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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 Pantas is a manufacturing company which processes yarn and woven fabric. In the daily process the company has many problems or constrains in production planning. Uncertainty 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 Pantas at Tangerang to produce a T/C woven fabric is \$133,400, and for cotton 100% woven fabric is \$100,050 with the assumption of profit is in accordance with fixed objective and constrain function.

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 Sumatera, Bali, Yogyakarta.
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