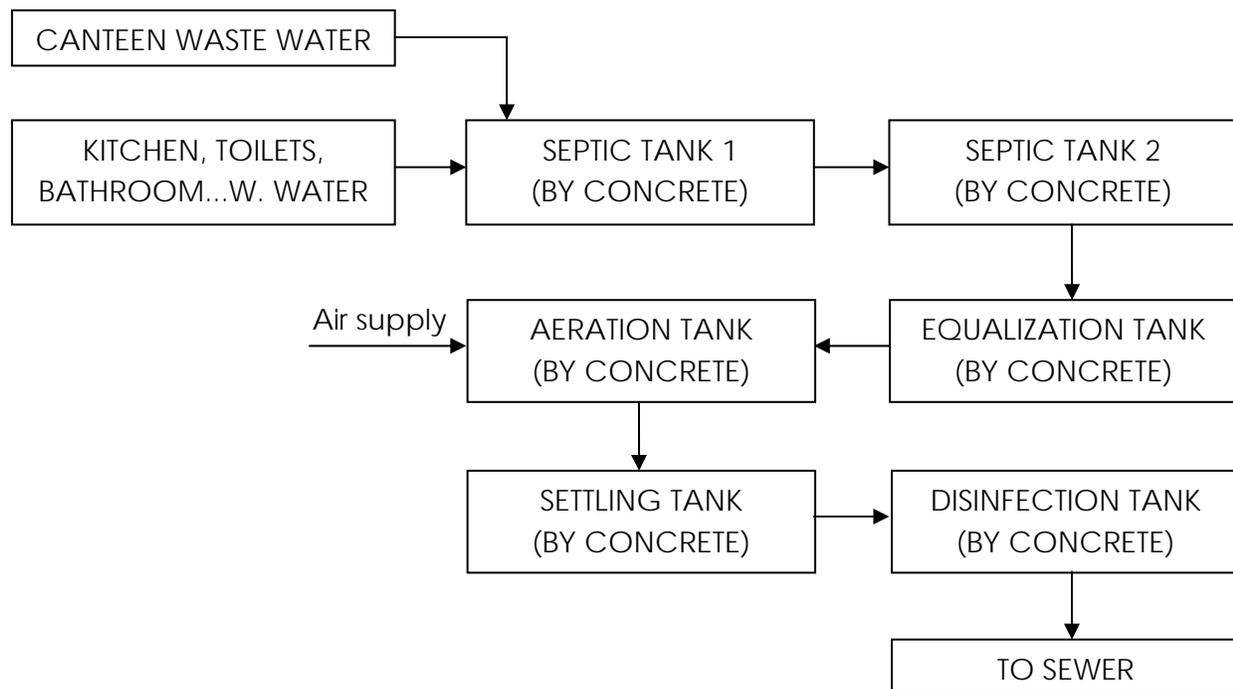


# SEWAGE WATER TREATMENT PLANT

## A. PRINCIPLE OF PROCESS:



1. Waster water from canteens, kitchens, bathroom, toilets... discharge to septic tank 1
2. Septic tank 1 keeps slurry inside and treat waste water by anaerobic bacteria.
3. Steptic tank 2 still progress in treatment with anaerobic bacteria.
4. Equalization tank plays in role of recieving tank to make equable waste water flow.
5. Aeration tank will progress treatment of waste water thanks to aerobic bateria.
6. Settling tank is applied for settling suspended solid.
7. Disinfection tank will eliminate bacteria in water before discharging to sewer.

