

**APPLICATION OF LEAN CONCEPT USING VALUE STREAM
MAPPING AND '5S' TECHNIQUES IN PUMP
MANUFACTURING INDUSTRY**

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ABSTRACT

The thesis covers the implemented project work in WATERMAN INDUSTRIES Pvt Ltd. the well known submersible pump manufacturer located at Ahmedabad region. Manufacturing lead time is the time required to produce product from its raw materials to final product. A company has to fulfill its customer's needs to sustain in this competitive world, Lean has served the manufacturing sector with better speed and quality. This project aims at application of lean manufacturing concept using Value Stream Mapping along with 5S techniques and lead time reduction in pump manufacturing company. Application of 5S techniques has served initiative in this project work and gives massive results. Value Stream Mapping (VSM) served as an tool for identifying bottlenecks involved in the processes.