

RECAUSTICIZING SYSTEMS

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Kraft Pulp Mill

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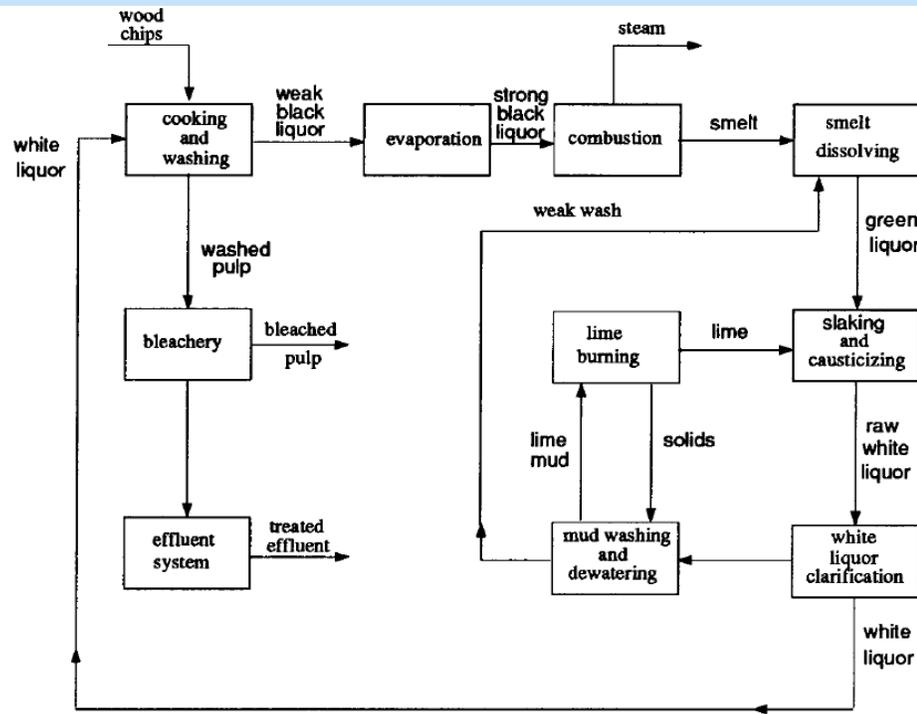


