

ABSTRACT

Production activity which is always changes makes a company sometimes unable to handle orders on its own. Therefore, a strong cooperation among manufacture companies is needed. Especially to face the tremendous pressure of the competition. In the cooperation, the company who accept the order will select a supplier or partner considering many kinds of criterias.

In this final project a Decision Support System (DSS) which is useful as a tools for the company to select the appropriate supplier based on existing criterias has been built. This DSS using Elimination Et Choix Tradisant La Realite (ELECTRE) method, an outranking method in multicriteria analysis.

Output of this DSS are informations for the decision maker can be used as a reference for decision making in supplier selection.

Keywords : DSS, ELECTRE, supplier selection.