 Workshop materials			\$ 1,055.57	Rp 10,247,650.00
18.5 Others			\$ 2,892.80	Rp 28,018,975.00
<b>19. Training/Workshop Total</b>			<b>\$ 10,499.11</b>	<b>Rp 103,067,203.00</b>
<b>20. Sub-contract</b>				
21. Sub-contract to conduct activity 1.1.1 by Dr. Teguh Triono			\$ 4,340.24	Rp 49,072,469.00
22. Sub-contract to conduct activity 1.2.1 by Dr. Teguh Triono			\$ 42,192.56	Rp 432,114,995.00
23. Sub-contract to conduct activity 1.2.1 by Dr. AYPBC Widyatmoko			\$ 3,700.00	Rp 36,963,000.00
24. Sub-contract to conduct additional activity 1.1 -BPK Palembang			\$ 1,150.00	Rp 10,430,500.00
25. Sub-contract to conduct additional activity 1.1. by Dr. AYPBC Widyatmoko			\$ 4,000.00	Rp 36,960,000.00
26. Sub-contract to conduct additional activity 1.1. by Ms. Yelnitities			\$ 3,999.88	Rp 36,958,800.00
27. Sub-contract to conduct additional activity 1.3. - Sebangau NP			\$ 9,900.37	Rp 89,796,550.00
28. Sub-contract to conduct additional activity 1.3. - BPK Banjarbaru			\$ 4,899.78	Rp 44,294,100.00
29. Sub-contract to conduct additional activity 1.3. by Mr. Riswan Ariyani			\$ 6,098.50	Rp 55,496,205.00
<b>210. Component Total</b>			<b>\$ 80,281.33</b>	<b>Rp 792,086,619.00</b>

<b>30. Duty Travel</b>				
31. DSA			\$ 5,420.00	Rp 50,420,100.00
32. Return Ticket			\$ 2,300.00	Rp 21,484,800.00
33. Local Transport			\$ 1,236.21	Rp 12,042,444.00
<b>39. Component Total</b>			<b>\$ 8,956.21</b>	<b>Rp 83,947,344.00</b>
<b>40. Capital Items</b>				
41. Office space			\$ -	Rp -
42. Capital equipment (computer notebook)			\$ 1,469.24	Rp 16,000,000.00
43. Vehicles			\$ -	Rp -
<b>49. Component Total</b>			<b>\$ 1,469.24</b>	<b>Rp 16,000,000.00</b>
<b>50. Consumable Items</b>				
51. Fuel and Utilities			\$ 413.46	Rp 4,044,000.00
52. Office supplies			\$ 412.46	Rp 3,892,500.00
53. Other consumable items			\$ 153.05	Rp 1,473,000.00
<b>59. Component Total</b>			<b>\$ 978.97</b>	<b>Rp 9,409,500.00</b>
<b>60. Miscellaneous</b>				
61. Sundry			\$ 231.40	Rp 2,144,000.00
62. Printing and Editing			\$ 4,655.54	Rp 43,840,000.00
63. Other miscellaneous			\$ 4,627.37	Rp 43,639,650.00
<b>69. Component Total</b>			<b>\$ 9,514.31</b>	<b>Rp 89,623,650.00</b>
<b>Total Expenditures To-date:</b>			<b>\$ 126,925.57</b>	<b>Rp 1,241,359,066.00</b>
<b>Remaining Balance of Funds (A-B) :</b>			<b>\$ 1,878.45</b>	<b>Rp 16,755,744.00</b>

Notes: Cash flow statement period 15 December 2008- 30 September 2010

\*) Interest bank rate until 30 September 2010

### Annex 3. Activity Financial Statement – Gol in kind Contribution

**Programme Title:** Ensuring International Trade in Cites-Listed Timber Spesies is Consistent with their Sustainable Management and Conservation **Period ending on:** 30 September 2010

**Activity No.** Activity Document III

**Activity Title:** Exploratory assessment on the population distribution and potential uses of non-*Gonystylus bancanus* species in Indonesia

