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Efficiency Improvement of Tannery Effluent Treatment Plant

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Abstract : The amount of waste water generation is predominantly high in commercial usage when compared to domestic purposes. The process of treating the tannery waste water in an efficient manner can be studied in this project. Through the application of industrially proven low-waste advanced methods such as using salt-free preserved raw hides and skins, hair-save liming, low-ammonia or ammonia-free deliming and bating, advanced chrome management system, etcetera - it is possible to decrease the pollution load expressed as COD and BOD₅ by more than 30%, sulphides by about 60 to 70 %, ammonia nitrogen by 80%, total (Kjeldahl) nitrogen by 50%, chlorides by 70%, sulphates by 65 % and chromium by 90%. Yet, despite all preventive measures, there is still a considerable amount of pollution load to be dealt with by the end-of-pipe methods.

Keywords : tannery, deliming, hides, chrome, ammonia.

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