ÇevreTeknolojisi

İNŞAAT SANAYİ ve TİCARET LTD. ŞTİ.

www.cevreteknolojisi.com

CONTENT

ABOUT US

We stand out as an experienced specialist company that successfully implements sustainable processes in the sector.

As Çevre Teknolojisi İnşaat Sanayi ve Ticaret Ltd. Şti. we have established many facilities with unique technological solutions for contracting, project-design and sustainable processes in Environmental Technology application areas such as;

- Consultancy and Project
-Industrial and Domestic Wastewater Treatment
-Drinking and Potable Water Treatment
-Process Water Preparation
-Wastewater Recovery

Therefore, we reflect our engineering experience in the design and application of ecological, efficient and economical processes to technological solutions in accordance with the realities and refulations of our country.

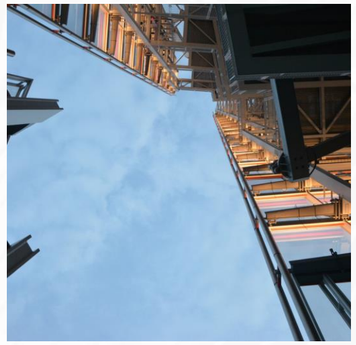
COMPACT SYSTEMS

BIOMODULE

BIOMODULE-MBR

BIOCOMPACT

BIOCOMPACT-MULTI



CSF MODULE

CFF MODULE

BIOMODULE

BIOMODULE is a variant of the activated sludge biological process which allows continuous inflow of raw wastewater and intermittently discharged influent.

Provides flow equalization, biological oxidation and sedimentation with decanting of supernatant in a single tank.

Process can be operated on any cycle duration based on the required degree of treatment. Each cycle consist of aeration, sedimentation and decantation phases. The aeration phase can be operated on an oxic/anoxic mode for the purpose of nitrification/denitrification and biological phosphorus removal. Oxygen is provided to the mixed liquor by the blowers and aeration system. The blowers are either positive displacement or centrifugal type. The most common aeration system utilizes coarse bubble diffusers. Jet aeration and fine bubble system have been used effectively as well. A master control center completely automates the process.

BIOMODULE-MBR

BIOMODULE-MBR combines biological water treatment with en extra membrane filtration section. Such combined treatment allows water to be reused both for domestic and industrial use.

Uses submerged or internal Membrane BioReactors are flatsheet high flux membrane systems. They are based on the perfect combination of special developed UF-membrane modules with the established BioModül-MBR activated sludge process.

Is compiled in a very compact, modular and custom-built plant.

Ideal solution for upgrade and improvement of existing treatment facilities. Treatment of highly polluted industrial wastewater and leachate for safe discharge according to stringent standards.

Effluent can be used in irrigation, also with the addition of a Reverse Osmosis option; the treated water can be recycled for industrial and potable use.

High nitrogen removals due to the combination of high biomass concentrations and multistaged reactor configuration with alternated anoxic and aerated zones.

Small plant footprint due to higher biomass concentration in the bioreactor

Lower excess sludge production compared to conventional systems.

Do not exist odour.

Is very simple to operate and easy maintenance.

Is designed for full automatic working.

BIOCOMPACT

BIOCOMPACT is applied for the biological treatment of wastewaters from various sources, municipal as well as industrial.

In which two tanks operate alternately, exploits this feature, so that its operation is particularly simple and reliable, making it very viable.

Consists of two identical tanks and each tank is equipped with an aeration system (either fine bubble aeration or surface aeration). The outlet from tanks each of which have overflow weirs. From the bottom of the tanks, two valves discharge the excess sludge. The raw wastewater enters the tanks with two pneumatic valves which can direct the flow to be treated to tanks. Outlet two valves can cut off the flow at the outlet from the tanks. The two tanks communicate either by a weir or a pipe.

With biological nutrient removal can meet very stringent effluent requirements for BOD, nitrogen and phosphorus.

Has the ideal low investment solutions for the small scale applications (small community and industry).

Systems are particularly suitable for installations intended to be subsequently enlarged.

BIOCOMPACT-MULTI

BIOCOMPACT-MULTI is a cyclic activated sludge system for the treatment of industrial and municipal wa tewater.

Is a three-compartment activated sludge reactor with an optimal and cost-effective combination of the two basic process, aeration and sludge settling.

Is combining the advantages of conventional activated sludge process and sequencing batch reactor technology. Like the conventional system, its reactor volume is fixed and the tank level is always constant. Influent flow is continuous and so is the effluent discharge.

With biological nutrient removal can meet very stringent effluent requirements for BOD, nitrogen and phosphorus.

Consists of three reactors, each reactor is equipped with an aeration system (either surface or fine bubble aeration), whilst the outer reactors are also provided with overflow weirs for effluent dis harge. This means that each of the outer reactors can serve as an aeration and sedimentation tank. Wastewater can be fed into each reactor. Three reactors are hydraulically linked by an opening in the common connecting walls Excess sludge which can be removed from an outlet in each outer reactor.

Can be used for the introduction of enhanced biological nutrient removal. Complex and more concentrated wastewaters or stringent effluent quality requires often treatment in different steps. The multistage.

Configurations offer in this respect the perfect solution.

CSF MODULE

CSF-MODULE is based on the principle of solids contact unit which create convey a larger mass of sludge into the flocculation area. This unit involves the recirculation of sludge.

Is an external recirculation unit based on the lamellae settling principle. It is a fast, compact and adaptable unit, unaffected by variations in raw water composition and flow rate. The unit reduce the volume of settled sludge, which can than be dewatered without further thickening.

Has three main components: flocculator, presettler-thickener, lamella settling. Flocculator provides rapid flocculation with mixing by an axial-flow impeller that recirculates the flow within the reactor and plug-flow conditions prevail to allow slow flocculation. In the Presettler-thickener zone most of the flock settles. The thickened sludge is drawn off through a pipe from the central sludge hopper. Part of the sludge is recirculated to the raw water inlet pipe, thereby ensuring optimum sludge concentration in the reactor at all times. The excess sludge is drained by gravity or pumped away. The sludge is thick enough to be transpo ted to the dewatering system without any additional thickening. Lamellae settling removes the residual flock. The settled water is recovered by a system of collection troughs. The sludge is collected by gravity extracted in and recycled to the head of the reactor.

Effluent at a fairly, constant quality sand filtration was added to this unit. Filtration is brought in to raise the quality of the final effluent and to keep the quality of this effluent as constant as possible.

CFF MODULE

CFF-MODULE system removes pollutants from wastewater through chemical coagulation and flocculation in combination with efficient dissolved air flotation for high rate clarification.

