Evaluation and prioritization of suppliers using Analytical Hierarchy Process (AHP)
In Arm Plastic Plant

ABSTRACT

In today's competitive era, companies are faced with a trend of market globalization. Therefore, encompassing competitive environment forces the manufacturers to look for a larger share of the market. On the other hand, customers' expectations have changed so that nowadays it is more difficult to meet their expectations. Suppliers are one of the directly involved factors to the quality of products and so on customers' satisfaction. Proper selection of the suppliers would be an obsession for every prospective manager consequently. This research aims to evaluate and prioritize suppliers of “Arm Plastic Manufacturing Plant” using Analytical Hierarchy Process. At first the effective criteria of qualified suppliers was determined by the assistance of the plant manager, then the hierarchical decision tree was designed and the related criteria got weighted. Finally “Zar Shimi Plant” was selected as the best among the short list of supplier, using Expert Choice to prioritize the options.

KEYWORDS
suppliers, select the supplier, Analytical Hierarchy Process, weigh, criteria