

C016135 : MAJOR INDUSTRIAL ENGINEERING

KEY WORD : PRODUCTIVITY IMPROVEMENT/SYNTHETIC-MARBLE SANITARY WARE PLANT
MONTREE PIPATPAIBOON : PRODUCTIVITY IMPROVEMENT OF A SYNTHETIC
MARBLE SANITARY WARE PLANT IN THAILAND. THESIS ADVISOR : ASSO.PROF.
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The Thesis is aimed to study the proper method for the productivity improvement of a synthetic marble sanitary ware plant. The procedures to improve the productivity include manufacturing improvement, organization, plant layout and inventory management.

The result of this study shows the causes of poor productivity : improper organization, poor communication between stations, as well as inappropriate plant layout, inventory management and amount and size of the mold.

After this improvement, the average production rate per month of cultured marble and onyx is increased from 3,497 kilograms/month and 112 kilograms/month to 6,583 kilograms/month and 197 kilograms/month respectively. It also increases the production rate per man-hour for cultured marble from 0.228 kilograms/man-hour to 0.430 kilograms/man-hour and onyx from 0.007 kilograms/man-hour to 0.012 kilograms/man-hour.