

# Effects of Chitosan as Dry and Wet Strength Additive in Bamboo And Acacia Pulp

Sarwar Jahan M., Noori A. and Ahsan L., Chowdhury D. A. Nasima and Quaiyyum M. A.

## ABSTRACT

Chitosan was evaluated as a wet and dry strength additive in laboratory produced bamboo and *acacia auriculiformis* kraft bleached pulps. Chitosan was found to increase the wet strength. Tensile, burst and tear index were also found to increase up to 0.5 -1 % chitosan addition in both pulps. The effects of chitosan depend on the pH of the stock. The best results were observed at pH 10 for bamboo pulp and pH 7 for acacia pulp.

**Keywords:** Paper additive, Chitosan, Wet strength, Dry strength, pH,