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Biologically Pretreated Coir Pith as a Substrate for Biomethanation in Batch Fermentation

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Abstract: Using batch fermentation, biologically pretreated coir pith was used as a substrate for biomethanation. Over the digestion period, total solid was reduced likely to 24.5% and bio polymers also reduced. There are five substrate inoculum ratios of 1 to 5, were maintained against the fixed percentage of substrate TS. The total retention period was 50 days. Biochemical methane potential was cumulatively recorded as 190 L/Kg TS in the retention period of 50 days.

Key words: coir pith, biological pretreatment, anaerobic digestion, total solids, biogas.

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