

ABSTRACT

CV Cahaya Agung as one of middle scale company for manufactur producing Tire. CV Cahaya Agung confronted by the existence of problems of concerning handicapped or unsuccessful product, so that by dozens CoPQ which must be released by the company. So that CV Cahaya Agung require to repair effort to lessen the handicapped product by finding and controlling factors having an effect on to its product quality.

Pursuant to mentioned, researcher try to use the Method of Six Sigma to increase quality of tire product which during the time often experience of the handicap and damage that happened wrongly one method of quality operation that is Six Sigma. Six Sigma represent an systematic quality operation method, erudite and each decision based on data and fact. Step which must be done in Six Sigma for are *Define, Measure, Analyze Improve, Control*, often shortened by DMAIC. In this research done until phase *Improve*. In phase *Define* done a production process perception, identifying Critical To Quality to be used as focus from this research, problem formulation and intention of implementation of Six Sigma , and also done high level mapping process. Later at phase measure measurement of performance quality at level output and level process. In phase Analyze will be identified a source and grow on the cause of incidence quality problem and also last phase *Improve* of where made by a design of experiment and strategy scheme for minimaze of incidence of handicap product of tire.

Pursuant to perception from 20 Februari - 30 April 2006, the following performance eksistence company :

NO	Process	Sum up production	Sum up defect output	Sum up defect type	DPMO	Sigma
1	Mixing	234	21	1	89744	2,85
2	Pemilahan Compound	1509	84	1	55666	3,09
3	Building	1021	59	1	57786	3,07
4	Output	922	113	5	24512	3,47

Assess the kapabilitas sigma and DPMO yielded show the storey level of performance the company in its process quality operation. This result a long way off from target of six sigma expected able to yield 3,4 DPMO and 6 sigma (zero defect). So that the result is needed going concern repair and operation of product quality.

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