ABSTRACT Proceedings of International Conference on "Recent Advances & Innovations in Technology, Management & Applied Sciences" (ICRAITMS-2021) Organized on 19th and 20th March 2021

Paper ID: ICRAITMS_202012_106

HIGH RATE BIO METHANATION OF VEGETABLE WASTE TO GENARATE BIOGAS AT MONDA MARKET, HYDERABAD TELANGANA.

SANDHYA KIRAN J.K¹, P.MANIKANTA², K.SAI PAVAN³, G.SAI KRISHNA⁴

¹M.E (Water Resource Engineering), Asst. Professor, St. Martin's Engineering College, Hyderabad, India, 500043.

²Btech student, St. Martin's Engineering College, Hyderabad, India, 500043.

ABSTRACT:

A biogas plant is modern energy source and is suitable to the necessities of the future. With the appropriate application of the digestion technology, the development of economically feasible organic waste biogas digesters which produces electricity is not beyond the realm of possibility. The central purpose of the study is to design the proper power generation unit based on organic waste and to calculate the efficiency of power generation in Monda market of Secunderabad, Telangana. The production of biogas by anaerobic digestion of organic waste is a mature expertise that may present tangible benefits to society. Organic biogas technology can alleviate many grave problems in the developing countries,

"The Bowenpally vegetable market has caught Prime Minister Narendra Modi's attention for its innovative waste management system. He praised the one-of-its-kind bioelectricity, bio fuel and bio manure generation project in his 73rd episode of his monthly radio programme Mann ki baat on Sunday" It can develop in areas such as rural energy scarcity, low agriculture yield and waste management. In addition through the utilization of biogas technology toxic farm waste can be properly handled through anaerobic digestion, generation of natural fertilizers and ultimately lead to an increase in output and income. From analysis it will become apparent that markets using digesters systems have greater earnings or benefits than those markets who do not resulting in the preservation and increase viability of the organic waste.

Key words: Biogas, Digesters, Electricity, Efficiency, Anaerobic, Organic waste, Scarcity.

UGC AUTONOMOUS

ISBN: 978-93-82829-41-6