

## Penerapan model perencanaan produksi yang optimal di PT. X

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Abstrak

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Pelaksanaan produksi di PT 'X' sering mengalami kesulitan untuk memenuhi permintaan dari konsumennya dikarenakan kondisi permintaan yang selalu berfluktuatif. Dengan demikian perusahaan perlu membuat suatu strategi proses produksi dalam mengantisipasi permintaan tersebut dengan mempertimbangkan biaya produksi yang paling minimal.

Dalam menentukan strategi proses produksi diterapkan metode Chase Strategy, Assigned Workforce Levels dan Level Strategy dengan kriteria minimasi ongkos totalnya. Variabel-variabel ongkosnya meliputi ongkos tenaga kerja langsung, ongkos rekrut, ongkos PH, ongkos jam kerja normal, ongkos lembur, ongkos simpan, ongkos backorder dan ongkos lost sales.

Dengan bantuan program Quantitative systems (QS) version 3.0 dipilih metode terbaik dari ketiga metode yang diusulkan. Secara keseluruhan didapat strategi yang terbaik yaitu dengan memakai metode Assigned Workforce Levels yang memberikan ongkos total kumulatif tenaga kerja per tahun sebesar Rp. 9.945.847,- sedangkan ongkos total produksi per tahun untuk Audio part sebesar Rp. 83.723.960,- TV part sebesar Rp. 133.800.216,- Rak Nasional sebesar Rp. 720.194.496,- Rak Sanyo sebesar Rp. 764.004.288,- Rak Mitsubitshi seb.car Rp. 836.290.560,- MDF 2500 sebesar Rp.887.041.472,- dan MDF 3000 sebesar Rp. 1.190.621.440,-

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### **ABSTRACT**

The carrying out of production at PT. 'X' frequently find it difficult to meet the demand of its consumers, because of the demand's condition which is very fluctuate. The company needs a kind of process production strategy to anticipate the demand by considering the minimum production cost.

In determining the process production strategy, method of Chase strategy, Assigned Workforce levels and Level strategy are implemented with the criteria of minimized total cost. The cost variables include regular workforce cost, hiring cost, firing cost, regular man hours cost, overtime cost, inventory cost, backorder cost and lostsales cost.

With the help of Quantitative Systems (QS) version 3.0, the best method is chosen of the three ones proposed. As it turn out, the Assigned Workforce Levels method proved to be the most applicable, by giving the total cumulative workforce cost per year is 9,945,847 rupiahs, while the total production cost per year for Audio part is 83,723,960 rupiahs, TV part is 133,800,216 rupiahs, Rack National is 720,194,496 rupiahs, Rack Sanyo is 764,004,288 rupiahs Rak Mitsubitshi is 836,290,560 rupiahs, MDF 2500 is 887,041,472 rupiahs and MDF 3000 is 1,190,521,440 rupiahs.