

**To Reduce The Rejection Level Of The Product Chassis  
260L By Using Six Sigma**

A MAJOR PROJECT REPORT

SUBMITTED AS PARTIAL FULFILLMENT OF THE REQUIREMENT

FOR THE AWARD OF DEGREE OF

MASTER OF ENGINEERING

IN

PRODUCTION ENGINEERING

**SUBMITTED BY**

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**SESSION 2010-11**

## **CONDIDATE'S DECLARATION**

I, **PRASHANT VASHISHTHA**, hereby certify that the work which is being presented in the thesis entitled “**To Reduce The Rejection Level Of Product(Chassis 260L) By Using Six Sigma**”. in the partial fulfillment of requirement for the award of degree of MASTER OF ENGINEERING submitted in the Department of Mechanical Engineering at DELHI COLLEGE OF ENGINEERING under UNIVERSITY OF DELHI, DELHI, is an authentic record of my own work carried out during a period from July 2010 to July 2011, under the supervision of **Prof. V.K.Sethi** (Department of Mechanical engineering). The matter presented in this thesis has not been submitted University / Institute for the award of any degree.

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## **CERTIFICATE**

This is to certify that dissertation entitled “**TO REDUCE REJECTION LEVEL OF THE PRODUCT(CHASSIS 260 L) BY USING SIX SIGMA**” being submitted by Mr. PRASHANT VASHISHTHA in the partial fulfillment for the award of degree of “MASTER OF ENGINEERING” with specialization in “PRODUCTION ENGINEERING” submitted to Delhi College of Engineering, University of Delhi, is a bonafide project work carried out by him under our guidance and supervision.

The matter in this dissertation has not been submitted to any other university or institute for the award of any degree.

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## **ABSTRACT**

.Certain deficiencies occurs in production if quality doesn't follow the standards absolutely.Theses deviations are fully responsible for the worse quality.Six Sigma is the well established philosophy to control theses deviations.Six sigma is an enhancement to quality.Six Sigma is the philosophy that has a standard path to be followed.

In the present work advantages of Six Sigma has been rediscovered. Six Sigma has been used to improve the quality of the product Chassis 260 L.All the five phases of this philosophy have been used to the present problem. A systematic approach has been applied to solve this problem.Finally by the application of Six Sigma the rejection due to crack has been reduced to a great extent and therefore profitability for the present product has also been increased. Therefore a discussion is also made after getting the desired results which proves Six Sigma as one of the most competitive philosophy for the manufacturing industries.

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## LIST OF SYMBOLS

$\sigma$	: Sigma(Standard Deviation)
p	: Probability
*	: Multiplication
+	: Addition
-	: Subtraction
/	: Devision
%	: Percentage

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