

# **Productivity Improvement by Lean Methodologies at Dyeing & Printing Plant**

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## **Abstract**

The purpose of this paper is to present Implementation of job standardization, process layout planning, single-piece flow & Material handling on stitching Units at Mustaqim Dyeing & Printing (Pvt) Ltd to improve productivity and reduce non-value added time. Time and Method study has been conducted to determine the time required for each operation to calculate Non-Value added time, man power utilization, process layout planning, Effective Material handling. It was revealed that Time & Method study and single-piece-flow significantly and positively influences shop-floor employees' job performance, and the time taken by each operation had been reduced. This work has only been performed within the Textile industry and only the interns has been active in the project. This Research methodology can be replicated by other textile industries to increase their productivity and reduce Non-Value added time. Findings on the ways in which Process Improvement initiatives influence in productivity is important in creating an environment to sustain the improvement efforts over a longer period. Such lessons would be valuable for academics and practitioners alike worldwide.

## **Keywords**

Lean Manufacturing, Process Layout Improvement, Effective Material Handling, Kaizen, Time Study.