

REFERENCES

- [1] A. Drira, H. Pierreval and S. Hajri-Gabouj, "Facility layout problems: A survey," *Annual Reviews in Control*, no. 31, pp. 255-267, 2007.
- [2] S. P. Singh and R. R. K. Sharma, "A review of different approaches to the facility layout problem," *International Journal of Advance Manufacturing Technology*, vol. 30, pp. 415-433, 2006.
- [3] A. Shahin and M. Poormostafa, "Facility layout Simulation and Optimization : an Integration of advance quality and Decision making Tools and Techniques," *Modern Applied Science*, vol. 5, no. 4, pp. 95-111, 2011.
- [4] D. P. V. Donk and G. Gaalman, "Food safety and hygiene systematic layout planning of food processes," *Chemical Engineering Research and Design*, vol. A11, no. 82, p. 1485-1493, November 2004.
- [5] T. Wijtzes, K. V. Riet, J. H. i. Veld and M. H. Zwietering, "A decision support system for the prediction of microbial food safety and food quality," *International Journal of Food Microbiology*, no. 42, pp. 79-90, 1998.
- [6] S. P. Daf and D. R. Zanwar, "Analysis and improvement in plant layout for effective production in manufacturing industries," *International J. Technology*, vol. 3, no. 1, pp. 19-28, 2013.
- [7] C. S. Tak and L. Yadav, "Improvement in layout design using SLP of a small size manufacturing unit: A case study," *IOSR Journal of Engineering*, vol. 2, no. 10, pp. 01-07, 2012.
- [8] A. K. Jain, V. Khare and P. Mishra, "Facility planning and associated problems: a survey," *Innovative systems design and engineering*, vol. 4, no. 6, pp. ISSN 2222-1727, 2013.
- [9] R. B. Chase, F. R. Jacobs and N. J. Aquilano, *Operations Management for Competitive advantage*, New York: Tata McGraw-Hill Publishing company limited, 2006.
- [10] W. D. Fogarty, R. T. Hoffman and W. P. Stonebraker, *Production and operations management.*, Cincinnati, OH: South-Western Publishing Co, 1989.
- [11] J. Prince and J. M. Kay, "Combining lean and agile characteristics: Creation of virtual groups by enhanced production flow analysis," *Int. J. Production Economics*, no. 85, pp. 305-318, 2003.
- [12] S. C. Silva and A. Alves, "Design of product oriented manufacturing systems," *Knowledge and technology integration in production and services*, vol. 101, pp. 359-366, 2002.
- [13] M. Bazargan-Lari, "Case Study Layout designs in cellular manufacturing," *European Journal of Operational Research*, vol. 112, pp. 258-272, 1999.
- [14] G. Q. Huang, Y. F. Zhang and P. Y. Jiang, "RFID-based wireless manufacturing for walking-worker assembly islands with fixed-position layouts," *Robotics and Computer-Integrated Manufacturing*, no. 23, pp. 469-477, 2007.
- [15] S. Heragu, "Facilities Design," in *PWS Publishing*, Boston, 1997.

- [16] T. Yang and C. Kuo, "A hierarchical AHP/DEA methodology for the facilities layout design problem," *European Journal of Operational Research*, vol. 147, no. 1, pp. 128-136, 2003.
- [17] T. Yang, C. Su and Y. Hsu, "Systematic layout planning: A study on semiconductor wafer fabrication facilities.," *International Journal of Operations and Production Management*, vol. 20, no. 11, p. 1360–1372, 2000.
- [18] K. H. Han, S. M. Bae and D. M. Jeong, "A matrix-based approach to the facility re-layout problem," *International journal of mathematical models and methods in applied sciences*, vol. 7, no. 5, pp. 584- 591., 2013.
- [19] T. Yang and C.-C. Hung, "Multiple-attribute decision making methods for plant layout design problem," *Robotics and Computer-Integrated Manufacturing*, vol. 23, pp. 126-137, 2005.
- [20] M. M. Hassan, "Layout design in group technology manufacturing," *International journal of production economics*, vol. 38, pp. 173-188, 1995.
- [21] R. S. Liggett, "Automated facilities layout: past, present and future," *Automation in Construction*, vol. 9, no. 1, pp. 197-215, 2000.
- [22] R. D. Meller and K.-Y. Gau, "The Facility Layout Problem: Recent and Emerging Trends and Perspectives," *Journal of Manufacturing Systems*, vol. Vol. 15, no. 5, pp. 351 -366, 1996.
- [23] C. K. Wong, I. W. H. Fung and C. M. Tam, "comparison of using Mixed-integer programming and generic algorithms for construction site facility layout planning," *Journal of construction engineering and management*, vol. 136, no. 10, pp. 1116-1128, 2010.
- [24] T. Hegazy and E. Elshorbagy, "Evolution based model for site layout planning," *Journal of computing in civil engineering*, vol. 13, no. 3, pp. 198-206, 1999.
- [25] C. M. Tam, T. K. L. Tong, A. W. T. Leung and G. W. C. Chiu, "Site layout planning using nonstructural fuzzy decision support system," *Journal of construction engineering and management*, vol. 128, no. 3, pp. 220-231, 2002.
- [26] E. S. Grajo, "Strategic layout planning and simulation for lean manufacturing a layOPT tutorial," in *Winter Simulation Conference*, Michigan, 1996.
- [27] K. Kant, "Scribed," 5 October 2010. [Online]. Available: <http://www.scribd.com/doc/38743424/Aldep-Automated-Layout-Design-Program>. [Accessed 28 10 2013].
- [28] R. Owens, "Practical Facility Layout Technology for Industrial Engineers and Educators in Asia," Melaka, 2010.
- [29] W. Xie and N. V. Sahinidis, "A branch and bound algorithm for continuous facility layout problem," *Computers and chemical engineering*, vol. 32, no. 4, pp. 1016-1028, 2008.
- [30] S. Jiang and A. Nee, "A novel facility layout planning and optimization methodology," *CIRP Annals - Manufacturing Technology*, vol. 62, pp. 483-486, 2013.
- [31] J. Holah, "Guidelines for the Hygienic Design, Construction and Layout of Food Processing Factories," Campden & Chorleywood Food Research Association

