Abstract

SUGGESTION TO DEFINE PRODUCTION VOLUME USING GOALPROGRAMMING METHODE AT PT. BETON ELEMENINDO PUTR"

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Goal Programming is a method that can be applied effectively in the planning of production, because the goal programming method is the potential to resolve the conflicting aspects between the elements in the planning of production, namely consumer, product and manufacturing process.

PT. Concrete Elemenindo Putra is a subsidiary of PT. Elemenindo Beton Perkasa, one of the prestressed concrete / precast the largest in Indonesia. The company is engaged in manufacturing that produces concrete styrofoam (B-Panel) and Styrofoam (B-Foam). Styrofoam (B-Foam) to use to produce and develop the building materials and construction of new and innovative systems. While b-panels using composite panels and sound-proof temperature.

Object of research conducted by the author on the production floor B-foam. The resulting product B-Foam, there are four types of blocks, sheets, pipes and granules. This study aims to find the volume of production in product B-foam beams and pipes that is because both products controlled 80% by volume of production companies. To determine the volume of production companies using traditional methods without considering the maximum and minimum sales revenue of production costs. Improvements to resolve the issue using the goal programming method. To determine the optimal sales volume for each item based on the volume of production constraints such as processing time, materials, and a maximum engine capacity in volume produksiperusahaan order to maximize sales revenues and minimizing production costs.

The results of data processing has been done obtained optimal amount of production volume is produced by B-Foam Blocks 580 blocks and 33 B-foam pipe tubing. Maximum total sales revenue contribution to B-foam beams Rp 1,392,000,000 /month and B-foam pipe Rp 1,650,000 /month. And a minimum total production cost contribution for the B-foam beams Rp 422,855,104 /month and B-foam pipe Rp 13,147,976 /month.

Key words: Production Volume and Method of Goal Programming.