TANNERY EFFLUENT TREATMENT USING REEDBED AND NANOFILTRATION TECHNOLOGY

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Abstract

Reedbed technology is a very promising alternative for tannery effluent treatment, which is also seen as a ‘green’ water treatment technology. Reeds fit with the landscape and offer ecological added value by providing habitats for wildlife and sustainability, in addition to significantly reduced investment and operational costs compared to a conventional biological effluent treatment system. A new strategy to reduce the cost and environmental impact of tannery operations is to apply Reedbed treatment in combination with membrane technology to reach discharge compliance to rivers and potentially to provide for high quality water recycling.

TCIM - Tanneries des Cuirs d’Indochine et de Madagascar S.A., is a pioneer in implementing this novel hybrid concept of Reedbeds and Nanofiltration. The French tannery is producing exotic leather such as alligator, lizard, crocodile and snake up to finished product for high quality markets. TCIM is giving a special emphasis to environmental protection and safety and is very innovative in respect of new environmental techniques. TCIM is the first European tannery, which has implemented Reedbed technology in combination with Nanofiltration at industrial scale.