Component	Original Amount (A)	Expenditure To-date			Available Funds (E) (A-D)
		Accrued (B)	Expended (C)	Total Expended D (B+C)	
<b>I. Funds managed by Executing Agency</b>					
<b>10. Personnel</b>					
11. National Expert	\$ -	\$ -	\$ -	\$ -	\$ -
12. Other Labor	\$ -	\$ -	\$ -	\$ -	\$ -
13. Project Coordinator	\$ -	\$ -	\$ -	\$ -	\$ -
14. Project Secretary	\$ -	\$ -	\$ -	\$ -	\$ -
15. Team Leaders	\$ -	\$ -	\$ -	\$ -	\$ -
16. Project Finance	\$ -	\$ -	\$ -	\$ -	\$ -
<b>17. Personnel Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>18. Workshop/Seminar and Training</b>					
18.1 Travel and Transportation Cost	\$ -	\$ -	\$ -	\$ -	\$ -
18.2 Daily Subsistence Allowance	\$ -	\$ -	\$ -	\$ -	\$ -
18.3 Venue and Logistic	\$ -	\$ -	\$ -	\$ -	\$ -
18.4 Workshop materials	\$ -	\$ -	\$ -	\$ -	\$ -
18.5 Others	\$ -	\$ -	\$ -	\$ -	\$ -
<b>18.9. Training/Workshop Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>20. Sub-contract</b>					
21. Sub-contract to conduct activity 1.1.1 by Dr. Teguh Triono	\$ -	\$ -	\$ -	\$ -	\$ -
22. Sub-contract to conduct activity 1.2.1 by Dr. Teguh Triono	\$ -	\$ -	\$ -	\$ -	\$ -
23. Sub-contract to conduct activity 1.2.1 by Dr. AYPBC Widyatmoko	\$ -	\$ -	\$ -	\$ -	\$ -
24. Sub-contract to conduct additional activity 1.1 -BPK Palembang	\$ -	\$ -	\$ -	\$ -	\$ -
25. Sub-contract to conduct additional activity 1.1. by Dr. AYPBC Widyatmoko	\$ -	\$ -	\$ -	\$ -	\$ -
26. Sub-contract to conduct additional activity 1.1. by Ms. Yelnities	\$ -	\$ -	\$ -	\$ -	\$ -
27. Sub-contract to conduct additional activity 1.3. - Sebangau NP	\$ -	\$ -	\$ -	\$ -	\$ -
28. Sub-contract to conduct additional activity 1.3. - BPK Banjarbaru	\$ -	\$ -	\$ -	\$ -	\$ -
29. Sub-contract to conduct additional activity 1.3. by Mr. Riswan Ariyani	\$ -	\$ -	\$ -	\$ -	\$ -
<b>210. Component Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>30. Duty Travel</b>					
31. DSA	\$ -	\$ -	\$ -	\$ -	\$ -
32. Return Ticket	\$ -	\$ -	\$ -	\$ -	\$ -
33. Local Transport	\$ -	\$ -	\$ -	\$ -	\$ -
<b>39. Component Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

<b>40. Capital Items</b>					
41. Office space	\$ 10,000.00	\$ -	\$ 10,000.00	\$ 10,000.00	\$ -
42. Capital equipment (computer notebook)	\$ -	\$ -	\$ -	\$ -	\$ -
43. Vehicles	\$ 2,000.00	\$ -	\$ 2,000.00	\$ 2,000.00	\$ -
<b>49. Component Total</b>	<b>\$ 12,000.00</b>	<b>\$ -</b>	<b>\$ 12,000.00</b>	<b>\$ 12,000.00</b>	<b>\$ -</b>
<b>50. Consumable Items</b>					
51. Fuel and Utilities	\$ -	\$ -	\$ -	\$ -	\$ -
52. Office supplies	\$ -	\$ -	\$ -	\$ -	\$ -
53. Other consumable items	\$ -	\$ -	\$ -	\$ -	\$ -
<b>59. Component Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>60. Miscellaneous</b>					
61. Sundry	\$ -	\$ -	\$ -	\$ -	\$ -
62. Printing and Editing	\$ -	\$ -	\$ -	\$ -	\$ -
63. Other miscellaneous	\$ -	\$ -	\$ -	\$ -	\$ -
<b>69. Component Total</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>70. Executing Agency Management Cost</b>	\$ 21,090.00	\$ -	\$ 21,090.00	\$ 21,090.00	\$ -
<b>79. Component total</b>	<b>\$ 21,090.00</b>	<b>\$ -</b>	<b>\$ 21,090.00</b>	<b>\$ 21,090.00</b>	<b>\$ -</b>
<b>Grand Total</b>	<b>\$ 33,090.00</b>	<b>\$ -</b>	<b>\$ 33,090.00</b>	<b>\$ 33,090.00</b>	<b>\$ -</b>

