This research was to study the development of quality control system of a plastics product by compounding process concerning with 3 main factors, namely raw materials, machines, and men. The study was also to improve the quality system for conformance to the ISO 9002 standard. Furthermore, the quality system checking and auditing which affected the plastics compound product were also studied and established.

In this study, a plastics resin factory in Thailand was selected as a sample. Its general background, management, process and quality control were all studied in order to develop the quality control system, and set the plan for quality system checking and auditing as the following activities:
    1. Proposing the sampling plan of raw materials to increase the reliability for the receiving of raw materials;
    2. Designing the documents for maintenance and providing the guideline for machine calibration procedures;
    3. Suggesting the following up and evaluation method for workers' training, and work quality control;
    4. Improving the quality system for conformance to the ISO 9002 standard, and set the plan for the quality system checking and auditing in the sample factory.

In each activity, the documents used in quality control system were improved or newly designed in order to control the quality system and improve the efficiency of the system. In addition, the plan for the quality system checking and auditing could assist to ensure that the quality system would be continued to operate well.

ภาควิชา   วิศวกรรมอุตสาหการ   ลายมือชื่อนิสิต ....

สาขาวิชา   วิศวกรรมอุตสาหการ   ลายมือชื่ออาจารย์ที่ปรึกษา...........

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