

ABSTRACT

Nowadays, especially in production sector, the systems which convert information to profit are strongly demanded. Enterprise Resource Planning (ERP) is at the top of these systems.

ERP enables efficient data flow among the factories located in different regions inside departments, their supplier companies and distribution centers by means of the computer based connection in the company. ERP is a computer software, which carries out the activities (material supply, stock control, production, marketing, sending, finance and accounting) synchronically.

The foundation of ERP has been started, in the 1960 year. The inventory control was vital in these years. Then, the companies have started to use computer based systems for that purpose. By the help of development of information technologies, production planning, stock control, production follow and Material Requirement Planning (MRP), Production Resource Planning (MRP II) applications have also moved to the computer based technology. In the 1990 year, companies have started to use computers aimed at decision making. As a result of this, Enterprise Resource Planning (ERP) has started to take place in our lives.

The arise of ERP system is a result of combination of MRP and MRP II systems, and the improvements of these systems according to the technological developments.

The one of the most important properties of ERP, which differs from all other systems, is it enables easy data access. In order to make a great rivalry, it is obvious that the resources must be managed efficiently. To do that, it requires, completely adapted, from planning to selling and from sending to accounting controllable flows, and qualified information infrastructure. At this point, ERP is a helper system, in order to follow the resources efficiently and to give decisions related to these resources, from customer relations to production planning.

Setting up of ERP and complete functionality after starting the installation requires long time and money. When an ERP system is purchased and applied to company, it is hard to return. Therefore, the company has to identify its needs and find the one which compensates all its requirements, in the purchasing period.

In this report, Sentim Informatics, which has the greatest market share in the Turkish Informatics market and the first user of ERP system in Turkey, ERP system selection period has been investigated. The ERP packet software which will be most beneficial for the company is tried to be identified by means of the sent Offer Calling List (RFP) to the software companies and the applied questionnaire company employees. As a result of the conducted researches and the studies, the international IFS Company's ERP packet software is seen appropriate.

Key Words: ERP, MRP, MRP II