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Ambition Apparel (pvt) ltd.

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**Dated: 03-03-2016**

## Declaration

I hereby declare that all the information in this thesis is the result of my concerted efforts and my original work. This research work, to the best of my knowledge and belief, reproduces no material previously published or written, or that has been accepted for the award of any other degree or diploma, except where due acknowledgement has been made in the text.

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## **Abstract**

For trade and industry survival of a country the growth of manufacturing industries is necessary. Major perspective of manufacturing is quality. The importance of quality should never be ignored because without improvement in quality, it is impossible to survive in global competition. One of the major quality oriented problems faced by the manufacturing sector which can cause a direct effect on the profit is rejection rate. Rejection rate has a great impact on profit margin of a product and meanwhile it also decreases the quality of a product. Companies are struggling hard to reduce their rejection rate during the manufacturing process through different quality tools, checking and inspection during different operations and implementing changes and strict quality checks. Ambition Apparel is facing the major problem of high rejection rate of garments due to different defects in sewing. As high rejection rate has become the worst problem for the industries and creating customer dissatisfaction and financial loss to organization. To overcome this problem Six Sigma can be very helpful. High rejection rate of stitched garment was recorded and it is decided to implement the DMAIC methodology in sewing department. Our research focuses upon the implementation of six sigma. In garment manufacturing industry the problem was identified. To eliminate the problem it was measured to identify the extent of problem. Potential causes were identified in analyze phase. It was made sure that the improvements were being made and in control phase the work being done properly. This project will help us to control rejection rate and increase the profit margin & customer satisfaction by providing them better quality products.

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