



One Day Industrial Visit to “Common Effluent Treatment Plant”, Pandesarra – Surat

Operation & maintenance of effluent treatment plant for individual industries is challenging task. To overcome the issue of inadequate treatment of waste water, the concept of CETPs were introduced in early 1990s. This was implemented in some of the GIDC estates and clusters of industries located in close proximity. This concept prompted industries individually to treat the waste water to achieve inlet norms of the CETPs, and thus helped to reduce financial and manpower burden on individual industries.

Presently 41 CETPs are there in Gujarat, out of which 33 CETPs are operational and 7 CETPs are either proposed or at commissioning / construction phase and one CETP is ready for commissioning. Out of 33 operating CETPs, 9 CETPs are for treating effluent generated from textile sectors, 2 for electroplating sector while rest are for chemical and other allied industries. The total capacity of 33 operational CETPs of Gujarat is 574.93 MLD.





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In Surat we have a CETP plant at Pandesara. CETP plant is biggest plant in a Gujarat state. The plant capacity is 100 MLD (million lakh liter per day) to treatment waste water to useful water.



1. Primary Treatment of industrial west water (3 Tank with adding Caustic Soda)
2. Secondary Treatment of industrial west water (Separation by Clarifier filter)
3. Tertiary Treatment of industrial west water (Aeration Tank and Press Filtering)





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Common Effluent Treatment Plant (CETP), Pandesara G.I.D.C visit was organized by Chemical Engineering Department of S. N. Patel Institute of Technology & Research Centre Umrakh- Bardoli on 25-01-2019. The benefit was taken by 45 students of 2nd year (2017 Batch) Chemical Engineering Department. It was real practical exposure in “Aeration tank of tertiary treatment of west industrial water” and Clarifier for waste industrial water treatment which never experienced before. The entire “Chemical engineering Department” & “T & P Team” are thankful to “The Principal”, “The Vice-Principal”, “The T & P Coordinator” & “Mr. Praful Panchal, CEO of Common Effluent Treatment Plant (CETP), Pandesara G.I.D.C” for their cooperation and involvement.

