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Pharmaceutical and Bulk Drug Industry Wastewater – Solutions for Water Treatment

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Abstract:The disposal or treatment of effluents generated in bulk drug industries is the major problem due to its harmful effects on biosphere. As the Effluents from these industries have high pH, floating aerators, oil and grease, suspended solids, dissolved solids, organic matter (BOD & COD), dissolved solids contain inorganic salts like sulphates, chlorides, metal ions and even organic matters like proteins, fats etc.To the posed problems, this approach involves, performing tests in CETP for COD, BOD, TDS, SS, etc. The test results are calculated at input and output of different effluent stages and these properties were compared with the standard norms. Various factor like performance, efficiency, energy requirements and economic factors for different unit operations are calculated and they were compared with the designed data available. This can be used for design of a new plant with similar characteristics with higher capacity.

Keywords:Effluent Treatment, BOD, COD, TDS, SS, CETP.

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