

COLLEGE OF ENGINEERING AND TECHNOLOGY
De La Salle University – Dasmariñas
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A Practicum Study Presented To the Faculty of
College of Engineering and Technology
De La Salle University – Dasmariñas

**REDUCING THE CHEMICAL OXYGEN DEMAND (C.O.D.) IN THE
WASTEWATER OF PIGMENTEX INC.**

In Partial Fulfillment
of the Requirements for the Degree
Bachelor of Science in Industrial Technology

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March 2005

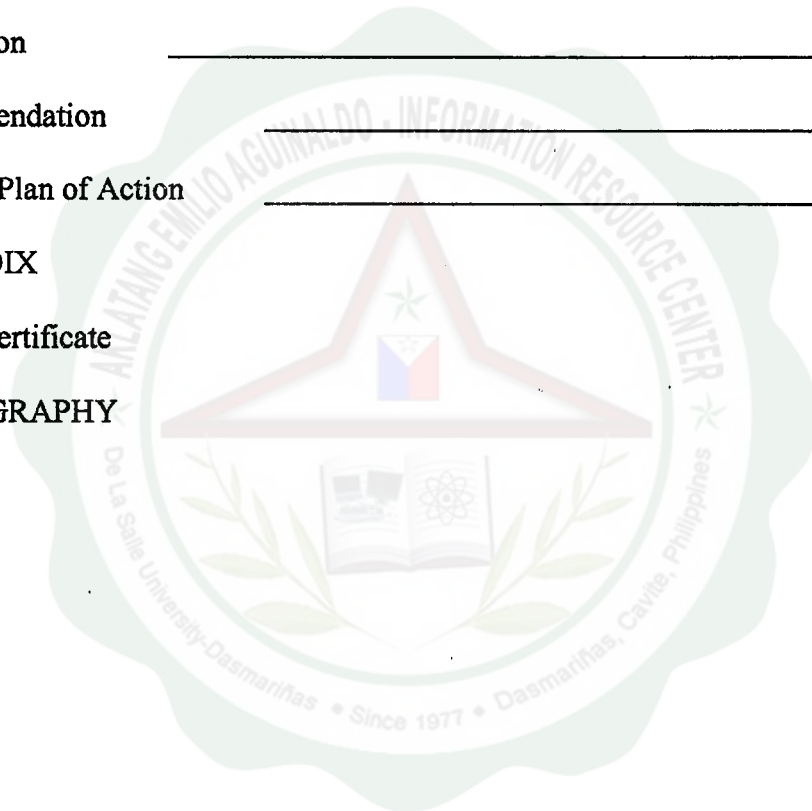
AKLATANG EMILIO AGUINALDO ARCHIVES

JUN 11 2008

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Conclusion

There are many problems that arise from the individual plant and some solutions can be applied to it. Focusing on little and simple parts of the problem will help prevent the problem to become worse and difficult to handle.

Based on the data presented and analysis, the proponent conclude that if the individual and the management will focus on the improvement of the wastewater treatment process, C.O.D. output will reduced; thereby the unnecessary expenses of company can be eliminated. These were based on various concerns such as: research for new bacteria, expansion of ponds to accommodate the increased flow rate of wastewater. In a greater context, the technical aspects in improving the treatment process must be given some concern to avoid further expenses of the company and damage in the environment.

Recommendation

The researcher wants to recommend a more practical solution and effective way to reduce the C.O.D. level in the wastewater released by the production area of Pigmentex Inc.. This recommendation will give extra space for the increased volume of the wastewater and a possible reduction of the C.O.D. level.

The recommended alternative is ACA # 3, which is to put additional equipments in between the process to neutralize the C.O.D. level. This equipment such as Cavitation Air Flotation (CAF) will help to reduce the level up 60% every time it will pass to its process. Another equipment is the Clarifier that will provide enough room for the increased volume and could help reduced the C.O.D. level.

With this equipment, the company can now eliminate the transferring of their wastewater that gives unnecessary cost for the company. This ACA #3 prove to be the best solution to solve the problem in their wastewater with more accuracy of reducing its level.