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Methodology for Performance Analysis of Textile Effluent Treatment Plants in Bangladesh

Mohidus Samad Khan, Shoeb Ahmed, Alexandra E. V. Evans, Matthew Chadwick

Abstract

The efficiency of individual units of an effluent treatment plant (ETP) determines the overall performance of the plant and the final effluent quality. In this study an ETP of a composite textile industry was investigated using this method. Water samples were collected from the main units of the ETP and were analyzed for key parameters. The results were used to diagnose problems with the treatment units and to suggest modifications. From this, a simple but robust methodology was developed for evaluating the performance of the different treatment units and the ETP as a whole that could be implemented by ETP managers on a regular basis to improve the performance so that the effluent leaving the factory meets national standards and conforms to the requirements of international buyers. The results showed that poor management, especially chemical dosing, was seriously affecting the ETP's performance and that simple measures could address the problems.

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ABOUT THE AUTHORS

Mohidus Samad Khan
http://sites.google.com/site/mohidsk
Australian Pulp and
Paper Institute, Dept
of Chemical
Engineering, Monash
University, Clayton,
VIC 3800, Australia
Australia

Shoeb Ahmed
Department of
Chemical and
Biomolecular
Engineering, North
Carolina State
University, Raleigh.
NC 27695, USA
United States

Alexandra E. V. Evans International Water Management Institute, 127 Sunil Mawatha, Pelawatte, Battaramulla, Sri Lanka Sri Lanka

Matthew Chadwick Stockholm Environment Institute, University

of York, UK United Kingdom

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