



An ISO 9001 - 2008
Organization



INTERNATIONAL STANDARD
ISO/IEC-17025:2005 NABL ACCREDITED FOR NDT
(Dept. of Science and Technology, Government of India)



WASTE WATER TREATMENT

1.INTRODUCTION

Various impurities of water and wastewater – Extend of treatment require – Past trends for water and wastewater treatment - Importance of flow in water wastewater treatment – Population forecasting – Prediction of water demand and wastewater generation

2.CHARACTERISTICS

Physical, Chemical and Biological Parameters – Standard Method of water analysis – Optimization – biodegradable waste and agriculture runoff in streams – Pollution - Problem occurring in Plant

3.WATER AND WASTEWATER TREATMENT PLANTS

Effluent treatment – Sewage treatment - Drinking water treatment – Sea water treatment – Designing Plant

4.TYPE OF TREATMENT AND SYSTEMS

Primary, Secondary and tertiary treatment – Sedimentation – Coagulation- Flocculation – Filtration – Ammonia removal - Aeration –Anaerobic and aerobic digestion – Active sludge and trickling filter – ion exchange – Disinfection – Sludge treatment and disposal – Industrial wastewater treatment :characteristics of industrial wastewater – Treatment Level and available technologies

5.DESALINATION

Membrane - MF,UF, NF, RO, operations and calculation – Electro dialysis – Evaporation – solar evaporation, solar Evaporation, etc – Benefits and coast – Calculation.

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