Package is a physical-chemical treatment system. The raw water which may have already undergone chemical flocculation in a flocculator, is injected into a mixed in line where it is placed in contact with air saturated water that has passed through a pressure-release value, resulting in the formation of small air bubbles that attach to the solid particles. Being of lower specific gravity than the water, the particle/bubble composite is separated out in zone and collected at the surface. The resulting sludge is recovered by a surface skimmer and channeled out through a trough. The water separated from the particles is recovered under a scum baffle before it is collected and drained off in. Pressurized water is obtained by recycle pressurization; part of the treated water is recycled and brought into contact with air in a saturation vessel. Solids form bigger flocks settles on the floor which they are discharged by gravity or by means of a special delivery pump. To keep the

Effluent at a fairly, constant quality sand filtration was added to this unit. Filtration was brought into raise the quality of the final effluent and to keep the quality of this effluent as constant as possible.

OUR WORKING ZONE

We make cost-effective and sustainable design and engineering studies and application projects of industrial & universal wastewater treatment plants, raw water treatment & utilization plants and drinking water treatment plants.

CONSULTANCY,PROJECT

We are establishing a treatment plant in the country and abroad, including construction, mechanical, electrical automation, commissionning & testing and operation.

COMMITMENT

We are establishing future-oriented, modular structures, suitable for development, particullary in wastewater recycling and water industry facilities.

SUSTAINABILITY

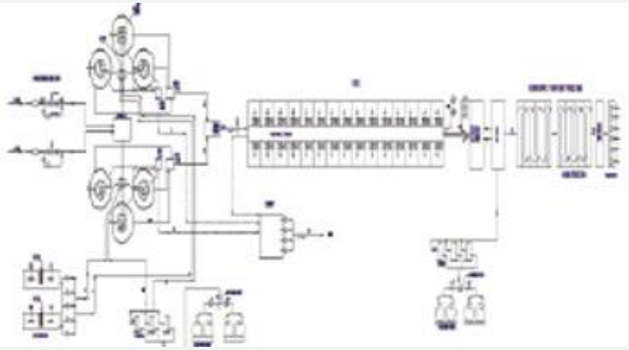
CONSULTANCY & PROJECT

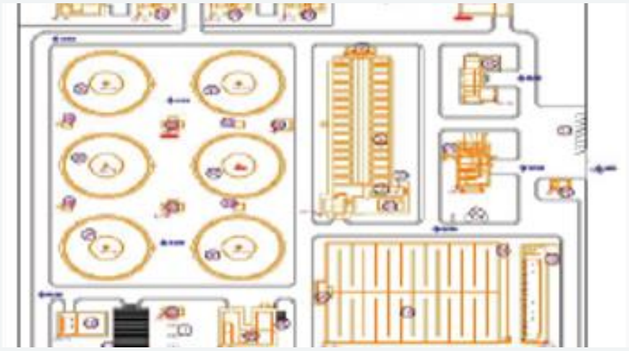
As Çevre Teknolojisi İnşaat Sanayi ve Ticaret Ltd. Şti. we generally carry out process projects for private sector institutions for the treatment and reuse of industrial wastewater.

We have been continuing our project work abroad since 2002. In particular, we design and implement wastewater treatment, drinking water supply, treatment, rain water, sewage and pumping stations

AL- SAMARRA
WATER TREATMENT PLANT

GOVERNMENT OF IRAQ
AL-SAMARRA WATER TREATMENT PLANT
2012-2013





Service Scope

Process :

Water Treatment Plant

Units:

• Promotion Station

•Fast mixing (Pre-Chlorination)

Flocculation

• Clarification

•Sand Filter •Disinfection

•Storage

Raw Water Properties

Turbidity: 60 mg/ℓ

Conductivity : 367 µS/ cm

Chloride: 15 mg/ℓ Alkalinity: 140 mg/ℓ

Total Hardness: 180 mg/ℓ

Calcium: 40 mg/ℓ

Magnesium: 19 mg/ℓ

Total Dissolved Solids: 260 mg/ ℓ

Total Suspended Solids : 150 mg/ ℓ

Temperature : 24.6 ºC

pH : 7.3

Technicial Specifications

Flow rate: 6.000 m3 /hour

Purified Water Properties

Turbidity : <1 mg/ℓ

Conductivity : < 1000 µS/ cm

Chloride : < 200 mg/ℓ

Alkalinity : < 200 mg/ℓ

Total Hardness : < 500 mg/ℓ

Calcium : Magnesium : 150 mg/ℓ

Total Dissolved Solids: 500 mg/ ℓ

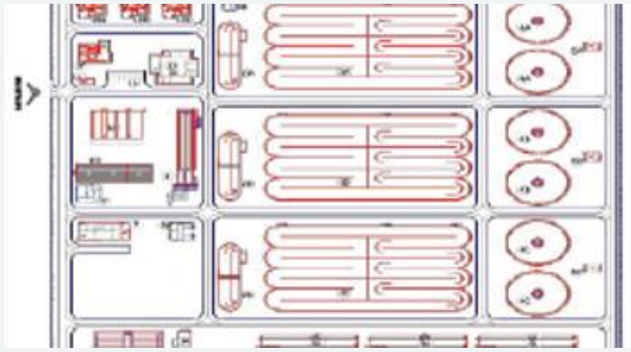
Total Suspended Solids:

Temperature :

pH : 6.5-8.5

AL- SAMARRA
WASTEWATER TREATMENT PLANT

GOVERNMENT OF IRAQ AL-SAMARRA
WASTEWATER TREATMENT PLANT
2012-2013



Service Scope

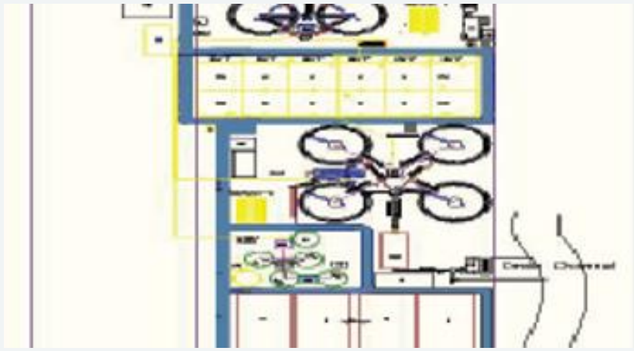
Construction of Sewerage Projects
Rainwater Network Project Construction
Design of Pumping Stations •Wastewater Treatment Plant Project Design
Technical Reports
Standards
Technical and Economic Feasibility Studies

