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Faculty of Industrial Technology

Department of Industrial Engineering

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Development of a Manufacturing Resource Planning

(MRP II) Database system for Frese Zimbabwe

(Pvt) Ltd.

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by

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Abstract

The project was carried out with the main aims being to come up with an efficient and effective database system for the company's (Frese Zimbabwe (Pvt). Ltd) products so as to reduce the total time in the planning process and also increase the accuracy of the plans. This is projected to improve the company's performance and competitiveness in the market.

The development of the project was through the use Microsoft Access and Microsoft Excel packages. Microsoft Access was used to prepare the bill of materials (B.O.M.) for the company's products and this was linked to the Microsoft Excel worksheet for integration. It is in Microsoft Excel that incorporating formulae in the cells of the Excel worksheet made possible the calculations of the requirements for the different products.

At the end of the project the author came to the conclusion that it would be worthwhile for companies to consider trying to implement MRP II systems in their organisations. The implementation of the system would require commitment from all the company's personnel from the top management to the shop-floor workers.

The results of the project would doubtlessly be better the more time is afforded to its carrying out.