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We wish to submit an original research article entitled "Performance Measurement of Palm Sugar Business using the Integration of Supply Chain Operation Reference (SCOR) and Objective Matrix (OMAX)" by authors: Adelia Caroline, Makkarennu, and Syahidah.

We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere.

Thank you for your consideration of this manuscript.

With Best Regards,

Makkarennu

Faculty of Forestry Hasanuddin University

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Email: [nmakkarennu@gmail.com](mailto:nmakkarennu@gmail.com)  
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International Journal of Science and Management Studies (IJSMS) E-ISSN: 2581-5946

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## Performance Measurement of Palm Sugar Business using the Integration of Supply Chain Operation Reference (SCOR) and Objective Matrix (OMAX)

Adelia Caroline<sup>1</sup>, Makkarennu<sup>1</sup>, Syahidah<sup>1</sup>

<sup>1</sup>Faculty of Forestry, Hasanuddin University, Jl. Perintis Kemerdekaan Km. 10 Tamalanrea, Makassar, Sulawesi Selatan, Indonesia  
<sup>1</sup>nmakkarennu@gmail.com

**Abstract.** *Arenga pinnata* is one of non-timber forest products (NTFPs) commodities that have high economic value. This tree is one of the multipurpose commodities because almost all parts of the tree can be utilized. The people around the forest have a lot of palm sugar as one of their livelihood sources. However, supply chain management of palm sugar businesses has not been integrated from the supply of raw materials, the production process, distribution and marketing of the product. Measurement of Palm Sugar Supply Chain Performance is conducted to measure the performance of supply chain of palm sugar and formulate the recommendations on indicators that are still below target. The research was located in Bonto Sinala village, Sinjai Regency, South Sulawesi, Indonesia. Data collection methods through interviews using a questionnaire in the palm sugar farmer group. Data analysis was carried out by implementing the Supply Chain Operation Reference model using the Analytical Hierarchy Process (AHP) and Objective Matrix (OMAX) model. The result study of measurement the supply chain performance using Supply Chain Operation Reference (SCOR) method found in 24 KPI with 4 KPI for plan variables, 4 KPI for source variables, 10 KPI for make variables, 3 KPI for deliver variables and 3 KPI for return variables. The overall supply chain performance value is 6.62 with 17 KPI that included in the green category, 3 KPI that included in the yellow category, and 4 KPI that included in the red category. KPI that included in the yellow and red categories must be corrected immediately.

**Keywords:** Supply chain, palm sugar, SCOR, OMAX

### I. INTRODUCTION

Non-Timber Forest Products (NTPs) are all goods or materials taken from the forest other than wood which are used for household needs or marketed [1]. NTFPs management can fulfill various livelihood functions and provide consumptive goods directly [2]. NTFPs are used for economic activities and community welfare in an effort to change the course of forest management [3]. In addition, it is also increase food security and increase the income on people's livelihoods [4]. Palm sugar is one of the NTFPs commodities that has high economic value and one of livelihood sources on rural communities orures [5]. The use of sugar palm trees can be done in almost all parts of the tree like for medicines and handicrafts. Moreover, sugar palm has the greatest economic value [6]. Palm sugar has many advantages compared to sugar cane, because it has a more diverse nutritional content, has antioxidant properties, low glycemic index, and good

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