

# Aircraft Material Purchasing Planning Optimization Using 3 Different Model (Economic Order Quantity, Least Unit Cost And Wagner Within Algorithm) = Optimasi Perencanaan Pembelian Material Pesawat Menggunakan Pendekatan 3 Model Berbeda (Economic Order Quantity, Least Unit Cost Dan Wagner Within Algorithm)

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## Abstrak

Setiap perusahaan yang menjalankan bisnisnya pasti dituntut untuk dapat menjalankan proses bisnisnya secara efektif dan efisien. Begitu juga dengan PT. GMF Aeroasia tbk adalah perusahaan MRO Republik Indonesia. Dalam bisnisnya proses. Perusahaan menghadapi banyak pekerjaan rumah yang harus diselesaikan dengan baik. Apalagi dalam situasi pandemi seperti sekarang ini.

Perusahaan dituntut untuk dapat menghemat biaya pembelian baik dari proses internal maupun eksternal. Analisis ini ditargetkan pada anggaran pembelian dan pengadaan material untuk perawatan pesawat. Karena pembelian dan pengadaan suku cadang untuk perawatan pesawat dinilai sangat krusial. Pengadaan dan pembelian material pesawat masih dianggap tidak efisien, apalagi pembelian material pesawat kebanyakan didatangkan dari luar negeri dan seringkali banyak biaya dan beban tambahan yang harus ditanggung perusahaan. Dengan menganalisis beberapa faktor yang menyebabkan banyak biaya termasuk penentuan lot, biaya transportasi, biaya setup untuk pembelian bahan, rentang waktu pembelian, biaya minimum, dan juga jumlah minimum pembelian material yang dapat dilakukan oleh perusahaan dengan menggunakan tiga metode seperti judul di atas, yaitu: Economic Order Quantity, Least Unit Cost, dan Algoritma Wagner Within.

.....Every company running its business is definitely required to be able to carry out its business processes effectively and efficiently. Likewise with PT. GMF Aeroasia tbk is an MRO company of the Republic of Indonesia. In its business process. The company faces a lot of homework to be done well. Especially in a pandemic situation like today. Companies are required to be able to save on purchasing costs both from internal processes and external. This analysis is targeted at the purchase budget and material procurement for aircraft maintenance. Because the purchase and procurement of parts for aircraft maintenance is considered very crucial. Procurement and purchase of aircraft material are still considered inefficient, especially when purchasing aircraft material is mostly imported from abroad and often there are many additional costs and burdens that companies have to bear. By analyzing several factors that cause a lot of costs including lot determination, transportation costs, setup costs for purchasing materials, purchasing time spans, minimum costs, and also the minimum amount of material purchases that can be made by the company. By using the three methods as the title above, namely: Economic Order Quantity, Least Unit Cost, and also Wagner Within Algorithm.