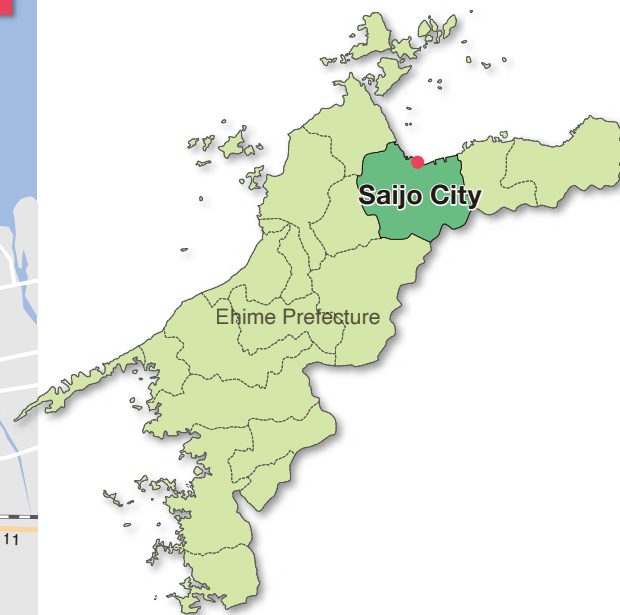




Access
map



Saijo City Hiuchi Clean Center

Ishizuchi Mountain Range



Saijo Matsuri



Uchinuki



Saijo City Hiuchi Clean Center

75 Himibo, Saijo City, Ehime Prefecture 793-0075

Operator



Saijo City

164 Akeyashiki, Saijo City, Ehime Prefecture 793-8601
Tel. +81-897-56-5151 / Fax. +81-897-52-1200

Designing and construction management



NISSAN GIJUTSU CONSULTANTS, INC.

1-2-15 Otemae, Chuo Ward, Osaka City 540-0008
Tel. +81-6-6944-0224

Designing and construction



Mitsui E&S Environment Engineering Co., Ltd.

2-6-1 Nakase, Mihama Ward, Chiba City, Chiba Prefecture 261-713
Tel. +81-43-351-9163



Passing on the beautiful water and nature of Saijo City to the next generation of children

Saijo City safely and hygienically treats the sewage, septic tank sludge, etc., from the city at Hiuchi Clean Center.

Sludge is also used effectively by turning it into a resource, making it an eco-friendly facility, contributing to the realization of a recycling society.

Facility Overview

Operator	Saijo City
Facility name	Saijo City Hiuchi Clean Center
Address	75 Himibo, Saijo City, Ehime Prefecture
Premises area	26,891.97 m ²
Building area	1,023.43 m ²
Floorspace	2,087.46 m ²
Treatment methods	Main treatment – Denitrification of waste with high septic tank sludge content Waste to resource treatment – Combustion improvement of sludge Advanced treatment – Sand filtration + Activated carbon adsorption
Treatment capacity	Sewage: 20 kL/day Septic tank sludge: 52 kL/day Organic wastes: Around 30 kg/day
Construction period	March 2017 – March 2020

Discharged Water Quality



Sewage and septic tank sludge Dewatering separation liquid Biologically treated water Discharged water

pH	5.0 – 9.0
BOD	Less than 10 mg/L
COD	Less than 10 mg/L
Suspended particles	Less than 20 mg/L
Total nitrogen	Less than 10 mg/L
Total phosphorus	Less than 1 mg/L
Chromaticity	Less than 30
Coliform bacterial count	Less than 3,000 per mL