## Annex 4. Activity Cash Flow Statement – Gol in kind Contribution

**Programme Title:** Ensuring International Trade in Cites-Listed Timber Spesies is Consistent with their Sustainable Management and Conservation **Period ending on:** 30 September 2010

**Activity No.** Activity Document III

**Activity Title:** Exploratory assessment on the population distribution and potential uses of non-*Gonystylus bancanus* species in Indonesia

Component	Reference	Date	Amount	
			in US \$	Local Currency
<b>A. Fund received from ITTO</b>				
1. First Installment			\$ 12,000.00	Rp 130,680,000.00
2. Second Installment			\$ 21,090.00	Rp 229,670,100.00
<b>Total Funds Received:</b>			<b>\$ 33,090.00</b>	<b>Rp 360,350,100.00</b>
<b>B. Expenditures (by Executing Agency):</b>				
<b>10. Personnel</b>				
11. National Expert			\$ -	Rp -
12. Other Labor			\$ -	Rp -
13. Project Coordinator			\$ -	Rp -
14. Project Secretary			\$ -	Rp -
15. Team Leaders			\$ -	Rp -
16. Project Finance			\$ -	Rp -
<b>17. Personnel Total</b>			<b>\$ -</b>	<b>Rp -</b>
18. Workshop/Seminar and training				
18.1 Travel and Transportation Cost			\$ -	Rp -
18.2 Daily Subsistence Allowance			\$ -	Rp -
18.3 Venue and Logistic			\$ -	Rp -
18.4 Workshop materials			\$ -	Rp -
18.5 Others			\$ -	Rp -
<b>19. Training/Workshop Total</b>			<b>\$ -</b>	<b>Rp -</b>
<b>20. Sub-contract</b>				
21. Sub-contract to conduct activity 1.1.1 by Dr. Teguh Triono			\$ -	Rp -
22. Sub-contract to conduct activity 1.2.1 by Dr. Teguh Triono			\$ -	Rp -
23. Sub-contract to conduct activity 1.2.1 by Dr. AYPBC Widyatmoko			\$ -	Rp -
24. Sub-contract to conduct additional activity 1.1 -BPK Palembang			\$ -	Rp -
25. Sub-contract to conduct additional activity 1.1. by Dr. AYPBC Widyatmoko			\$ -	Rp -
26. Sub-contract to conduct additional activity 1.1. by Ms. Yelnities			\$ -	Rp -
27. Sub-contract to conduct additional activity 1.3. - Sebangau NP			\$ -	Rp -
28. Sub-contract to conduct additional activity 1.3. - BPK Banjarbaru			\$ -	Rp -
29. Sub-contract to conduct additional activity 1.3. by Mr. Riswan Ariyani			\$ -	Rp -
<b>210. Component Total</b>			<b>\$ -</b>	<b>Rp -</b>
<b>30. Duty Travel</b>				
31. DSA			\$ -	Rp -
32. Return Ticket			\$ -	Rp -
33. Local Transport			\$ -	Rp -
<b>39. Component Total</b>			<b>\$ -</b>	<b>Rp -</b>

<b>40. Capital Items</b>				
41. Office space			\$ 10,000.00	Rp 108,900,000.00
42. Capital equipment (computer notebook)			\$ -	Rp -
43. Vehicles			\$ 2,000.00	Rp 21,780,000.00
<b>49. Component Total</b>			<b>\$ 12,000.00</b>	<b>Rp 130,680,000.00</b>
<b>50. Consumable Items</b>				
51. Fuel and Utilities			\$ -	Rp -
52. Office supplies			\$ -	Rp -
53. Other consumable items			\$ -	Rp -
<b>59. Component Total</b>			<b>\$ -</b>	<b>Rp -</b>
<b>60. Miscellaneous</b>				
61. Sundry			\$ -	Rp -
62. Printing and Editing			\$ -	Rp -
63. Other miscellaneous			\$ -	Rp -
<b>69. Component Total</b>			<b>\$ -</b>	<b>Rp -</b>
<b>70. Executing Agency Management Cost</b>			\$ 21,090.00	Rp 229,670,100.00
<b>79. Component Total</b>			<b>\$ 21,090.00</b>	<b>Rp 229,670,100.00</b>
<b>Total Expenditures To-date:</b>			<b>\$ 33,090.00</b>	<b>Rp 360,350,100.00</b>
<b>Remaining Balance of Funds (A-B) :</b>			<b>\$ -</b>	<b>Rp -</b>

Notes: Cash flow statement period 15 December 2008- 30 September 2010