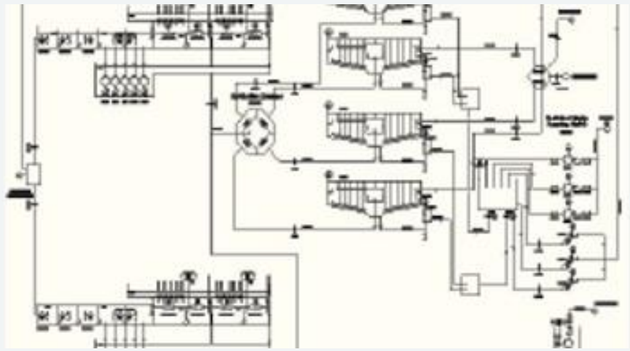
Technicial Specifications

Flow rate: 78768 m3 /day
Equivalent Population (2043): 330.000 people

AL-NASIRIYAH
WASTEWATER TREATMENT

GOVERNMENT OF IRAQ
AL-NASIRIYAH WASTEWATER TREATMENT PLANT PROJECT WORK
2009





Service Scope

Process :

- Mechanical Treatment
- Biological Treatment (AKR Unit)
- Advanced Filtration
- Sludge Dewatering Raw Wastewater Properties

BOI5 : 360 mg/ℓ

COD: 460 mg/ℓ

AKM : 360 mg/ℓ

TKN: 40 mg/ℓ

NH4-N : 30 mg/ℓ

Organic Nitrogen: 10 mg/ℓ

TP : 8 mg/ℓ

Technicial Specifications

Equivalent Population: 240,000 people

Qort: 60.000 m3 /day

Qmax : 100,000 m3 /day

Treated Wastewater Properties

BOI5: 20 mg/ℓ

COD : 90 mg/ℓ

AKM : 60 mg/ℓ

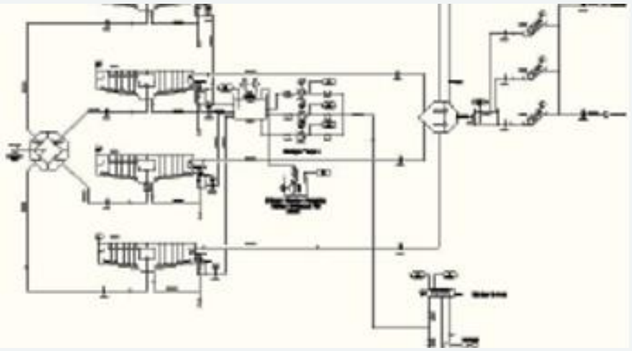
TN: 10 mg/ℓ

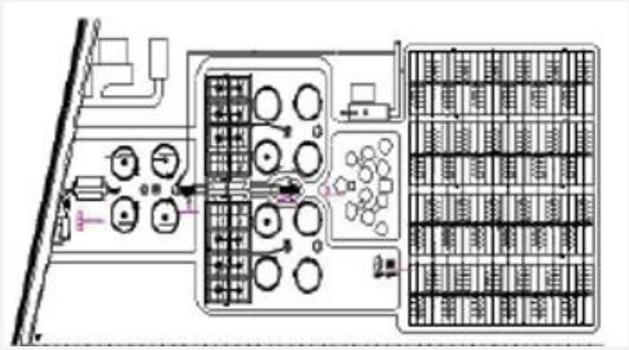
TP : 1 mg/ℓ

KERBELA

WASTEWATER TREATMENT

GOVERNMENT OF IRAQ
KERBELA WASTEWATER TREATMENT
PLANT PROJECT WORK
2009





Service Scope

Process : - Mechanical Treatment
- Biological Treatment (AKR Unit)
- Advanced Filtration
- Sludge Dewatering

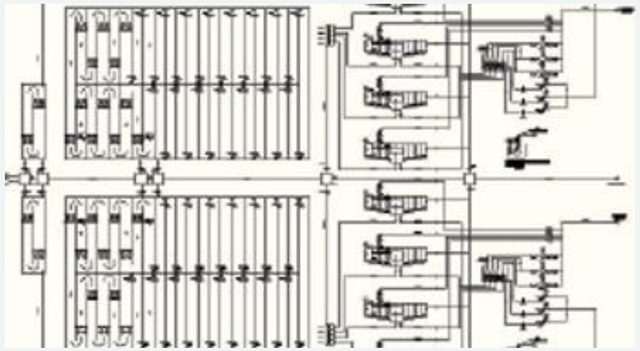
Technicial Specifications

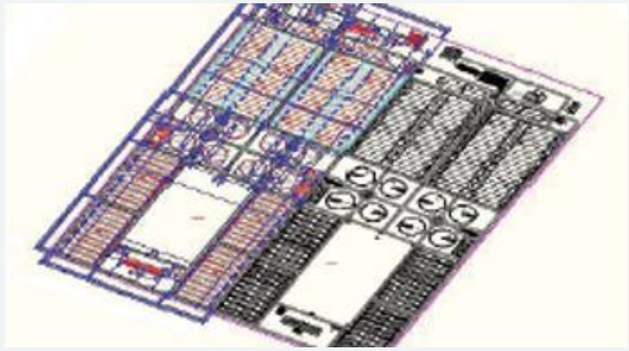
Equivalent Population: 400,000 people
Flow
Qort: 100,000 m3 /day
Qmax : 175.000 m3 /day
Raw Wastewater Properties
BOI5: 400 mg/ℓ
COD : 600 mg/ℓ
AKM: 450 mg/ℓ
TKN: 40 mg/ℓ
NH4-N : 30 mg/ℓ
Organic Nitrogen: 10 mg/ℓ
TP : 8 mg/ℓ
Treated Wastewater Properties
BOI5: 20 mg/ℓ
COD : 125 mg/ℓ
AKM : 30 mg/ℓ
TN: 25 mg/ℓ
TP : 5.5 mg/ℓ

BASRA

WASTEWATER TREATMENT PLANT

GOVERNMENT OF IRAQ
BASRA WASTEWATER TREATMENT PLANT PROJECT WORK
2009





Service Scope

Process :

- Mechanical Treatment
- Biological Treatment
- Sludge Treatment and Dewatering
- Odor Control

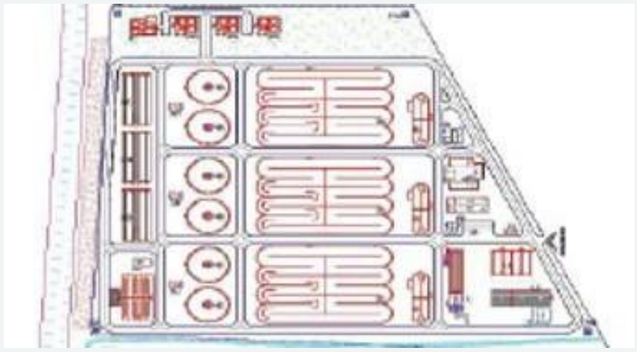
Technicial Specifications

Equivalent Population: 600,000 people
Flow,
Qort : 150.000 m3 /day
Qmax : 240.000 m3 /day
Raw Wastewater Properties
BOI5: 400 mg/ℓ
COD : 600 mg/ℓ
AKM: 450 mg/ℓ T
CN: 50 mg/ℓ
NH4-N : 30 mg/ℓ
Organic Nitrogen: 20 mg/ℓ
TP : 15 mg/ℓ

