

ABSTRACT

This project report studies JIT system Aided Automobile Manufacturing Process Improvement, especially, in Toyota Plant Thailand (TPT), at Gateway Industrial Estate, Chachoengsao Province. The objectives of this report are: To study existing JIT process of TPT, to study the improvement of the automobile quality under JIT and analyze advantages and disadvantages of JIT.

In TPT, they have started manufacturing the automobile since 1996. TPT have developed JIT system all the time. For example, the improvement of kanban system. The system can be applied both in-put (parts assembly) in production line and out put (finished products) delivered to their dealers with the right time and right information. The improvement is based on 5 activities; Jidoka, Kaizen, Hejunka, Standardized Work and JIT.

The study shows that the TPT have improvement after developing e-kanban in 2004. There has improved in 3 major items as follows:

- (1) Improvement on sales that can be increased from 28% in 2001 to 35% in 2003.
- (2) Improvement in Production volume that can be increased 650% and inventory cost can be reduced 20% in 2004.
- (3) Improvement on Human resources that can be reduced man hour/month 75% and will be 100% in 2004.

In summary, TPT have a successful in developing JIT all the time to improve their business. In the future, TPT will use more innovative ideas from all human resources level and computer technology. But the cost of JIT can be too high for many organizations to consider. Moreover, they have to study JIT philosophy in deeply details.