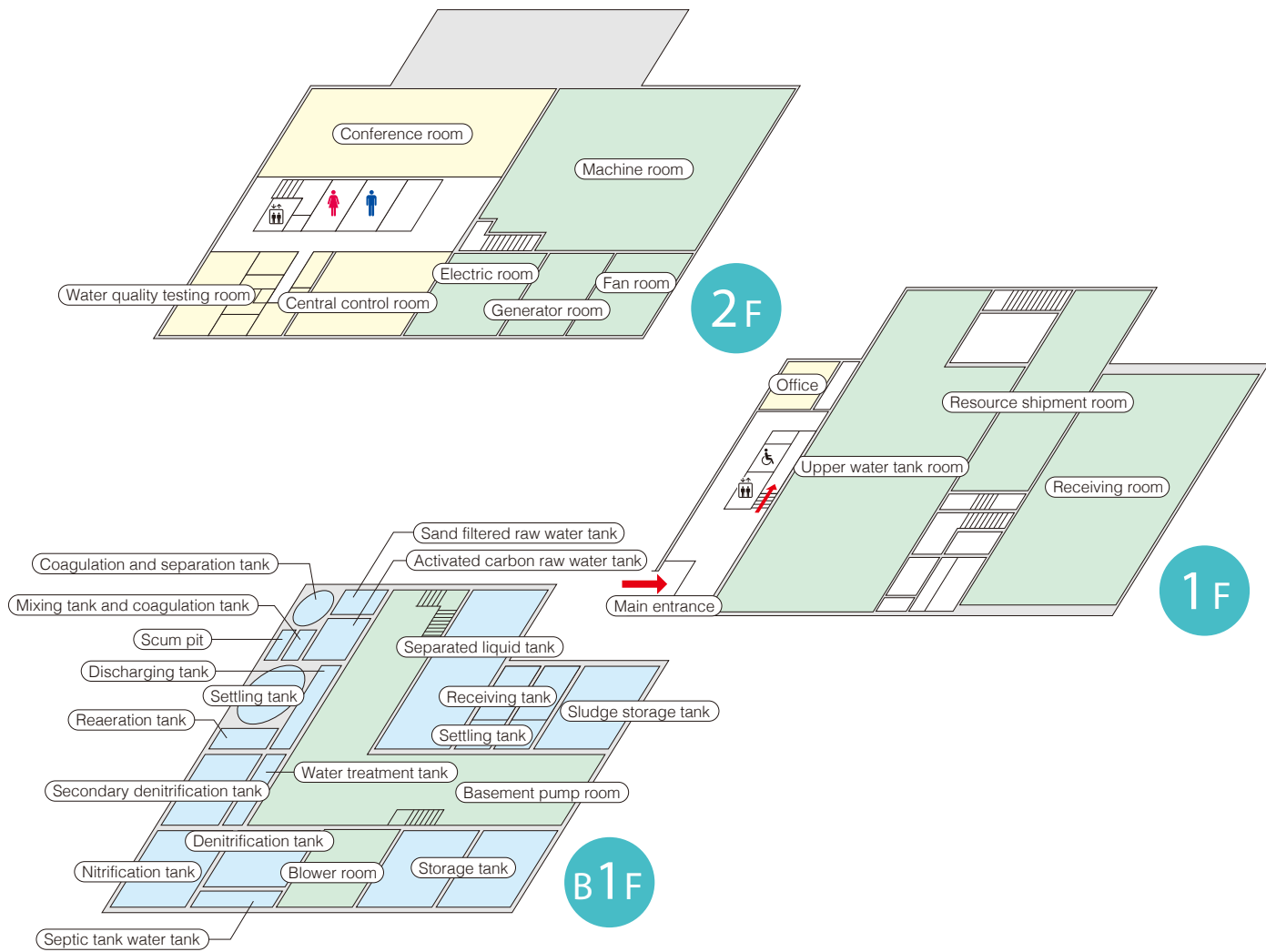
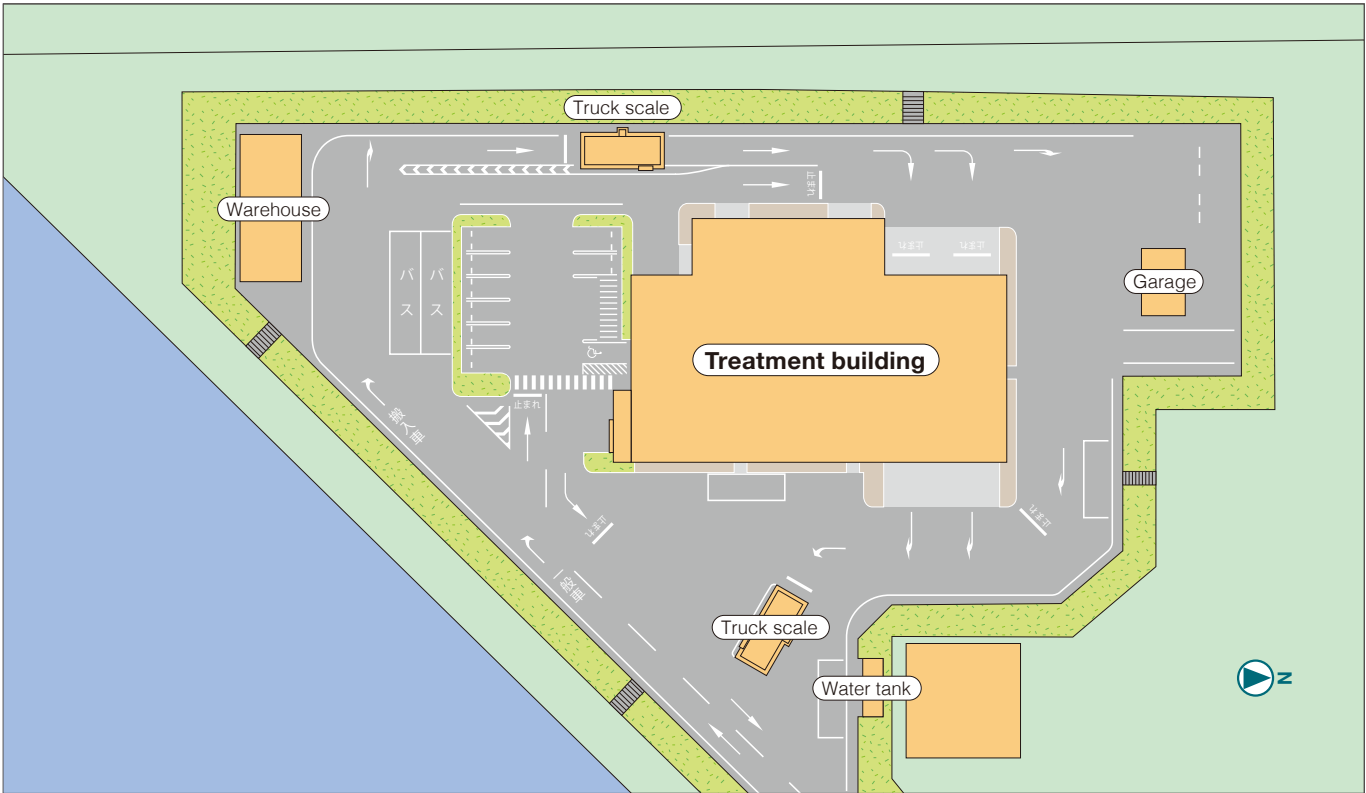
Characteristics of the Facility

