

Perancangan Manajemen Persediaan Suku Cadang Dengan Metode Klasifikasi Multi-Attribute Pada Industri Minyak dan Gas Bumi di Indonesia = Design of Spare Parts Inventory System Using Multi-Attribute Classification Method On Indonesian Oil and Gas Industry

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Abstrak

Tingginya biaya inventory, munculnya shortage cost serta sulitnya menjaga ketersediaan suku cadang dalam jumlah besar dan bervariasi memerlukan strategi pengontrolan yang tepat, metode klasifikasi pada umumnya fokus kepada annual dollar usage belum mengakomodasi kriteria lain yang bersifat kualitatif dan kuantitatif.

Thesis ini bertujuan mendapatkan model manajemen persediaan dengan menggunakan metode Multi Criteria Decision Making yaitu klasifikasi berdasarkan Multi-attribute Spare Tree Analysis(MASTA) dan Inventory Management Policy (IMP) matrix yang mengakomodasi berbagai kriteria kualitatif serta kuantitatif di Industri minyak dan gas bumi Indonesia.

Hasil penelitian menunjukkan MASTA & IMP sebagai metode manajemen persediaan bisa diterapkan di Industri minyak dan gas bumi Indonesia dan bisa menjaga persediaan dan menurunkan biaya inventory.

.....The high cost of inventory, the emergence of shortage cost and difficulty of maintaining the availability of spare parts in large and varied quantities needs a proper control strategy, classification methods generally focus on annual dollar usage not accommodate other qualitative and quantitative criteria.

This thesis aims to get the inventory management model using Multi Criteria Decision Making method based on Multi-attribute Spare Tree Analysis (MASTA) and Inventory Management Policy (IMP) matrix that accommodates a variety of qualitative and quantitative criteria in the oil and gas industry of Indonesia. The results showed MASTA & IMP as supply management methods can be applied in oil and gas industry Indonesia and could keep the stock and reduce inventory costs.