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Guided By

**MR. UTKARSH  
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## **SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA**

### **Project Title**

### **TREATMENT AND ANALYSES OF WASTE WATER GENERATED FROM KHAN SAROVAR TREATMENT PLAN, PATAN**

#### **Abstract:**

Surface water resources are the most precious and direct resources of the water to humans and animals in the world. Many rivers, streams, bays, canals, and also some artificial channels serve as prominent water resources. The quality, quantity characteristics properties are always important for the public considerations. Quantity involves the proposed volume in MCM (million cubic meter) which is supposed to serve the community /city or district. Similarity, quality and characteristics of surface water needs to be assessed so that a good and optional quality water could be served in a city. Here in the proposed study, the water disposed from Khan sarovar treatment plant Patan, Gujarat into the canal is tested for quality and characteristics assurance at various distance from the discharged point. The analysis of the contamination in the canal surface water from the disposed point till the good quality water found has been assessed. The wastewater quality has been studied by taking samples at different distances from the waste water disposal point and the results are intended to be obtained as per water quality standards. This research highlights the present wastewater treatment and management aspects of the city. An attempt has been made to identify the relevant management strategies required to be initiated to improve the wastewater management in the city. The suggestions could be made for utilising the treated wastewater for growing greens, vegetables and for agriculture. At present, the study is progressive and the development of water quality index scale is taking place. The assessment of the water quality parameters affect testing of pH, Turbidity, BOD, COD, TDS, TS is done for 66 Samples taken from 6 discharge points for Eleven months.

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