

CASE STUDY ON WASTE WATER MANAGEMENT SYSTEMS ADOPTED BY DIFFERENT INDUSTRIES

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By

SAJITH NISHSANKA JATHUNGE

**Bachelor of Science in Palm & Latex Technology and
Value Addition**

**Faculty of Animal Science and Export Agriculture
Uva Wellassa University of Sri Lanka**

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ABSTRACT

Different industries discharge waste water with different contaminants in the production process. The heavy metals and other inert materials present in waste water will contaminate the environment by causing normal drainage systems and natural water resources polluted. Therefore, it is a timely need to study detail on potential industries that generate waste water and their adoption measures at present to treat the waste water. With that objective twenty companies that represents eight different industries were identified using secondary data and a structured questionnaire was used to collect data in this study. Data were analyzed by descriptive analysis method using Minitab 17 software. The findings of this study emphasized that different industries have adopted to different waste water management system and analysis methods, however their waste water treatment methods at present are of very expensive. Further cost for water consumption by eight different industries are significantly different in monthly basis and recorded an average of Rs. 4,700,000.00 per month. Among eight different industries and the highest cost recorded in glove industry that costs about Rs. 5,000,000.00 per month. Moreover, 98% of industries prefer to implement a cost effective waste water treatment method in which each industry would be able to reuse the water and enhance the efficiency of water usage in a sustainable way.

Key words: Waste water treatments, Heavy metals, Industries, Water reuse