

ABSTRAK

UMKM Konveksi Armoury Sport merupakan UMKM yang bergerak dibidang konveksi dengan produk unggulan yaitu kaos jersey yang dikirim dari dalam kota hingga keseluruhan Indonesia. Permasalahan yang dihadapi oleh Konveksi Armoury Sport yaitu terdapat masalah pada *supplier* tetap seperti tidak terpenuhinya persediaan bahan baku yang mengakibatkan terganggunya alur proses produksi sehingga perlu penambahan *supplier* tetap guna memenuhi persediaan. Penelitian ini bertujuan untuk mengambil keputusan dalam menentukan urutan *supplier* terbaik menggunakan metode *Analytical Network Process* (ANP) untuk menentukan urutan kriteria dan sub kriteria, dan metode *Technique For Others Preference By Similarity To Ideal Solution* (TOPSIS) untuk menentukan urutan *supplier* terbaik. Hasil dari metode *Analytical Network Process* (ANP) menunjukkan urutan kriteria yaitu pertama kualitas, kedua harga, ketiga pelayanan, keempat pengiriman, dan kelima fleksibilitas. Sedangkan urutan sub kriteria yaitu pertama kesesuaian warna hingga terakhir negotiatif. Hasil dari metode *Technique For Others Preference By Similarity To Ideal Solution* (TOPSIS) menunjukkan urutan *supplier* terbaik yaitu urutan pertama adalah *supplier* A, kedua *supplier* B, ketiga *supplier* D, keempat *supplier* C, dan kelima *supplier* E.

Kata kunci: *Supplier, Analytical Network Process (ANP), Technique For Others Preference By Similarity To Ideal Solution (TOPSIS).*

ABSTRACT

UMKM Konveksi Armoury Sport is an UMKM engaged in the convection sector with superior products, namely jersey shirts that are sent from within the city to all over Indonesia. The problem faced by Konveksi Armoury Sport is that there are problems with permanent suppliers such as unfulfilled raw material supplies which disrupt the production process flow so that additional permanent suppliers are needed to meet supplies. This study aims to make decisions in determining the order of the best suppliers using the Analytical Network Process (ANP) method to determine the order of criteria and sub-criteria, and the Technique For Others Preference By Similarity To Ideal Solution (TOPSIS) method to determine the order of the best suppliers. The results of the Analytical Network Process (ANP) method show the order of criteria, namely first quality, second price, third service, fourth delivery, and fifth flexibility. While the order of sub-criteria is first color suitability to last negotiability. The results of the Technique For Others Preference By Similarity To Ideal Solution (TOPSIS) method show the order of the best suppliers, namely the first order is supplier A, second supplier B, third supplier D, fourth supplier C, and fifth supplier E.

Kata kunci: *Supplier, Analytical Network Process (ANP), Technique For Others Preference By Similarity To Ideal Solution (TOPSIS).*