Treated Wastewater Properties
BOI5: 20 mg/ℓ
COD : 100 mg/ℓ
AKM : 30 mg/ℓ
TN: 10 mg/ℓ
TP : 2 mg/ℓ

ABU GHRAIB
WASTEWATER TREATMENT PLANT

GOVERNMENT OF IRAQ ABU GHRAIB
WASTEWATER TREATMENT PLANT
2012-2013



Service Scope

Construction of Sewerage Projects
Construction of Stormwater Network Projects,
Design of Pumping Centers
Wastewater Treatment Plant Project
Construction
Ground Works
Technical Reports
standards
Technical and Economic Feasibility

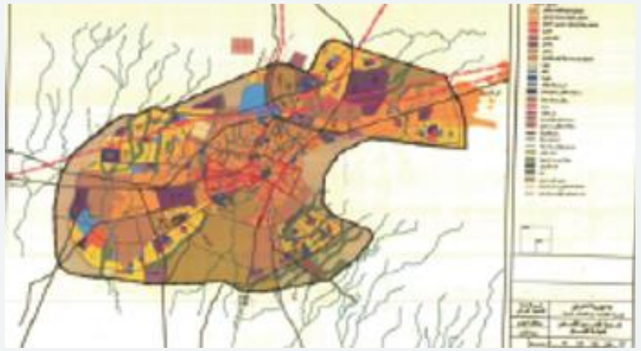
Technicial Specifications

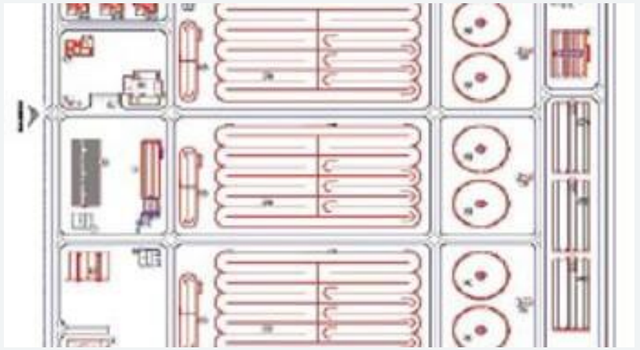
Flow rate: 61670 m3 /day

Equivalent Population (2043): 246,681 people

TAL AFAR
WASTEWATER TREATMENT

GOVERNMENT OF IRAQ TAL AFAR
WASTEWATER TREATMENT PLANT
2012-2013





Service Scope

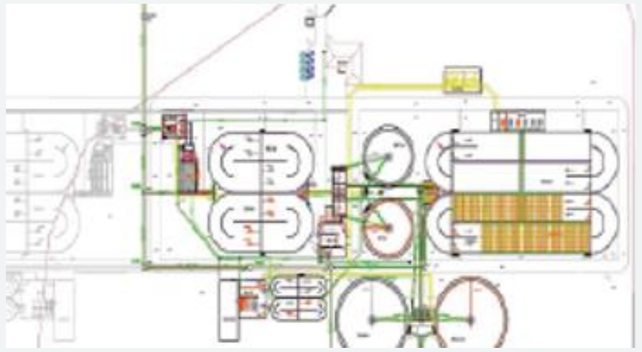
Construction of Sewerage Projects
Rainwater Network Project Construction
Designing Promotion Centers
Wastewater Treatment Plant Project Construction
Technical Reports
Standards
Technical and Economic Feasibility Studies

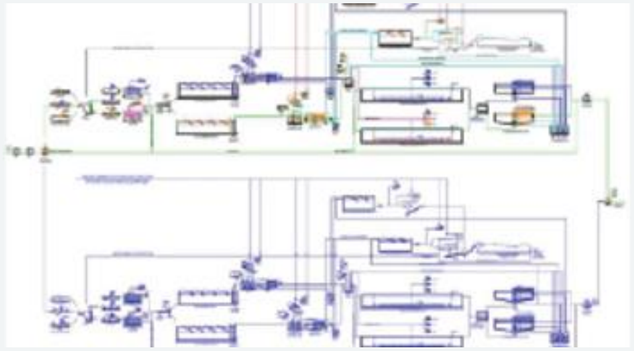
Technicial Specifications

Flow rate: 99823 m3 /day
Equivalent Population: 399,290 people

IZMIR METROPOLITAN
WASTEWATER TREATMENT PLANT

IZMIR METROPOLITAN MUNICIPALITY KEMALPAŞA OSB WASTEWATER TREATMENT PLANT PROJECT CONSULTANCY WORK 2009-2010





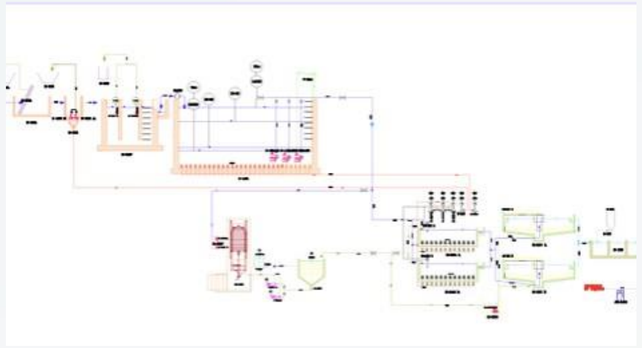
Service Scope
Process :
- Mechanical Treatment
- Chemical Treatment
- Biological Treatment
- Sludge Dewatering

Technicial Specifications
Equivalent Population: 455,000 people
Flow Qort: 20000 m 3 /day
Raw Wastewater Properties
BOI5 : 1250 mg/ℓ
COD : 2500 mg/ℓ
AKM : 600 mg/ℓ
NH4-N : 12 mg/ℓ
TP : 6 mg/ℓ
Treated Wastewater Properties
COD : 300 mg/ℓ
AKM : 100 mg/ℓ
TKN: 15 mg/ℓ
TP : 1 mg/ℓ

TRABZON ARSIN OSB

WASTEWATER TREATMENT PLANT

ARSIN / TRABZON ORGANIZED INDUSTRIAL ZONE
ENTERPRISING ORGANIZATION PRESIDENCY
WASTEWATER TREATMENT PLANT PROJECT
1996



Service Scope:

