



International Journal of Advanced Scientific Research & Development

p - ISSN : 2394 - 8906 e - ISSN : 2395 - 6089 Impact Factor : 3.151



International Journal of Advanced Scientific Research & Development (IJASRD)

Volume 04 | Issue 11 | Version I

November' 2017

PUBLISHED BY

International Journal of Advanced Scientific Research & Development (IJASRD)

p-ISSN: 2394 - 8906 | e-ISSN: 2395 - 6089 | Impact Factor: 3.151

80, East Street, Kottucherry Salai, Keezha Nedungadu, Nedungadu - 609 603.

Website: www.ijasrd.org | e-mail: editor@ijasrd.org

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THE APPLICATION OF INDUSTRIAL WASTEWATER MANAGEMENT AT JAKARTA INDUSTRIAL ESTATE PULO GADUNG

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ARTICLE INFO

Article History:

Received: 04 Nov 2017;

Received in revised form:

08 Nov 2017;

Accepted: 09 Nov 2017;

Published online: 10 Dec 2017.

Key words:

Industry,
Wastewater,
Management.

ABSTRACT

This Paper presents a synthetic review of studies and literature concerning the application of industrial wastewater management at Jakarta Industrial Estate Pulo Gadung Jakarta. Over the past ten years wastewater management has been engaged in industrial communities as a key for environmental management. Nearly 89 % of the total industries in Indonesia are located in Urban areas and discharge their wastewater into the river without any proper treatment. They contributed in increasing pollutants such as BOD, COD, and other contaminants like heavy metals for surface water. Many industries at Jakarta Industrial Estate Pulo Gadung do not have any wastewater treatment plant and although they have one, they are not willing to operate the treatment plant. It is caused by lack in technological and process expertise of wastewater. A technological approach like wastewater minimization and practical solution for various characteristics of industrial waste are presented with some illustrations of different processes treatment removal, land or surface area for environmental management and cost of construction and appurtenances.

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INTRODUCTION

Corporate performance is measurable by its activities of which is proving by way of wastewater treatment. Nearly 89 % on the total industries in Indonesia are located in urban area. Those industries discharges wastewater into the river without any proper primary treatment. As illustration, more than 720 industries are registered in the Brantas River (East Java, situation 2003) and 459 are asses as potential polluter for the rivers. They produced in terms of BOD is 82.7 ton / day and the most important part comes from from paper and pulp industries (42 %). In Jakarta region (JABOTABEK) more than 1740

Cite this article as: Harianto, R. A., "The Application of Industrial Wastewater Management at Jakarta Industrial Estate Pulo Gadung". *International Journal of Advanced Scientific Research & Development (IJASRD)*, 04 (11/I), 2017, 01 – 08.
<https://doi.org/10.26836/ijasrd/2017/v4/i11/4111>.

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Research & Development
(IJASRD)
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Impact Factor: 3.151 / Thomson Reuters: P-2945-2017 / CrossRef (DOI Prefix):
10.26836 / Google Scholar / etc.

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