

## ABSTRACT

In SME automotive components have limited human resources. The many amount of production that makes the company does not have a mutual system integrated with each other. Lost compete with SME automotive components from abroad who have implemented ERP system. The author provides cloud-based ERP software using Multifactor Evaluation Process method in accordance with the needs of SME automotive components.

This research for decision making using Multifactor Evaluation Process for selecting cloud-based ERP software the right based on 11 criteria i.e. Functionality of the ERP system, Technical criteria, Cost, Service and budget & support, Vision, System Reability, Compability, Market position, Modularity and integration, Implementation methodology, and The ERP package fitness with the organization size and context) and the evaluation factor is cloud-based ERP software vendor.

The results of this research are based on the results of the testing and processing of data by the method of Multifactor Evaluation Process is to recommend a cloud-based ERP software with the vendor of Oddo. Calculation of the results obtained with the highest of the 3 vendors are compared with point 0,4034.

Keywords: Cloud-based ERP software, criterion weighting, MFEP