GP1024	Development of Lean implementation Roadmap for an Indian MSME		
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In recent decades, the globalisation policies of government boosted the industrial growth of the Indian subcontinent and paved way to lot of small enterprises. These enterprises are categorized as Micro, Small and Medium industries based on their size of investment in plant and machinery. These MSMEs' constitute 45% of the country's industrial output with over 70% contribution from manufacturing industries. However, the present business process of the MSMEs' are comparatively inferior compared to global manufacturing, as they are plagued with lot of wasteful activities, which reduces the profit, depriving the growth of enterprises.

In this project, a roadmap for lean implementation for an Indian MSME, Searock Precision Products Pvt. Ltd, Bangalore, is prepared in order to support the enterprise to successfully implement lean in their manufacturing process. The company is one of the vendors to Mico Bosch and lean implementation is planned in one of their manufacturing cells, A – type fuel pump body machining cell, which brings 58% of business to the enterprise from their prime customer, Mico Bosch. The current state of the enterprise is scanned through Gemba observation and understood that, the process performance is poor due to low OEE, increased process scrap and excess WIP. Also, the 5S condition of the plant is not up to the industrial standards. The current state VSM of the machining process is chalked out after a thorough and detailed Gemba observation by the team. From the current state VSM, it is understood that the present Process Cycle Efficiency is only 0.03% with a manufacturing lead time of 21 days. Kaizen bursts are identified and a future state VSM is drafted. The process cycle efficiency with kaizens is estimated as 0.08% with lead time reduced from 21 days to 9 days. Adequate training on basic lean concepts like 5S, OEE, safety and problem solving techniques are provided to the workmen and management staffs to carry forward the lean.

The project helped the team to effectively apply VSM tool to identify non value added activities in the manufacturing process. It also helped to understand the importance of training and awareness of the workmen in successfully beginning a continuous improvement journey and how culture plays an important role in the success of an organization. Ultimately, the project helped the individuals to learn the art of team work and cross learning.

Training: Problem solving technique, OEE and 5S training for middle management people and workmen