

Effect of Enzyme Treatment on Mix Agro Pulp Quality and Chemical Consumption.

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The awareness and the concern about AOX and its Control started in India in the last few years which forced the Industry to use the enzyme in pulping as well as in bleaching of Agro Pulp. The Various measures taken by the pulp and paper industry to maintain the desired pulp brightness with reduced chemical consumption during past few years yielded substantial improvement in pulp quality and reduction in chemical consumption in pulping and bleaching of Mix Agro pulp.

Detailed lab and plant scale biopulping and biobleaching trials have been carried out in mix agro pulp, like wheat straw and sarkanda, resulted in lowering of the Kappa number in pulping and reduction of chlorine during bleaching. Bleaching was carried out under C-E_p-H-H sequence alongwith enzyme for attaining the same level of brightness with reduced chlorine demand or improved brightness with same chemical dose.

The enzymatic pretreated pulp showed better strength properties, reduced P.C.No. and substantial reduction in chemical consumption and reduced AOX level in final effluent