

ABSTRACT

To manage production systems effectively, one must pay special attention to materials management, including materials procurement, coordination of materials availability, inventory control, and control of material utilization. A diverse production line and the complexities of individual products can cause confusion, inefficiencies, and inferior customer service for any organization. Management will be better able to control in such an environment if there is the timely and accurate information. Material Requirements Planning (MRP) system can provide this vital information.

V.C.K Industrial Line Co., Ltd., the lighting fixture manufacturer, is faced with problem of material planning as the current system is operated manually and just an informal replenishment system. The computerized MRP System is proposed since the existing system does not provide timely and accurate information for the planner. The planner cannot reschedule the plan when the plan was changed. Besides, the current system requires a lot of time for preparing the monthly report.

According to the limitations, the proposed system is designed to solve or minimize the current problems. The data is recorded and updated with the program called Delphi. The database file is created so it can be shared among the users. So, data redundancy and time in searching required data are reduced. The interfaces, forms and reports are generated to be easy to use and understand. The result from system evaluation concludes that the system responds to the user requirements and minimize the current problems of the existing system.