

Review Form 1.6

Journal Name:	Journal of Energy Research and Reviews
Manuscript Number:	Ms_JENRR_87805
Title of the Manuscript:	Application of a Sludge Blanket Reactor for Effluent Treatment - A Laboratory Study
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljenrr.com/index.php/JENRR/editorial-policy>)

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The manuscript entitled: 'Application of a Sludge Blanket Reactor for Effluent Treatment - A Laboratory Study' shows several lacks. The introduction part needs substantial improvements, and provide a better background to readers. Furthermore, the references are scarce and not sufficient. Part 3 (RESULTS AND DISCUSSION) shows only the results without discussing them. Then, the discussion should be added, the reported data should be compared with the literature. Authors may add some of these manuscripts to improve the quality of the reference: ' https://doi.org/10.3390/en12010021 , https://doi.org/10.1080/09593330.2018.1477839 and Activation of Peroxydisulfate by Bimetallic Nano Zero-Valent Iron for Waste-Activated Sludge Disintegration'. The manuscript should be checked and the units should be unified. English should also be checked. There are several typos.	
Minor REVISION comments	'The process generating biogas is complex and a form of biocenosis in which many different bacteria live together in a habitat'. Citation should be added 'Together they are capable to break down organic material into products like biogas, water and new bacterial biomass'. Citation should be added 'The processes could be roughly classified into four groups, acitogenic, acetogenic and methanogenic bacteria'. Citation should be added 'Enzymes and fermentative bacteria break down the substances in the influent into more complex sugars and acids (hydrolyses)'. Citation should be added 'Acetogenic bacteria degrade those components further into smaller organic building blocks like alcohols, organic acids and sugars, thereafter acetogenic bacteria into acidic acid'. Citation should be added 'Methanogenic bacteria uses then the acidic acid as typical building block for forming biogas'. Citation should be added 'Until today, it is still not completely clear how the whole processes in a biocenosis work to degrade biological degradable material into biogas.' Authors should report the various hypotheses supported by the literature	A review paper of anaerobic digestion has been added as citation for the mentioned topic.
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	