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**DEVELOPMENT OF A COMPUTERISED
PRODUCTION PLANNING AND CONTROL
SYSTEM WITH THE AID OF WORK STUDY AND
STATISTICAL METHODS**

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ABSTRACT

Kent Display (Pvt) Ltd is an organization, which was involved in manufacturing value added wooden packages mainly in the form of value added wooden boxes. Since the factory had commenced its operations recently, it had no proper database and developed methods in the areas of production planning and control, which caused problems in the areas of production related matters, mainly due to, unavailability of management information system and methodologies related to it. Due to the peculiarity of this industry, standard data for this type of operations was hardly obtainable for the purpose of adoption in the organization and also for benchmarking purposes. This research project aimed at introducing standardization to the possible areas of production and to develop standard times for standardized operations, with the aid of work-study and statistical methods. And with the developed standard data, it moves further to develop a computerized production planning and control system with the aid of MS-EXCEL and MS-PROJECT computer packages. The developed system was used for production planning and control, cost estimating and material requirement estimations. Developed package had the flexibility to be updated according to the improved methods during continuous improvement processes, and it provides a faster and accurate management information system in the area of production planning and control. The system developed is being tested currently at the manufacturing facility and it was found by the management that the cost estimation part proven to be satisfactory, while it is still early to make conclusions regarding the other areas of functionality of the package.