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Contents

Empirical Study: Path Analysis of Tobin's Q Firm Value on Indonesian's State Owned Banks 1

Dr. Jim Hoy Yam & Prof. Tri Widyastuti

Analysis of Effect of the Presence of Soekarno-Hatta Airport Province of Environmental and Economic Banten 20

Hadi Suharno, Srie Huning Mulatsih & Anna Sofia A.

Fertilizer Microdosing Technology in Sorghum, Millet and Maize Production at Small-Scale Level in Africa: A Review 39

Dr. Walelign Demisie

Participative Approach to Human Behavior System for Paternalism Personnel Management 50

Dr. Nasser Fegh-hi Farahmand

Humanistic Concerns and Social Milieu as Projected by Khushwant Singh's Train to Pakistan: A Brief Analysis 65

Dr. S. Chelliah

Optimization of Woven Fabric Production in Textile Industry of PT. Argo Pantes Tangerang 70

Dr. Ir. Raden Achmad Hariento

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OPTIMIZATION OF WOVEN FABRIC PRODUCTION IN TEXTILE INDUSTRY OF PT. ARGO PANTES TANGERANG

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ABSTRACT

Corporate performance is measurable by its activities of which is supported by the industrial performance through the Optimization in targeted profit. PT. Argo Pantes is a manufacturing company which processes yarn and woven fabric. In the daily process the company has many problems or constrains in production planning. Uncertaintly demand of goods fluctuation has effect on shortage or Surplus production. Others problems are raw materials, machine work hour, labour work hour, spindle hour per unit, Loom hour per unit, and the demand of the products. The objective of this research is to maximize a business profit by using the application of linear programming. Simplex method of Linear programming purposes to maximize profit in linear function. Profit (Z) = 20 X_1 + 15 X_2 and linear function of the two constrains, Spindle hour per unit: 100 X_1 + 50. $X_2 \leq 1000$ and Loom hour per unit: 20 X_1 5 $X_2 \leq 300$. The Total profit earned by PT. Argo Pantes at Tangerang to produce a T/C woven fabric is $133.400, and for cotton 100% woven fabric is $100.050 with the assumtion of profit is in accordance with fixed objective and constrain function.

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INTRODUCTION

Textile and Textile Products (TPT) in the textile industry in Banten province is one of the country's sources of foreign exchange, also an industry that can accommodate a large number of workers. In 2,000 the number of laborers working in that sector amounted to almost 1.2 million people spread over 2,651 textile industry companies in Indonesia. West Java Province is the largest place of textile industry, which is 1.496 pieces (56.43%) followed by DKI Jakarta 456 units (17.30%) and Central Java 381 (13.37%). The rest is spread in

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