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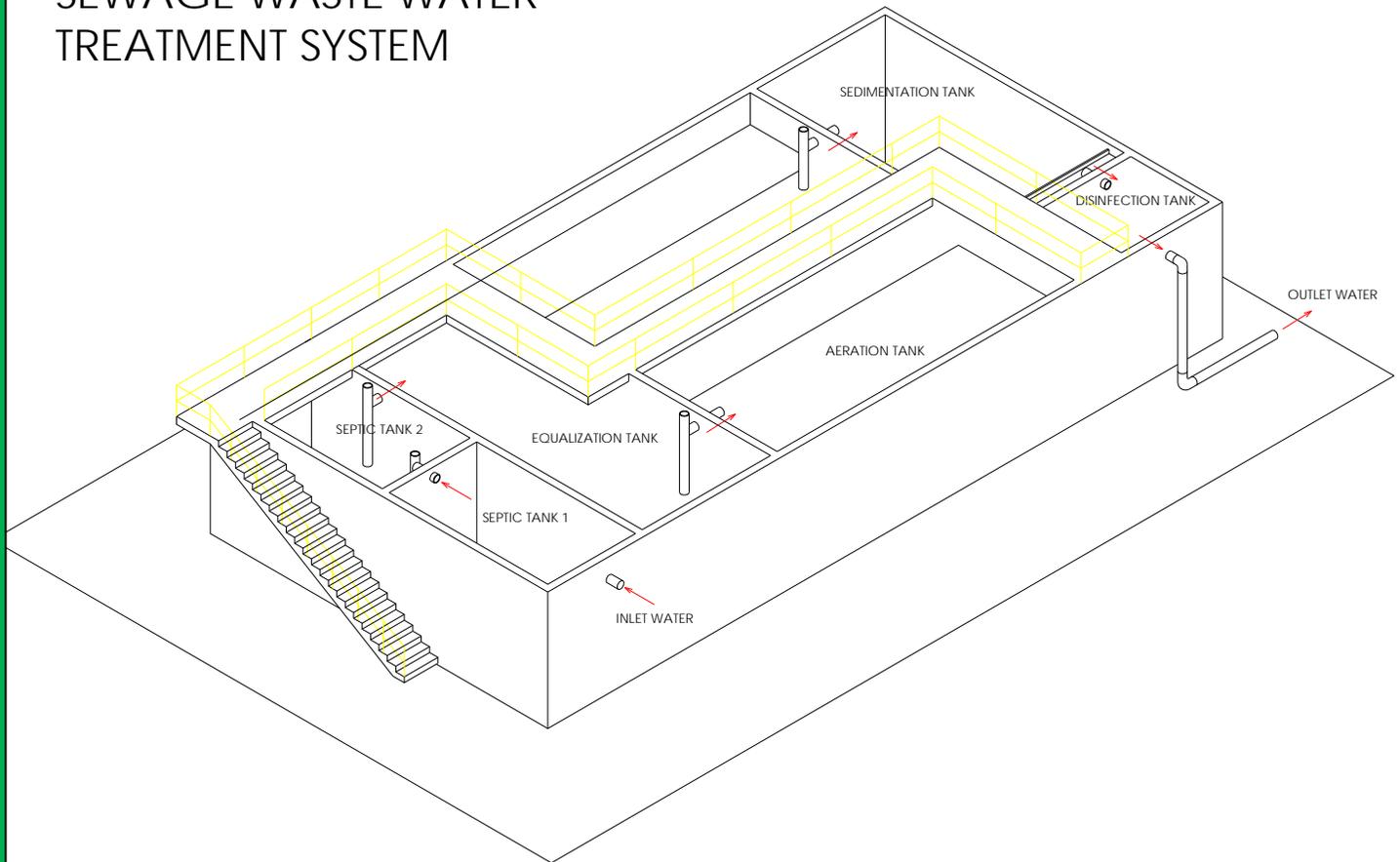
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## B. WASTE WATER PLANT ILLUSTRATION:

### SEWAGE WASTE WATER TREATMENT SYSTEM



This is illustration of sewage waste water treatment plant. Almost treatment tanks made of concrete. System includes:

1. Transfer pumps
2. Blowers
3. Contact Media
4. Chemical dosing system

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5. Process piping ( PVC & SGP )
6. Control Device
7. Control Panel & Electrical cables
8. Bacteria

#### C. DESIGN CONDITIONS:

1. Provide the flow rate of system (m<sup>3</sup>/h).
2. Design as requirement of system.
3. Provide the Parameters of Standards of Waste Water Quality Control in your country.
4. These parameters need to treat are COD, BOD<sub>5</sub>, SS, pH, Oil & Fat, coliforms.

#### D. FEATURES, OPERATION & MAINTENANCE OF SYSTEM:

1. System is designed for operating automatically.
2. Power source requirement is three phases, 380 voltage, 50 Hz.
3. Easy to operation & maintenance.
4. Periodic discharge slurry basin.
5. Operators are 2 only.
6. Operation cost is low.
7. Low cost for investment of system.

#### E. APPLICATIONS:

1. For Villages, Town... citizen is more than 1000
2. For Industry factories, workers are more than 1000.
3. For the big apartments or a new city.

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F. ILLUSTRATION OF PROJECT DONE:



Sewage Waste Water Treatment Plant Capacity 5m<sup>3</sup>/h

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