Process:

Physical Treatment + Chemical Treatment + Biological Treatment

-Physical Refinement
-Grid
-Sand Trap
-Chemical Treatment
-Neutralization
-Coagulation
-flocculation
-Sedimentation Pool
-Biological Treatment
-Aeration Pools
-Sedimentation Pool
-Sludge Dewatering system

Technicial Specifications:

Wastewater Flow: 1000 + 1000 m3/day
Equivalent Population:
Qort:
Qmax :

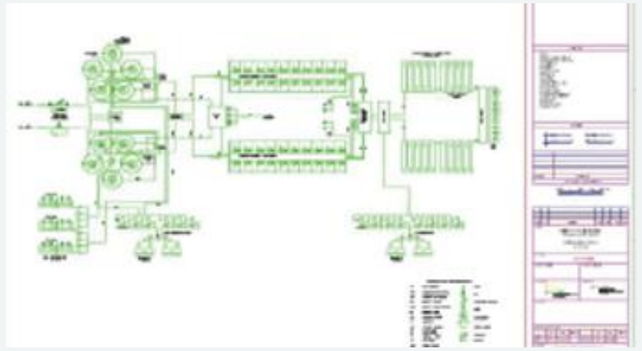
COMMITMENT

We are establishing treatment plants including construction, mechanical, electrical-automation with new technology and process techniques.

Our turnkey works;
Industrial Wastewater Treatment Plants
Drinking and Potable Water Treatment Plants
Recovery Bio Membrane Wastewater Treatment Plants
Domestic Wastewater Treatment Plants

AL-KUT
WATER TREATMENT PLANT

GOVERNMENT OF IRAQ AL-KUT WATER TREATMENT PLANT 2012



Service Scope

Process :

Water Treatment Plant

Units:

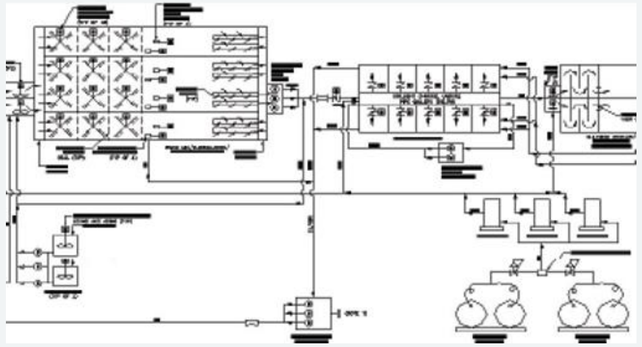
- Promotion Station
- Fast mixing (Pre-Chlorination)
- Floculation
- Clarification
- Sand Filter
- Disinfection
- Storage

Technicial Specifications

Flow rate: 220.000 m3 /day

SADR CITY
DRINKING WATER TREATMENT PLANT

SADR CITY/IRAQ
DRINKING WATER TREATMENT PLANT
2005/2006



Service Scope

Process :

Drinking Water Treatment Plant Process

Units :

- Pre-Chlorination
- Chemical Coagulation-Flocculation

Clarifier

- Filtration
- Son Chlorination
- Storage
- Sludge Storing System

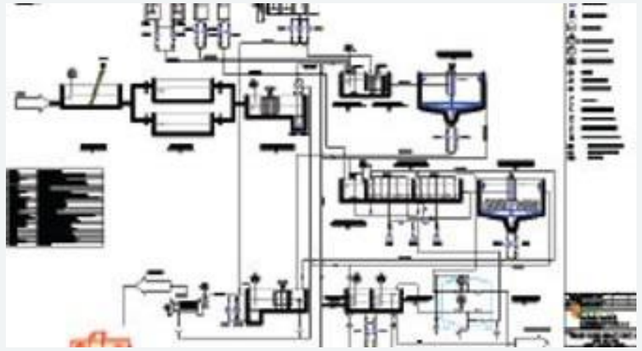
Technicial Specifications

Capacity : 100,000 m3 /day

SERANIT

WASTEWATER TREATMENT PLANT

SERANIT GRANITE CERAMIC INDUSTRY
ESKISEHIR SERAMIK SAN.
WASTEWATER TREATMENT PLANT
2011



Service Scope

Process:

Physical Treatment,
Chemical Treatment,
Biological Treatment, Filtration,
Sludge Thickening & Dewatering

Units:

Grid Channel
- Sand Holding Basin
- Balancing/Promotion Basin
- Coagulation

-Flocculation Chemical Precipitation
-Neutralization

- Ventilation Basin
- Biological Sedimentation Basin
- Filter Feeding Basin
- Pressurized Sand Filter
- Treated Wastewater Basin
- Sludge Condensation Tanks
- Sludge Dewatering

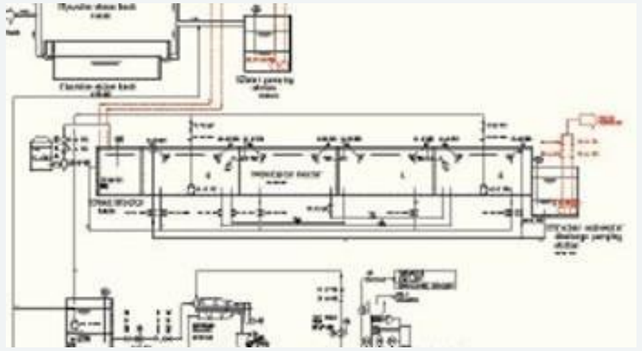
Technicial Specifications

Wastewater Flow: 1350 m3/day
Wastewater Properties:
COD: 450 mg/l
AKM: 28000 mg/l
Lead(Pb): <0.01
Zinc(Zn): 4,5
Cadmium(Cd): <0.2
Ph : 7.5-8.2

Treated Wastewater
COD: 80 mg/l
AKM: 100 mg/l
Lead(Pb): 1
Zinc(Zn): 3
Cadmium(Cd): 0.1
Ph : 6-9

T&C GARMENT
WASTEWATER TREATMENT PLANT

T&C GARMENTS / EGYPT
TEXTILE INDUSTRY
WASTEWATER TREATMENT PLANT
2010



Service Scope
Process :
Activated Sludge Reactor

Units :
- Physical Treatment
  - Pumice Holding Basin
  - Neutralization Basin
- Biological Treatment
  - Aeration / Sedimentation Basin
- Sludge Treatment and Dewatering
  - Sludge Basin
  - Sludge Dewatering

Technicial Specifications
Wastewater Flow: 3000 m3 /day
COD :1200 mg/l
BOI5: 600 mg/l
SS : 350 mg/l (after pumice stone pool
Total Chromium: 1 mg/l
Phenol: 0.5 mg/l
ZSF : 3
pH : 5-6
Temperature : 70 ºC

