

STUDIES ON THE COMPOSITION AND BIODEGRADATION OF
CANE MOLASSES DISTILLERY SLOP OF THE SEVANAGALA SUGAR FACTORY

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The effluent of the Sevanagala Sugar Project distillery was collected and analysed for pH, Brix, Ash, Sugars, Nitrogen, Phosphorus, Potassium, Calcium, Magnesium and Carbon contents. Studies on the biodegradation was done at a specific time and temperatures using the standard biochemical oxygen demand (B.O.D.) test. Total organic matter content was estimated using the chemical oxygen demand (C.O.D.) test.

The effluent consisted of pH 4.5, Brix 9.5, Reducing sugar 1%, ash 6.5%, Calcium 0.8%, Magnesium 0.3%, Phosphorus .03%, Potassium 1%, Nitrogen 0.2% and Carbon 33%. Results showed that the distillery slop contained 68250 mg/l of organic matter and the 5 day Biochemical Oxygen Demand was 38500 mg/l.

References: G. Gundu Rao, (1966). Effluent Disposal in alcohol Industry, Souvenir - All India Distilleries Association, New Delhi.

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