Figure 1.1: A Typical Kraft Pulping Plant

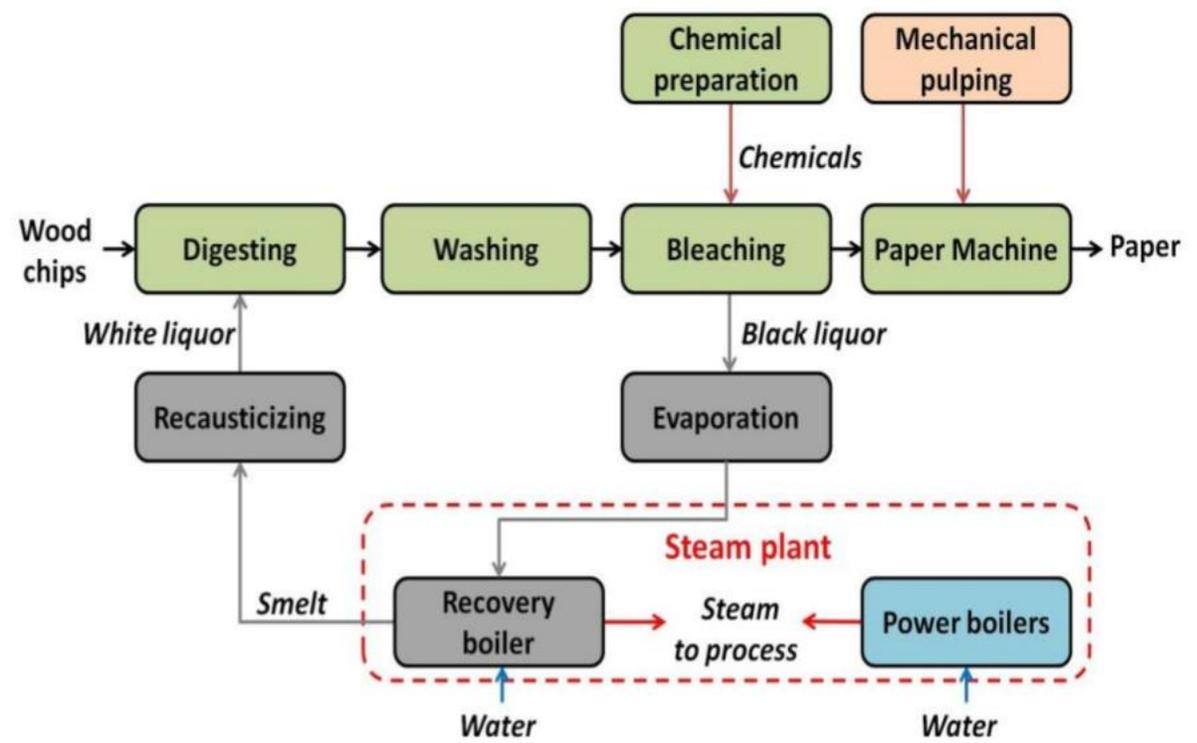


Figure 2-1 : Simplified diagram of the case study Kraft pulp mill

The main purpose of the pulp line is to remove the lignin from the fibers and produce a pulp of

The **Kraft process** is known to be energy intensive and a large consumer of chemicals.

The main purpose of a **Kraft pulp mill** is to produce pulp at a given brightness while minimizing energy costs, utilities and chemicals used

Three main reactions take place in the recausticizing department.

First, the causticizing reaction that occurs in two steps: the lime reacts first with water (“slaking”) to form calcium hydroxide Ca(OH)_2 , which in turn reacts with sodium hydroxide:

- $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$ (exothermic reaction)
- $\text{Ca(OH)}_2 + \text{Na}_2\text{CO}_3 \leftrightarrow \text{CaCO}_3 + 2\text{NaOH}$ (equilibrium reaction)

Then, the calcium carbonate is converted to lime in the lime kiln: □ $\text{CaCO}_3 + \text{Heat} \rightarrow \text{CaO} + \text{CO}_2$ (combustion of the lime mud)

TNPL TAMIL NADU NEWSPRINT AND PAPERS LIMITED
GLOBAL NOTICE INVITING BIDS
FOR
PROCUREMENT PACKAGES OF TNPL UNIT-II MILL EXPANSION PLAN
 Tamil Nadu Newsprint and Papers Limited (TNPL), which owns and successfully operates a 250,000 tpa Multilayer Coated Board Mill at Mondipatti, Trichy District (Unit 2) in the State of Tamil Nadu, India, is embarking upon a Mill Expansion Plan. TNPL now invites sealed bids for the following packages:

Sl. No.	Title	Date of issue of bids	Due date	Bid fee (Rs.)	Qualification of bidder (Additional qualification details available in bid documents)
1	Lime Mud reburning kiln	18.03.2019	20.05.2019	25,000/-	The bidder shall be a reputed manufacturer having designed, manufactured, supplied and successfully commissioned at least two (2) Lime Mud reburning kilns in the past 10 years, with capacity to produce not less than 250 tpd of burnt lime each, and should be in successful operation atleast for the last six months.
2	Recausticizing Plant	11.03.2019	10.05.2019	25,000/-	The bidder shall be a reputed manufacturer having designed, manufactured, supplied and successfully commissioned at least two (2) Recausticizing Plants, each capacity not less than 25% TPD of Active Alkali as Na ₂ O (equivalent to 2600 m ³ of white liquor) in the past 10 years, which are in successful operation atleast for the last six months.
3	Air Cooled Condenser	06.03.2019	10.04.2019	10,000/-	The bidder shall be a reputed manufacturer having designed, manufactured and supplied at least three (3) Air Cooled Condenser of Steam Condensing capacity of not less than 50 tph with a Heat Removal Load of not less than 25 Million kcal/h in the past 5 years, which are in successful operation, at least for the last one (1) year.
4	Chipper house	28.02.2019	11.04.2019	10,000/-	The bidder shall be a reputed manufacturer having designed, manufactured, supplied and successfully commissioned at least two (2) complete chipping lines in the past 10 years, with capacity chipping lines each, that 2000 BD TPD chipping feeding, washing, includes wood log screening and re-chipping, chipping, screening and re-chipping, and should be in successful operation at least for the last six months. The reference chipping lines shall be chippers of capacity not less than 50 tpd each, to enable qualification.

