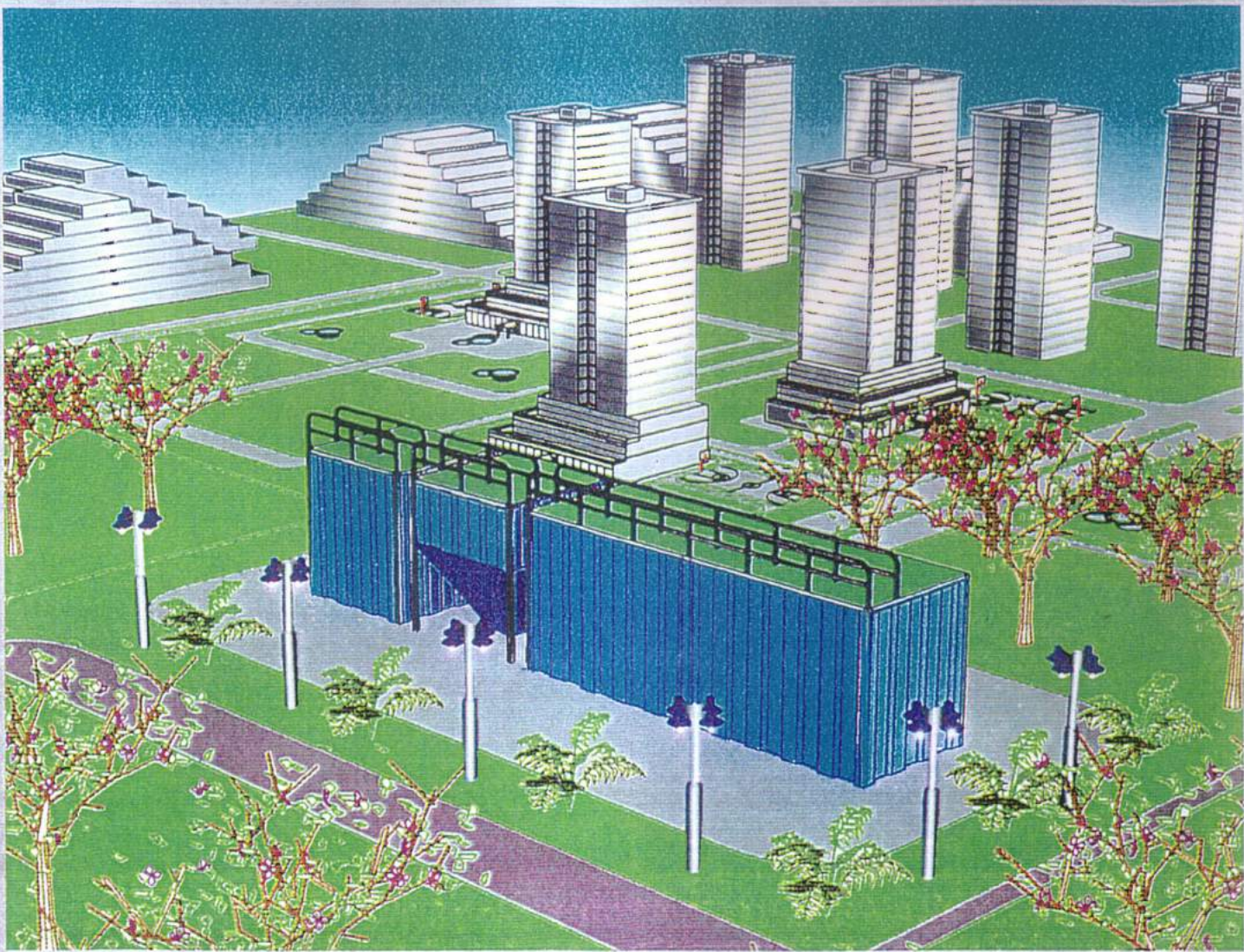


COMPACT SEWAGE TREATMENT PACKAGE



Building a Better Environment

A transportable waste water treatment system



Field of Applications

- * Apartment buildings
- * Small towns
- * Educational centers
- * Hotels
- * Tourism centers
- * Industries
- * Construction sites
- * Parks and beaches
- * Hospitals and health centers
- * Airports
- * Bus stations
- * Military camps

