

Fibre Recovery From The Back Water Of Raw Material Wet Washing System

Gokulakrishnan V., Jawahar S., Pravin M Sanil. & Choudhary Nishant

ABSTRACT

For sustainability and growth of Indian Paper Industry, the technology has to be upgraded to adapt to Indian conditions in view of scale of paper production, raw material scenario and environmental concerns. Paper Industry is looking at innovative ways and means to reduce the production cost, improve quality of the Product, and improve ease of Maintenance. Indian pulp and paper industry is compelled to explore alternate options for Raw Material like Agro waste like Wheat Straw, Rice Straw, Bagasse and equivalent percentage of Secondary fiber due to shortage of Raw material.

In the process of Wet Washing of Agro Based Raw Material, raw material is processed through Wet Pulper to remove silica contents. It is then dewatered through Aqua Separator/Dewatering Screw to improve the Consistency of the Raw Material to be further processed to Digester area.

During this process, an appreciable quantity of raw material is carried over along with the back water. In order to recover the raw material lost along with the back water and to reduce the load on the water clarifier system, DSM Screens play a major role as a scavenger. The DSM Screens recover more than Fibers. It recovers the Cash. It lets Paper industry to put the fibers in the system rather than in Sewer. It increases yield and reduces water consumption. This paves way for enhanced profitability of the mill through better economies of operation.