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Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	**Ms_ JERR _53865**
Title of the Manuscript:	**DEVELOPMENT OF A SAWDUST FIRED FLUIDIZED BED REACTOR FOR SYNTHETIC GAS PRODUCTION**
Type of the 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:

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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	**This paper is proposed for publication in Journal of Applied Science and Technology because it has been written well and its subject can be in the journal scope. However, there are a few comment that need to be considered absolutely before publishing.** **1. Synthetic that has been brought in the title is referred for biomethane (synthetic natural gas (SNG)) that can be produced from biomass gasification integrated with CO2 capturing system. However, in this paper is not regarding to SNG so need to remove from the title. Title can be changed to:** ***Development of a sawdust fluidized bed gasifier: Design and fabrication*** **2. In the introduction need to be talked more about the gasification and its advantageous. For this part, you can use from the below papers and be referred:** 1. Eikeland, M. S., & Thapa, R. K. (2017). Stepwise analysis of gasification reactions with Aspen Plus and CPFD. 2. Safarian, S., Richter, C., & Unnthorsson, R. (2019). Waste Biomass Gasification Simulation Using Aspen Plus: Performance Evaluation of Wood Chips, Sawdust and Mixed Paper Wastes. 3. Pala, L. P. R., Wang, Q., Kolb, G., & Hessel, V. (2017). Steam gasification of biomass with subsequent syngas adjustment using shift reaction for syngas production: An Aspen Plus model. *Renewable Energy*, *101*, 484-492. 4. Safarian, S., Unnþórsson, R., & Richter, C. (2019). A review of biomass gasification modelling. *Renewable and Sustainable Energy Reviews*, *110*, 378-391 Kaushal, P., & Tyagi, R. (2017). Advanced simulation of biomass gasification in a fluidized bed reactor using ASPEN PLUS. *Renewable energy*, *101*, 629-636.	
Minor REVISION comments		
Optional/General comments		

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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)*	

Reviewer Details:

Name:	***Sahar Safarian***
Department, University & Country	***University of Iceland, Iceland***