Treated Wastewater:
BOI5: 30 mg/l
KOI: Monitor Only
SD : 30 mg/l
Pb : 0.1 mg/l
Cu: 0.25 mg/l
Hg: 0.01 mg/l
Zn: 1 mg/l
Cd: 0.01 mg/l
pH: : 6-9

ASTAY / TAYPA
WASTEWATER TREATMENT PLANT

ASTAY / TAYPA, KRALIJEVO / SERBIA
TEXTILE INDUSTRY-JEAN INDUSTRY
WASTEWATER TREATMENT PLANT
2019-2020

Service Scope;
Process :
Activated Sludge Reactor
Units:
-Physical Refinement
-Pumice Stone Holding Basin
-Neutralization Basin
-Biological Treatment
-Aeration/Sedimentation Basin
-Sludge Treatment and Dewatering
-Mud Basin

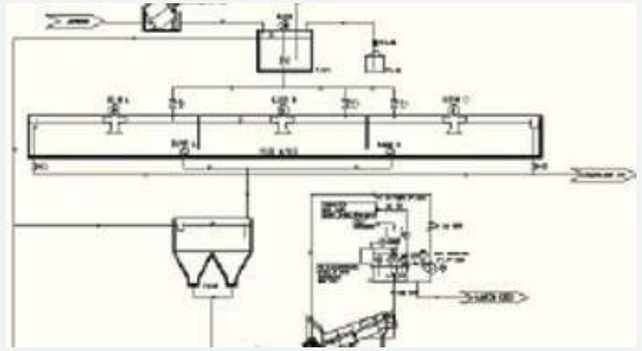
Technicial Specifications
Wastewater Flow: 2000 m3/day
COD:1200 mg/I
BOI5: 600 mg/l
AKM : 350 mg/l (After Pumice Pool)
Total Chromium: 1 mg/l
Phenol: 0.5 mg/l
ZSF : 3
pH : 5-6
Temperature : 70 C

Treated Wastewater Properties
KOI: Monitoring Only
BOI5: 30 mg/l
Pb : _
C : _
Hg : _
Zn : _
CD : _
pH : 7-8

YILTEKS

WASTEWATER TREATMENT PLANT

YILTEKS TEXTILE INC. TEXTILE INDUSTRY
CORLU/TEKIRDAG/TURKEY
WASTEWATER TREATMENT PLANT
2003/2004



Service Scope
Process :

Pretreatment,
Neutralization,
Biological Treatment,
Chemical Treatment,
Sludge Thickening & Dewatering
Units :

- Screen Channel
- Pre-Sedimentation Basin
- Neutralization Basin
- Aeration Basin
- Son Sedimentation Basin
- Pump Basin
- Coagulation & Flocculation Tank
- Chemical Sedimentation Basin
- Sludge Thickening
- Sludge Dewatering

Technicial Specifications

Equivalent Population: 47,000 people
Organic Loading: 2800kgBOI5/day
Flow: 4000 m3 /day

Treated Wastewater Properties:
BOI5: 90 mg/l
COD: 400 mg/l
AKM: 140 mg/l

KONACIK

WASTEWATER TREATMENT PLANT

KONACIK BELEDİYESİ Sif Eng. Ltd. Sti.
BODRUM/MUĞLA/TURKEY
WASTEWATER TREATMENT/RECYCLING PLANT
2008

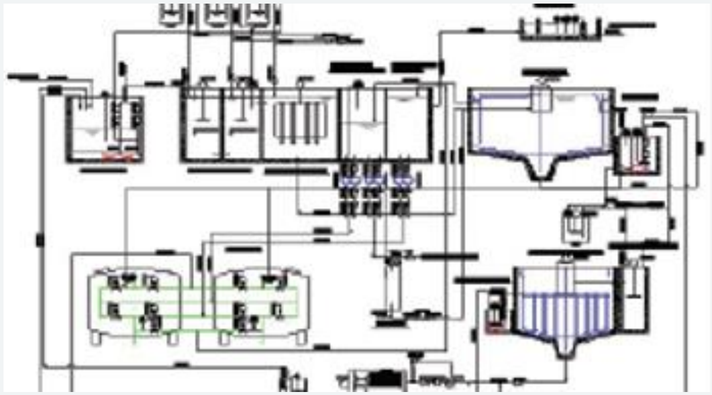
Service Scope
Process :
Membrane Bioreactor with Ultrafiltration

Units :
- Equalization and Lifting Basin
- Anoxic Basin
- Aeration Basin
- Membrane Bioreactor Basin
- Mud Basin
- Sludge Stabilization and Thickening Basin
- Sludge Dewatering (Decanter Centrifuge)
- Treated Wastewater Basin

Technicial Specifications
Equivalent Population: 10000
Equivalent Population (Current) + 15000
Equivalent Population (Future)
Organic Loading : 600 kg
BOI5/day
Wastewater Flow: 1500 m3 /day
Treated Wastewater Properties
BOI5 : <10 mg/l
COD: 25 mg/l
AKM : <10 mg/l

PAŞABAHÇE
WASTEWATER TREATMENT PLANT

PAŞABAHCE GLASS INDUSTRY AND TRADE. Inc.
CORLU/TEKIRDAG/TURKEY
WASTEWATER TREATMENT PLANT
2007



Service Scope

Process:

Pretreatment,
Chemical Treatment,
filtration,
Sludge Thickening & Dewatering Units:

- Equalization Pool
- Coagulation-Floculation Pool
- Flotation Pool
- Recirculation Pool
- Filtration
- Sludge Condensation Pool
- Sludge Dewatering

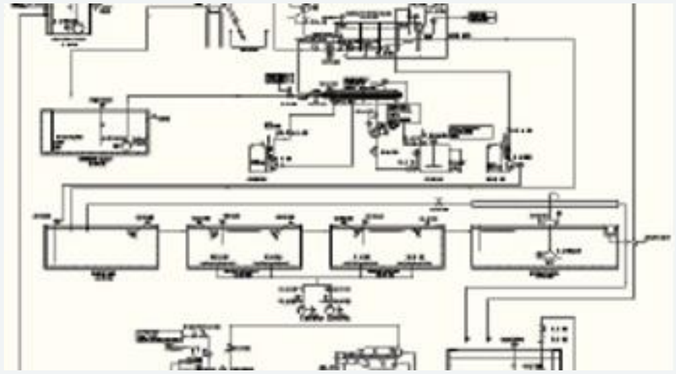
Technicial Specifications

Equivalent Population: 80,000 people
Wastewater Properties:
COD: 3000-4000 mg/l
Oil & Grease: 750-850 mg/l
Treated Wastewater Properties:
COD: 160 mg/l
AKM: 10 mg/l
Oil & Grease: 50 mg/l pH: 6-9
Wastewater Flow: 2000 m3 /day

KAANLAR FOOD IND.

