ECONOMIC IMPACT OF THE IMPLEMENTATION OF CHAIN OF CUSTODY (CoC) CERTIFICATION IN SAWMILLING IN MALAYSIA

By

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Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Fulfillment of the Requirements for the Degree of Master Science

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Specially Dedicated to:

My beloved father Ab Ghani b. Awang Ahmad and mother Norizan bt. Abd Rahman
Abstract of thesis presented to the Senate of Universiti Putra Malaysia in
fulfilment of the requirement for the degree of Master Science

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Chairman: Prof. Mohd Shahwahid Bin Hj Othman, PhD
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Chain of Custody (CoC) certification has influenced the market of forest
products since the establishment of forest certification in early the 1990s. CoC
certification is one way for companies to promote and market their forest
products from a sustainably managed forest. Furthermore, the supply and
demand of certified forest products have also grown significantly corresponding
to the increase in the numbers of certified companies. However, the costs of
CoC certification are perceived to be crucial for the companies to become
certified.

The main objective of this study is to determine the costs of obtaining a CoC
certification from the MTCC for sawmills and to estimate the economic impact of
CoC certification in sawmilling in Malaysia. A survey was conducted on
sawmilling companies with CoC certificate from the MTCC. The results from the data analysis indicate that there exist three types of cost in obtaining the MTCC-CoC certificates namely (i) cost to meet CoC standard or requirement, (ii) auditing cost and (iii) surveillance visit cost. Cost to meet the CoC standard is categorized as an indirect cost and was the major certification cost (95% of the total cost of certification) whereas auditing cost and surveillance visit cost are direct costs for the firms. It is argued that, these costs mainly depend on the size of the companies. However, the chi squares test has found that the relationship between costs of CoC certification with the size of companies, as measured by total workforce and annual sales turnover is not significant in the case of sawmills. Estimations of econometric relationships also shows that the cost in obtaining CoC certification for sawmills is not related to annual sales turnover, number of years in operation. But there was a statistically significant relationship between surveillance visit cost and the level of annual production.

The second objective of this study is to ascertain the economic impact of CoC certification in the sawmilling industry in Malaysia. The input-output analysis showed that certified sawntimber has led to significant impacts on total output, income and employment to the Malaysia. These economic impacts were distributed in many sectors that helped to stimulate the nation’s economic growth.

CoC certification can play an important role in the development of the Malaysian forest sector. Hence, effort should be made by relevant agencies to improve the
certification process in order to minimize the costs and to enhance the benefits to sawmillers. Promotion should be enhanced to raise the adoption of CoC certification among timber industry. Ways and means have to be provided to support the holders of CoC certification to reap the benefits from certification.
KESAN EKONOMI DARIPADA PENSIJILAN CHAIN OF CUSTODY (CoC) DALAM INDUSTRI KAYU GERGAJI DI MALAYSIA

Oleh

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Pensijilan Chain of Custody (CoC) telah mempengaruhi pasaran produk berasaskan hutan sejak pensijilan hutan diperkenalkan pada awal tahun 1990-an. Pensijilan CoC merupakan satu alternatif kepada syarikat dalam mempromosi dan memasarkan produk mereka dari hutan yang diuruskan secara lestari. Selain daripada itu, penawaran dan permintaan hasil hutan yang disijilkan juga telah berkembang selaras dengan peningkatan jumlah syarikat-syarikat yang memperolehi sijil CoC. Walau bagaimanapun, kos pensijilan CoC dilihat penting kepada syarikat untuk memperolehi sijil CoC.

Objektif utama kajian ini adalah untuk menentukan kos memperolehi pensijilan CoC daripada MTCC dan untuk menganggarkan kesan ekonomi dari pensijilan CoC dalam industri kayu gergaji di Malaysia. Kajian ini telah dijalankan ke atas syarikat-syarikat kayu gergaji dengan sijil CoC daripada MTCC. Keputusan...

Objektif kedua kajian ini adalah untuk menganggarkan kesan ekonomi dari pensijilan CoC dalam industri kayu penggergajian di Malaysia. Analisis input-output menunjukkan bahawa eksport kayu gergaji yang disijilkan telah memberi impak yang signifikan dari segi jumlah output, pendapatan dan pekerjaan kepada ekonomi Malaysia. Kesan ekonomi ini diagihkan kepada pelbagai sektor
dalam ekonomi Malaysia yang membantu untuk merangsang pertumbuhan ekonomi negara.

Pensijilan CoC boleh memainkan peranan penting dalam pembangunan sektor perhutanan di Malaysia. Oleh kerana itu, satu usaha harus dilakukan oleh institusi yang berkaitan untuk memperbaiki proses perlaksanaan persijilan ke arah yang lebih baik dalam rangka untuk meminimumkan kos dan untuk meningkatkan manfaat kepada “sawmillers”. Satu promosi yang besar-besaran diperlukan untuk meningkatkan pelaksanaan pensijilan CoC di kalangan industri kayu. Cara dan saranan harus diberikan untuk menyokong pemegang pensijilan CoC mendapat kebaikan dan manfaat daripada pensijilan.
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Thank you all.
I certify that a Thesis Examination Committee has met on 19 August 2010 to conduct the final examination of Nor Suryani Ab Ghani on her Master Science thesis entitled “Economic Impact of the Implementation of Chain of Custody Certification in Sawmilling in Malaysia” in accordance with Universities and University Colleges Act 1971 and the Constitution of the Universiti Putra Malaysia [P.U (A) 106] 15 March 1998. The Committee recommends that the student be awarded the Master of Science.

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DECLARATION

I declare that the thesis is my original work except for quotations and citations which have been duly acknowledged. I also declare that it has not been previously, and is not concurrently, submitted for any other degree at Universiti Putra Malaysia or other institutions.

NOR SURYANI BINTI AB GHANI

Date: 19 August 2010
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