

## CONSULTANCY

NAME OF PROJECT	'AUTOMATION OF INDUSTRIAL MECHANICAL POWER PRESS'
NAME OF INDUSTRY	TRIPCON ENGINEERING PVT. LTD.
NAME OF FACULTY GUIDE	PROF CHITRALEKHA NAHAR
STUDENT TEAM	1. SIDDHARTH RAMI, 2. YASH GAJAR, 3. KRUNAL PATEL 4. APURVA SHETH

## OUTCOME OF PROJECT

- Saffrony Institute of Technology, in collaboration with Tripcon Engineering India Private Ltd, Anand, embarked on a groundbreaking industrial project. Led by the expert guidance of Prof. Chitrlekha Nahar, students from diverse branches pooled their skills to transform a mechanical hydraulic press into an automatic one.
- *The project yielded extraordinary results:*  
Not only was the conversion achieved at a staggering 50% less cost, but the productivity of the press also skyrocketed.

Previously, the manual hydraulic press churned out an average of approximately 250 workpieces per hour, but post-automation, this figure surged to an impressive 869 workpieces per hour. This translates to a whopping 3.47 times increase in speed compared to a human operator. Such a remarkable outcome exemplifies the fruitful collaboration between industry and academia, setting a high standard for future endeavors in this domain.

- The knowledge transfer in terms of training the Technical Team of Tripcon for operating & maintaining the machine, handing over of final CAD Design, Arduino Code, and Operating & Technical Guidance Manuals has been done successfully

## CERTIFICATE OF APPRECIATION:



### Certificate of Achievement

Date: 28/08/2021

The project 'Automation of Industrial Mechanical Power Press' is successfully completed by the students of S.P.B. Patel Engineering College (Saffrony Institute of Technology, Mehsana) under their faculty's guidance, as desired and approved by Tripcon Engineering Pvt. Ltd. As of this date, the test runs have been conducted and we have been able to achieve a 247% increase in production and 50% reduction in labor with the help of this project, which is very commendable. The knowledge transfer in terms of training the Technical Team of Tripcon for operating & maintaining the machine, handing over of final CAD Design, Arduino Code, and Operating & Technical Guidance Manuals has been done successfully.

We would like to congratulate the students **Siddharth Rami, Yash Gajjar, Krunal Patel and Apurva Sheth** who have accomplished this project under the guidance of Prof. Chitralekha Nahar of Saffrony Institute of Technology, Mehsana, and Tripcon's Technical Team. Also, we appreciate the efforts of the Management of the Saffrony Institute of Technology in taking such an initiative.



Krunal Patel  
Production Head