Process descriptions

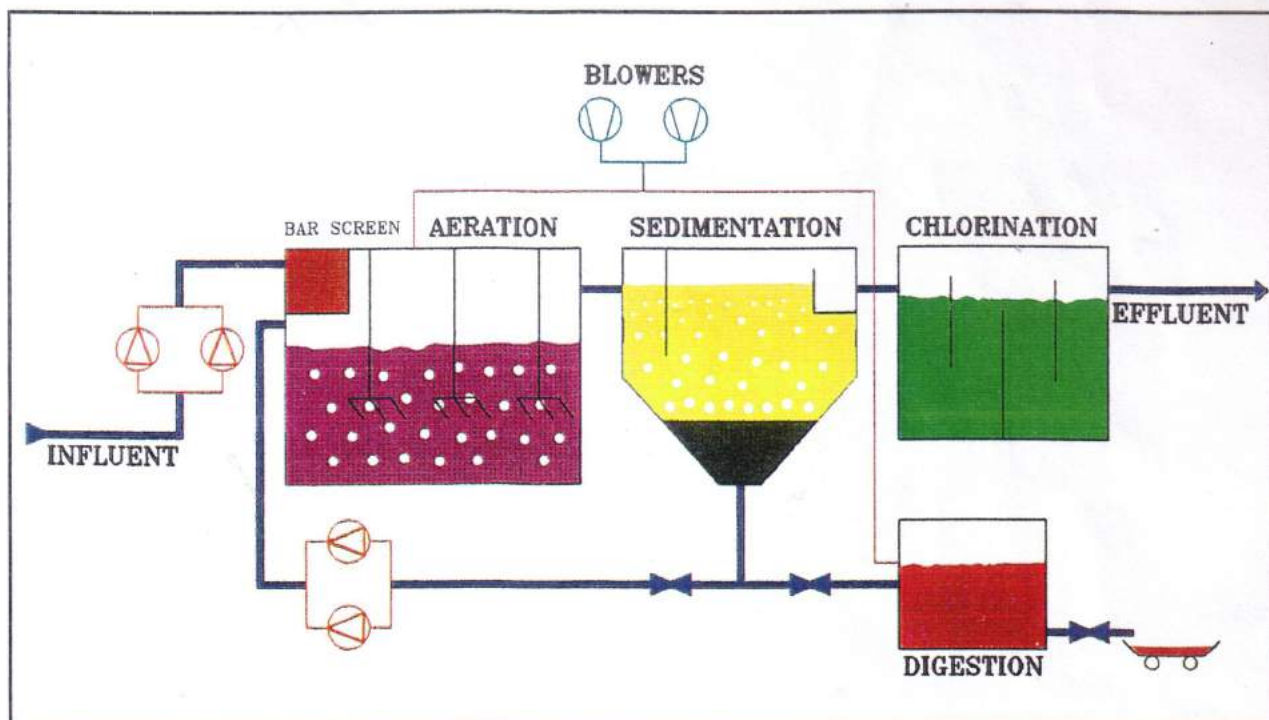
The treatment process used is known as "Extended Aeration".

Deep aeration is done with the use of roots type air blowers.

The process uses fine oxygen bubbles, generated by uncloggable nuzzles, to greatly accelerate the activity of natural bacteria which in turn reduces the sewage to an acceptably clear and odor - free effluent.

After a sufficient retention time, the sludge will be settled in the sedimentation tank.

Finally, effluent will be chlorinated with hypochlorite solution; there after can be used for irrigation, washing purposes and etc.



Technical Data

EQUIVALENT POPULATION	HYDRAULIC CAPACITY	MAX. FLOW	NORMAL FLOW	DETENTION TIME IN AERATION	B.O.D. INLET	F/M	DIMENSIONS
500*	100 M ³ /DAY	12.5 M ³ /H	6.5 M ³ /H	18 HR	30 KG/DAY	0.07	1500 X 280 X 330 CM

Design

Electromechanical parts used are carefully chosen from leading European manufacturers which ensure high quality, long-life operation.

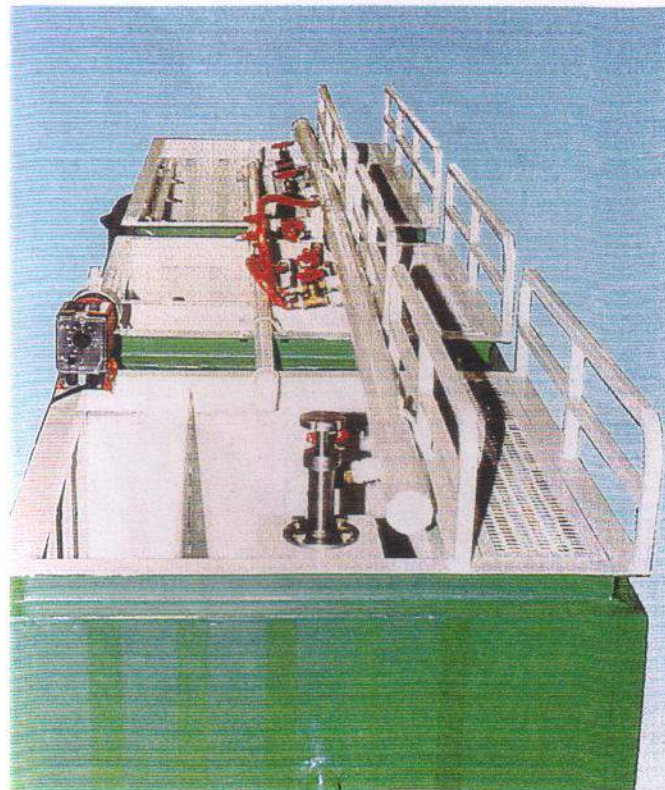
All other equipment are fabricated in accordance with the known international standards.

To collect the sludge, the bottom of sedimentation tank has a pyramid shape design.

To maintain a proper food - over - micro - organism (F/M) ratio, 50% to 200% of the sedimented sludge in the settling tank is pumped to the aeration tank by an adjustable flow type air lift pump.

An aerobic digestion unit has been considered to stabilize and concentrate the excess sludge.

Our standard sewage treatment units provide superior treatment quality, along with economical, easy and trouble - free operation.



* Parallel units can be used to increase capacity



Installed Packages in Bandar-e-Imam
Petrochemical plant - Iran

* 2 Units of 500 Pop.

Features

- * High efficiency
- * Low operation cost
- * Easy installation
- * Low capital investment
- * 100% reservation for equipment
- * Minimum spare parts
- * Optimized biological treatment condition
- * Minimum maintenance
- * Minimum moving mechanical parts
- * Fast installation in a rather small area
- * Effluent meets the requirements of W.H.O. standards
- * Two years guaranty