

# Technical Upgradation In Pulp Washing & Bleaching Stages To Improve The Final Pulp Quality And To Reduce The Pollution Load

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## ABSTRACT

To meet the present day market demand in quality product, there was a high stress on pulp mills to deliver highest quality of pulp with low operating cost in production to maintain profitability apart from meeting the norms stipulated by CREP, Central and State pollution control boards. Keeping this in view, improved washing and bleaching methodologies were followed. Washing considerations for effective pulp bleaching in hardwood Kraft line and the application of suitable wash aid chemicals in the brown stock washing have proven to be the cost effective solution. By using wash aid, reduction in alkali (Soda) loss, uniformity and increase in black liquor solids are observed. Partial dosage of  $\text{ClO}_2$  in Chlorination stage increased the brightness of pulp and reduced the pollution impact apart from getting improved pulp viscosity. Effective oxidation by the addition of hydrogen peroxide in E(o) stage increased the brightness of pulp and reduced the CE kappa of the pulp and filtrate color.