WASTEWATER TREATMENT PLANT

KAANLAR FOOD INDUSTRY AND TRADE. Inc.
MALKARA/TEKIRDAG/TURKEY
WASTEWATER TREATMENT PLANT
2010



Service Scope
Process :
Chemical + Biological Wastewater Treatment Plant

Units :
- Equalization Basin
- Static Screen
- Chemical Preparation and Dosing System
- Chemical Coagulation-Flocculation and
- Dissolved Air Flotation System
- Selector Basin
- Biological Reactor
- Sludge Thickening Basin
- Sludge Dewatering unit (Centrifuge Decanter)

Technicial Specifications
Equivalent Population: 50,000 people
COD: 7000-14000 mg/l
Flow: 1000 m3 /day

Treated Wastewater
COD : < 160 mg/l
Oil & Grease : < 30
pH : 6-9

IZI SUT A.Ş
WASTEWATER TREATMENT PLANT

IZI SÜT A.Ş
AKSEHIR/KONYA/TURKEY
INDUSTRIAL WASTEWATER TREATMENT PLANT
2019

Service Scope
Process :

Physical Treatment Units

- Static Screen
- Flotation
- Equalization Basin

Biological Treatment Units

- Biological Reactors

Sludge Dewatering Units

- Sludge Thickening Basin
- Filter Press
- Polymer Dosing Unit

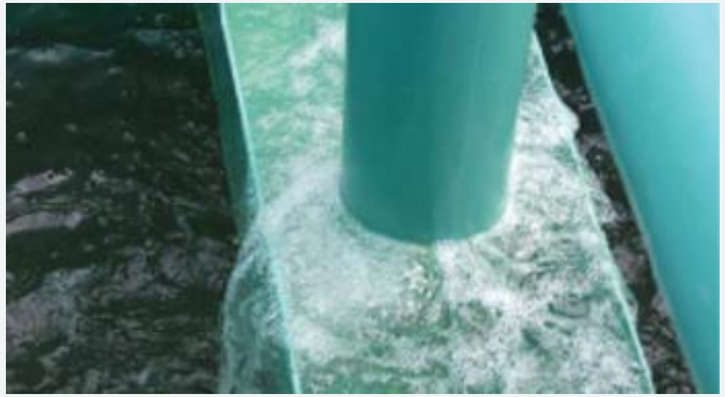
Technicial Specifications

Wastewater flow=1000m3/day
KOI: 5000 mg/l
Oil & Grease: 500 mg/l
AKM: 500 mg/l
pH: -6-8

Treated Wastewater
KOI : < 160 mg/l
Oil & Grease : < 30
pH : 6-9

BMI
DRINKING WATER TREATMENT PLANT

BMI SAATLİ/BAKU/AZERBAIJAN
DRINKING WATER TREATMENT PLANT
2008



Service Scope
Process :
Process Water Preparation Drinking Water Treatment Plant Process Units :

- Pre-Chlorination
- Chemical Coagulation-Flocculation
- Clarifier
- Filtration
- Final Chlorination
- Storage
- Mud Lagoon

Technicial Specifications
Capacity : 400/1000 m3 /day
Raw water :
Pond Purified Water
pH : 7.0-8.5
Color : < 5 Pt-Co
Scale Blur : 0.4
NTU TFe: 0.05 mg/ℓ
TMn: 0.02 mg/ℓ
TAL : < 0.15
Coliform Organism : ---- Free Balance
Chlorine: 0.1.-0.5 mg/ℓ

TAV & SERA
WASTEWATER TREATMENT PLANT

TAV & SERA
ANTALYA AIRPORT NORTH
WASTEWATER TREATMENT PLANT
2024

Service Scope;
Process :
Activated Sludge Reactor
Units:

-Sludge Treatment and Dewatering

Technicial Specifications

Wastewater Flow: 20 m3/day
Q: 120 m3/day
COD:3000 mg/I
BOI5: 1700 mg/l
AKM : 350 mg/l (After Pumice Pool)
PO4: 30 mg/l
Oil & gress : 100 mg/l
pH : 7-8.5

Treated Wastewater:
BOI5: 1020 mg/l
KOI: 1800 mg/l
AKM: 35 mg/l
PO4: 3mg/l
Oil & gress : 5 mg/l
pH: : 7.5

TAV & SERA
WASTEWATER TREATMENT PLANT

TAV & SERA
ANTALYA AIRPORT SOUTH
WASTEWATER TREATMENT PLANT
2024

Service Scope;
Process :

-DAF system
-Biological Treatment
-Sludge Treatment and Dewatering

Technicial Specifications

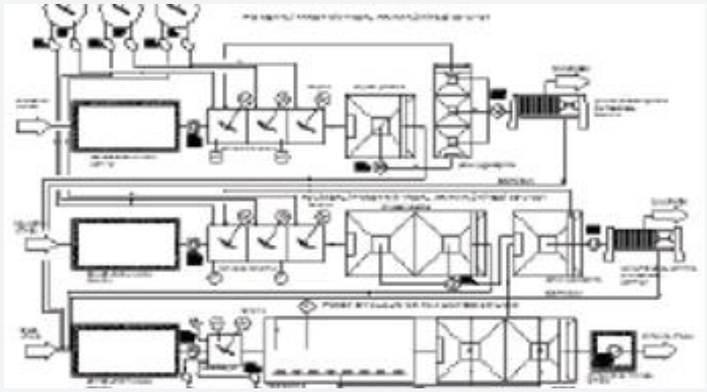
Wastewater Flow: 20 m3/day
Q: 120 m3/day
COD:3000 mg/I
BOI5: 1700 mg/l
AKM : 350 mg/l (After Pumice Pool)
PO4: 30 mg/l
Oil & gress : 100 mg/l
pH : 7-8.5

Treated Wastewater:
BOI5: 1020 mg/l
KOI: 1800 mg/l
AKM: 35 mg/l
PO4: 3mg/l
Oil & gress : 5 mg/l
pH: : 7.5

KEMITEKS

WASTEWATER TREATMENT PLANT

KEMİTEKS A.Ş.
HADIMKOY/ISTANBUL/TURKEY
WASTEWATER TREATMENT PLANT
2009



Service Scope Process:
Chemical + Biological Wastewater Treatment Plant Sludge Densification & Sludge Dewatering

Units :
- Equalization Basin
- Chemical Preparation and Dosing System
- Chemical Treatment
- Biological Treatment
- Sludge Dewatering (Filtrepress)

Technicial Specifications
Wastewater Properties: Chemical Treatment
- Polymer Unit
Flow: 50 m3 /day
COD : 30.000 mg / l
-Pigment Unit
Flow: 15 m3 /day
COD: 17.000 mg / l

Treated Wastewater Properties
COD: 150 mg/l
AKM : <100 mg/

SUSTAINABILITY

We design treatment plants for wastewater recovery/use purposes and compatible with sustainable processes.

