

# Effect of Cationic Starch and Long Fiber Pulp in the Development of Burst and Tear Index of Recycled Bagasse Paper

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## ABSTRACT

The bursting and tear strength of paper are the important properties; since these are very much essential various grades of paper like computer stationary, carry bag and kraft papers. The commercial bleached bagasse pulp was used in the present study and the use of cationic starch along-with the retention aids was incorporated to recover the loss in the burst index and the tear index of bagasse paper. As bagasse pulp has low recycling potential, therefore, its blending with bleached bamboo pulp in different proportions was studied to improve the burst and tear index of paper as well as the recycling potential of the paper. To attain the optimized strength properties of the paper produced for the specific use, the blending of long fibered pulp and the addition of strength improving chemicals were carried out on the stoichiometric basis in the furnish for paper making. The agro-residues and secondary recycled fibers seem to be the promising raw materials of the future.