

ABSTRACT

As a growth company STP RUBBER has get many request order product from the customer. Due to limitation system in STP RUBBER, some of order from customer cannot be completed or can only produce half of order. This happened in case of PT Bravo Motor which orders 34.936 pcs but STP RUBBER can only produce up to 14.870 and the rest 20.066 failed to produce. There are many factor due to failed in producing order therefore the objective of this thesis is to auxiliary reduce finishing time in producing order from customer, with the result that in the same time production than the number of product will increase.

This Thesis use combination of SPT and CDS scheduling method, this is to handle problem which happened in STP RUBBER. STP method use to count machine scheduling which has parallel characteristic, while SDC use to count schedule system serially from flow shop in existing system. The objective from this method is to minimalism overdue and to reduce time in production. Scheduling method supported by System information which function to make easier in product scheduling.

Refer to STP and CDS algorithm number of product is 14.870 can be produce faster, from 192, 76 hour in current system up to 103, 46 hour using new system. Production increase 62,086 % from current number of product which delayed before 20.066 pcs. By mean of using SPT and CDS method even tough cannot achieve number of request order but it can increase number of production. This scheduling also supported by system information which can be relying on than existing system.

Keyword : Scheduling, production, system information