Interested Bidders may purchase a complete set of bid Document, as per bid Issuance schedule stipulated above, against submission of a written application to TNPL and upon payment of applicable non-refundable bid fee, by way of Demand Draft in favour of Tamil Nadu Newsprint and Papers Limited, payable at Trichy, from the following address:
PROJECT MANAGEMENT DIVISION
 Tamil Nadu Newsprint and Papers Limited
 Karur District

RECAUSTICIZING PLANT

Complete range of equipment for recausticizing system are white liquor clarifier, green liquor clarifier, dregs washer, dregs mixer, lime slaker-classifier, causticizer, lime mud washers and lime mud Filter.

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Objectives of Reausticizing

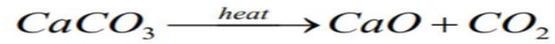
- Regenerate NaOH
- Produce enough white liquor for cooking (and other needs)
- Produce a high quality liquor at minimal cost

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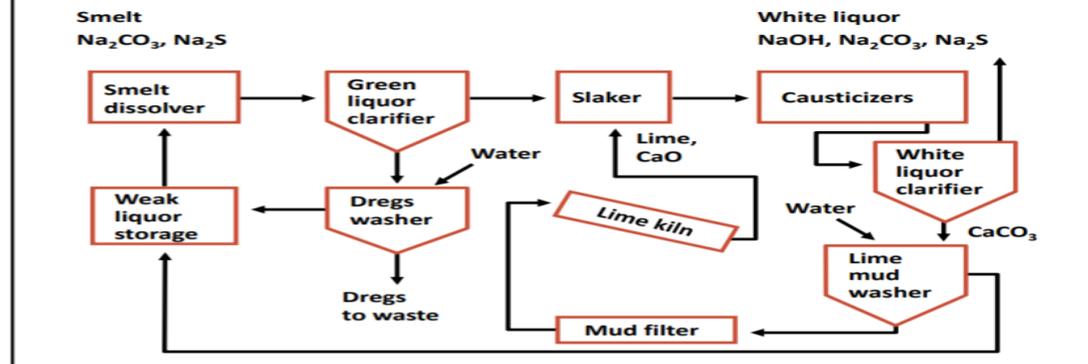
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More details of Recausticizing

Recausticization Reactions



Recausticizing



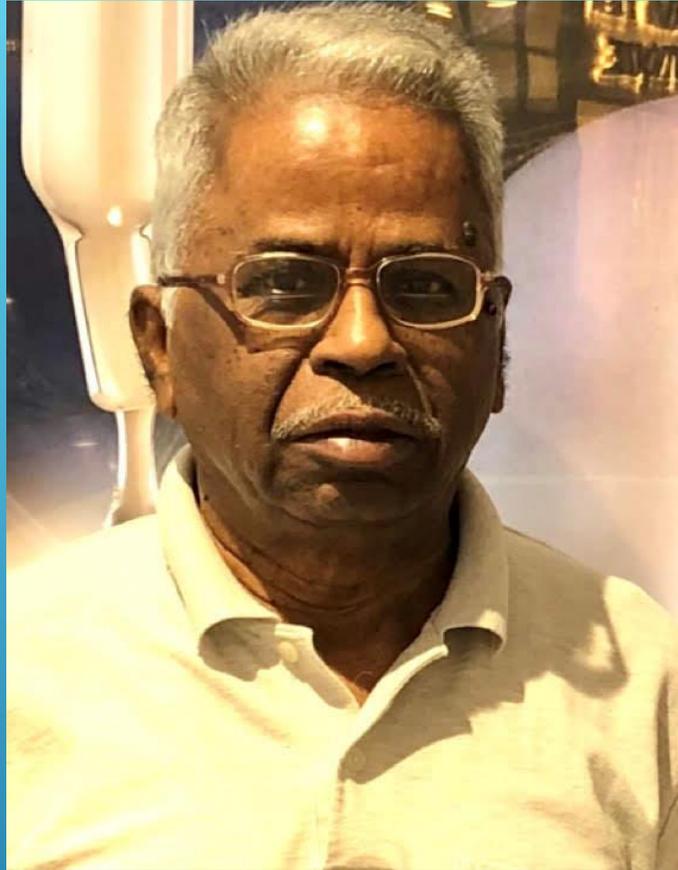
Recausticizing Plant



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QUESTIONS?

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