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Performance Evaluation of Cyclone Type Scrubber for Bio Gas and Comparison with the Water Scrubbing

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Abstract: Nowadays the scarcity of fuel is one of the biggest economical problem which is related to the pollution for the world. Thus, in this scenario the biggest issue in front of the world is to develop a alternative fuel technology which can be economical as well as ecofriendly. The fuel to be used should also be having the less pollution capacity. India is the county which has the 70% of total pollution due to the agricultural activities. Thus, the biomass available in terms of agricultural waste and cow dung can be used for generation of methane/biogas using anaerobic digestion process. The most important content of the biogas is methane and also it consists of about 20% carbon dioxide. Thus, to remove such carbon dioxide water scrubbing and cyclone scrubbing are used and results are compared with methane analyzer is the main aim of present work.

Keywords: Role of biogas as fuel, Biogas Scrubbing, Water Scrubbing, Cyclone type Scrubbing.

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INTRODUCTION