CHAPTER 7

CONCLUSION AND FUTURE ENHANCEMENTS

This chapter concludes the thesis by summing up the outcomes of the research carried-out on “IT Strategic framework for sustainable ERP implementation in the apparel Industry”. The outcomes of the research are summarized and possible future enhancements are suggested.

7.1 CONCLUSION

This research work mainly focuses on the present ERP implementation scenario in the apparel industry including the effectiveness of implementation and issues encountered by the industry. This research work provides set of guidelines for the effective ERP implementation. This research work also evolves a framework for sustainable model for ERP applications inorder to overcome the issues relating to software up-gradation and vendor dependency. Research in the above mentioned field has led to gather several new ideas and innovations. The following are the outcomes of the research:-

- Survey on Existing ERP system projects that the ERP module implementation is not completely successful. There exists grey areas and they need to be properly addressed.

- An appropriate Road Map for implementing the ERP system in the apparel industry is evolved.

- Add-on feature over the existing system for the apparel industry to contribute sustainable solution and to overcome issues related to software up-gradation is also proposed.
• A Classical Cost Analysis model proposed for calculating the actual profit made in a style by using a mathematical model. Further, a comparative analysis was made between the proposed model and the traditional model which reveals a significant cost difference of ₹ 82.50 per piece. Profit of ₹ 82500 for every 1000 piece manufactured in a style which is 14.78% in a particular style. The Factory with a capacity of 50000 pieces can make a direct profit of ₹ 4125000 every month by using a classical model.

• A warehouse management model is also suggested to manage warehouse space and stock more efficiently as a cost effective solution for both retail and export industries. As best fit algorithm is used 100% space of warehouse can be used for storing the finished goods.

• A Performance analysis for the classical model is created by using simple regression and multiple linear regression to distinguish the cost of the traditional model against the classical model. A comparison made based on the Simple linear regression analysis carried-out between the traditional model and classical model proposed is shown in Table 6.17 reveal that P value to x variable is less than 5% (0.000282 and 0.000281 respectively) which is very significant.

Based on the results arrived, it clearly projects that the classical model proposed is more effective for calculating the profit made in each style manufactured by the industry.
7.2 FUTURE ENHANCEMENTS

This research has brought out some excellent and effective ways of calculating the profit of a style manufactured in-addition to manage the warehouse space. Further research in this area could be planned as follows:-

- An Extensive cost analysis process could be carried-out in the retail market for costing from the order confirmation perspective.
- Since the technology driven industry grows in a rapid phase, requirement for the industry too equally increases. As of now, two functional areas have been identified and suggested apt solutions for the same. Other requirements which emerge can be identified along with new developments in the industry depends upon the new add - on solution for favour of the making the ERP implementation more sustainable.
- Integration of Big Data analytics with ERP enables the industry to improve the internal processes, enhance productivity and profitability. Big Data analytic tools can enable the industry for analyzing warehouse space utilizations patterns to predict future requirements for storing the finish goods.
- Similar exercises can be attempted in other manufacturing process based industries also.