Group, Gloucestershire, 2003.

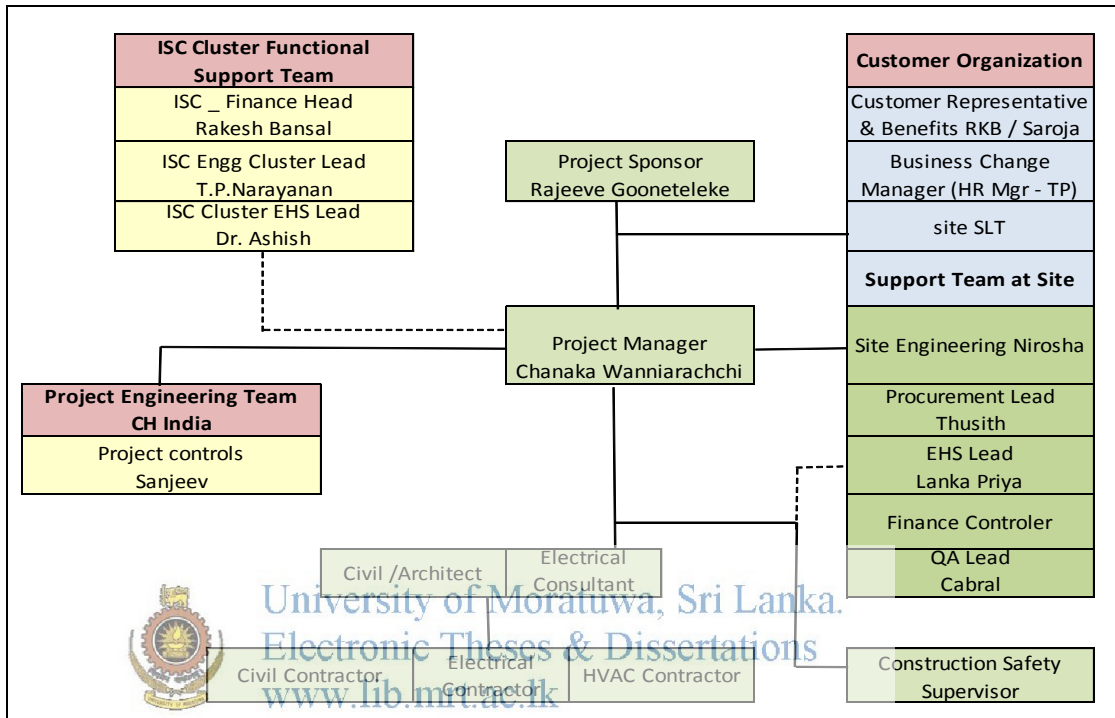
- [32] P. J. Fellows, Food processing technology Principles and practice, Cambridge CB21 6AH, UK: Woodhead Publishing Limited, ISBN 978-1-84569-216-2, 2009.
- [33] H. Hofstra, J. v. d. Vossen and J. v. d. Plas, “Microbes in food processing technology,” *FEMS Microbiology Reviews*, no. 15, pp. 175-183, 1994.
- [34] M. D. Pierson and D. J. (. Corlett, HACCP: Principles and Applications, New York: Van Nostrand Reinhold, 1992.
- [35] H. H. J. Laurian J. Unnevehr, “The economic implications of using HACCP as,” no. Food Policy 24, 1999.
- [36] L. C. Lin and G. P. Sharp, “Quantitative and qualitative indices for the plant layout evaluation problem,” *European Journal of Operational Research*, vol. 116, p. 100–117, 1999.
- [37] L. C. Lin and G. P. Sharp, “Application of the integrated framework for the plant layout evaluation problem,” *European Journal of Operational Research*, vol. 116, p. 118–138, 1999.
- [38] R. Muther, Systematic layout planning, Boston: MA: Cahners, 1973.
- [39] K. Stecke, “Design, planning, Scheduling and control problems of flexible manufacturing systems,” *Annals of Operations Research*, vol. 3, pp. 3-12, 1985.



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk

APPENDIX

Appendix A: The project orgonogram of factory upgrade project.



Appendix B: From - to chart for material movement (old layout)



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk

Appendix C: From - to chart for material movement (new layout)



University of Moratuwa, Sri Lanka.
Electronic Theses & Dissertations
www.lib.mrt.ac.lk