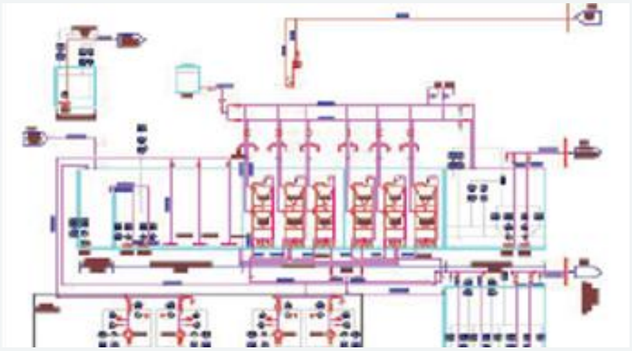
We use new technologies in our modular designs that take into account minimum space, energy and operating costs and are suitable for development.

We continue our R&D studies for the recovery of industrial wastewater and the development of the water economy of the factories in cooperation with companies in different branches and the University.

KONACIK

WASTEWATER TREATMENT PLANT

KONACIK BELEDİYESİ Sif Eng. Ltd. Sti.
BODRUM/MUĞLA/TURKEY
WASTEWATER TREATMENT/RECYCLING PLANT
2008



Service Scope
Process :
Membrane Bioreactor with Ultrafiltration

Units :
- Equalization and Lifting Basin
- Anoxic Basin
- Aeration Basin
- Membrane Bioreactor Basin
- Mud Basin
- Sludge Stabilization and Thickening Basin
- Sludge Dewatering (Decanter Centrifuge)
- Treated Wastewater Basin

Technicial Specifications
Equivalent Population: 10000
Equivalent Population (Current) + 15000
Equivalent Population (Future)
Organic Loading : 600 kg
BOI5/day
Wastewater Flow: 1500 m3 /day
Treated Wastewater Properties
BOI5 : <10 mg/l
COD: 25 mg/l
AKM : <10 mg/l

TAYEKS

WASHING AND FABRIC DYEING PROCESS

TAYEKS AS.
TEXTILE INDUSTRY-JEAN INDUSTRY
WASHING AND FABRIC DYEING PROCESS
2021

Service Scope;

Process :
Regain
Units:
-Azud
-Ultrafiltration
-Reverse Osmosis

Technicial Specifications
Wastewater Flow: 1200 m3/day
COD: 100 mg/I
BOI5: 45 mg/l
AKM : 50 mg/l
pH : 7.4
Temperature : 30 C

Treated Wastewater Properties:
Recovery Water Flow: 780 m3/day
COI : 0 mg/l
BOI5: 0 mg/l
Pb : _
C : _
Hg : _
Zn : _
CD : _
pH : 6.5-7

YILTEKS
WATER RECOVERY PLANT

YILTEKS AS.
TEXTILE INDUSTRY-DENIM WASHING INDUSTRY
WATER RECOVERY PLANT
2022

Service Scope;

Process :
Regain
Units:
-Micro Filtration
-Ultrafiltration
-Reverse Osmosis

Technicial Specifications
Wastewater Flow: 1200 m3/day
COD: 100 mg/I
BOI5 : 45 _cc781905-5cde-3194_bbcf58d-
AKM : 50 mg/l_cc781905-5cde-3194_badcf58d_
pH : 7.4
Temperature : 30 C

Treated Wastewater Properties:
Recovery Water Flow: 780 m3/day
COD : 0 mg/l
BOI5: 0 mg/l
Pb : _
C : _
Hg : _
Zn : _
CD : _
pH : 6.5-7

T&C GARMENT
WASTEWATER TREATMENT PLANT

T&C GARMENTS / EGYPT
TEXTILE INDUSTRY
WASTEWATER TREATMENT PLANT
2010

Service Scope
Process :
Activated Sludge Reactor

Units :
• Physical Treatment
- Pumice Holding Basin
- Neutralization Basin

• Biological Treatment
- Aeration / Sedimentation Basin

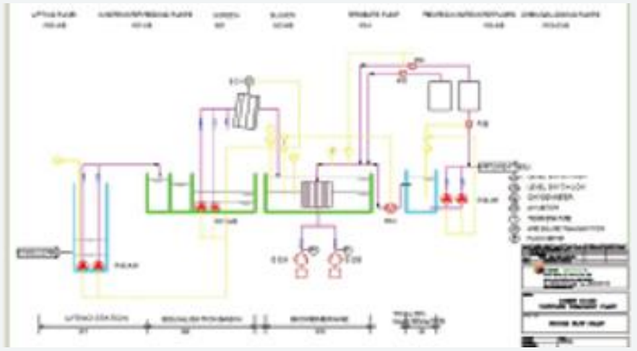
• Sludge Treatment and Dewatering
- Sludge Basin
- Sludge Dewatering

Technicial Specifications
Wastewater Flow: 3000 m3 /day
COD :1200 mg/l
BOI5: 600 mg/l
SS : 350 mg/l (after pumice stone pool
Total Chromium: 1 mg/l
Phenol: 0.5 mg/l
ZSF : 3
pH : 5-6
Temperature : 70 ºC

Treated Wastewater:
BOI5: 30 mg/l
KOI: Monitor Only
SD : 30 mg/l
Pb : 0.1 mg/l
Cu: 0.25 mg/l
Hg: 0.01 mg/l
Zn: 1 mg/l
Cd: 0.01 mg/l
pH: : 6-9

ROBERT COLLEGE
WASTEWATER TREATMENT PLANT

ROBERT COLLEGE
ARNAVUTKOY/ISTANBUL TURKEY
WASTEWATER TREATMENT PLANT
2011



Service Scope
Process :
Advanced Biological Wastewater Treatment Plant

Units :
- Wastewater Lifting Tank
- Oil & Grease Retention Tank
- Balancing Tank
- Fine Screen
- MBR Tank
- Purified Water Tank

Technicial Specifications
BOD5: 400 mg/l
COD: 750 mg/l
Total-N: 55 mg/l
AKM: 350 mg/l
Total P: 5 mg/l

Wastewater Flow: 14 m3 /day
COD : < 15 mg/l
AKM : < 5 mg/l
pH : 7-8

CONTACT

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