

V. CONCLUSIONS AND RECOMMENDATIONS

The figure shown above is the summary of all the computed rankings of the applicable constraints. The final decision is based on the computed ranking. Graphical comparison of the over-all rank of both designs is shown in the figure above. Based on the analysis of the trade-offs and the over-all ranking of the two designs based on the applicable constraints which are Economic, Occupational Health and Safety, Ergonomics, Environmental and Productivity, this paper therefore choose the second alternative design or the Design 2. The chosen design yielded a rank of 5 in the Economic constraint, -0.9 in the Occupational Health and Safety constraint, 0.9 in the Ergonomic constraint, 3 in the Environmental constraint and 5 in the Productivity constraint.

Based on observations and results of the study, this project recommends the following:

- Application of the second warehouse layout alternative in the Warehouse
- Installation LED for warehouse lighting
- Utilization of electric forklift in the warehouse operations
- Application of the developed operations standards
- Perform training and seminar for the warehouse safety aligned with the OSHA Standards
- Monitoring of the operations for continuous improvement

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