

A Project Report on

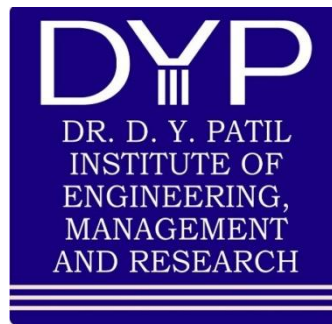
Needle Lapping Elimination in DLL Nozzle

By

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Guided By

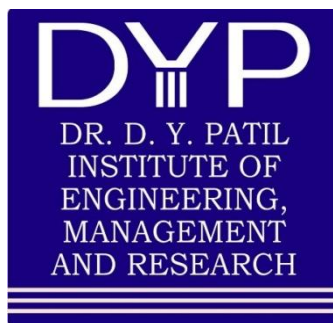
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C E R T I F I C A T E

This is to certify that **Mr. Rohan Sanjaykumar Borse** successfully completed the Project work entitled “**Needle Lapping Elimination in DLL Nozzle**” under my supervision, in partial fulfillment of Bachelor of Engineering-Mechanical Engineering, by Savitribai Phule Pune University.

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ACKNOWLEDGEMENT

It gives me an immense pleasure to submit these project report on “**NEEDLE LAPPING ELIMINATION IN DLL NOZZLE**”. I have tried my level best to represent this topic into compact and to the point framework.

I truly express my deepest thank to all the people who have given their precious time and encouragement and my project guide **Mr. Rahul Kalkar & Mr. Bhushan Pawar** for their patience he showed me during the process of preparation of the project from the initial conception to final presentation and all staff of department.

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I extend my sincere thanks of gratefulness of our **H.R. MANAGER** of BOSCH Nashik **Miss.SNEHA OAK**

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Abstract

At Present Lapping process is required for Needle to achieve perfect finishing and straightness of Needle but paste used for lapping contains chemicals which is hazardous to human health. It contains mutton swallow hence it has some adverse effects on environment also.

The prime aim of the project is to eliminate the Lapping process in Needle manufacturing by improving our conventional method with some advanced engineering.

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