

Studies on Pulp and Paper Making Characteristics of *Saccharum Spontaneum*

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ABSTRACT

The study aims at assessing the suitability of *S. spontaneum* for pulp and paper making. The proximate chemical analysis indicates that it is a bulky material having comparatively lower extractives and lignin content with higher holocellulose content. It requires lower cooking chemicals and shorter cooking cycle in order to produce chemical grade pulp. The unbleached pulp shows good response towards O₂ delignification and reduces kappa number by 62 per cent. The pulp shows good response towards multi-stage bleaching sequence and produces a pulp of high brightness ceiling.

Key Words: *Saccharum spontaneum*, soda pulping, proximate chemical analysis, O₂ delignification, multi-stage bleaching