

PROJECT TITLE IS TOOLS MAINTENANCE DIGITIZATION

Master thesis project presented by the student name Mushahid Ali, to obtain the master's degree of chemical engineering from University of Rovira i Virgili, Tarragona. He completed this project in the company named Saint Gobain Sekurit Arboc. The address of Saint Gobain Sekurit Arboc is Crtra N340 km 1199 ARBOC CP 43720.

In the company Saint Gobain Sekurit L'arboc there is a maintenance department to perform maintenance activities. Which do revisions of the tooling's that includes inspection, cleaning, replacement of the spare parts if it's not working and adjustment etc. But the services performed in the maintenance department are being outsourced from an external company. So due to the lack of communication between tooling department and the production line any fault detected is reported to the area specialist not to the maintenance department, which causes problems. Moreover, as the service is being outsourced the consumption of the spare parts and the different gadgets are not under the monitoring of the Saint Gobain, therefore, Saint Gobain does not have economic control of the process.

Because of these reasons Saint Gobain decided to internalize the maintenance department in January 2022 and digitalize the maintenance work.

The digital world is bringing so much changes in every aspect of life and helping in improving and reshaping the way of work. Digitization of maintenance tools improves the efficiency of work and management of maintenance system. Digitization of maintenance tools provides an online access to the maintenance task, schedule and status of the equipment's which improves the communication between production line and maintenance department. Digitization besides from increasing the efficiency of the work also saves the records and the data related to the equipment's in case any natural disaster occurs or any loss happens.