Saijo City Hiuchi Clean Center plays two main roles.

It uses biological treatment + advanced treatment to turn sewage and other wastewater into clean water , satisfying the strict discharge standards.

It separates sewage and other wastewater into solids and liquid with combustion improver equipment and reuses the materials.

Facility Layout



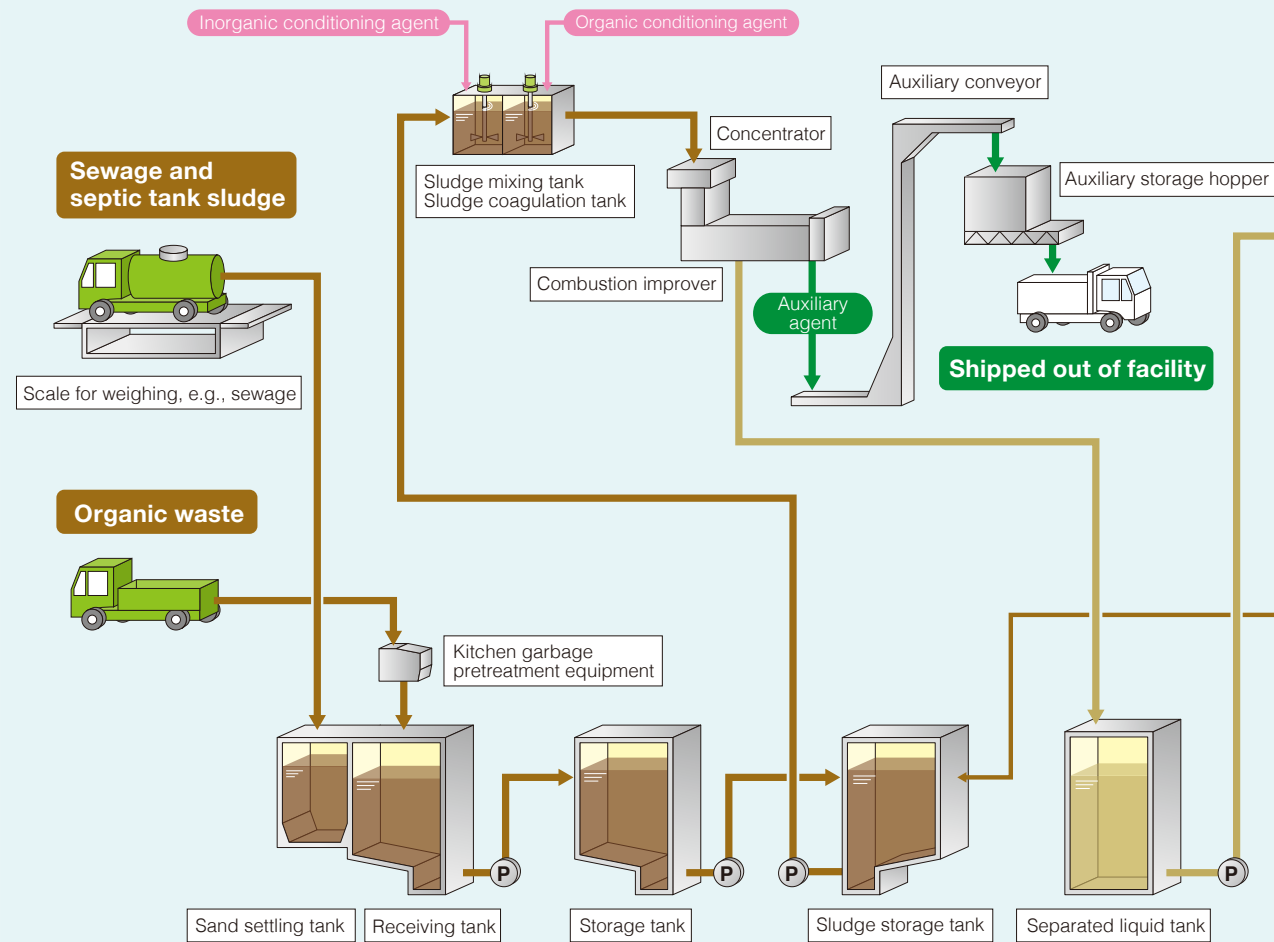


Sludge Retreatment System

The center treats the sewage and septic tank sludge, and cleans the wastewater before discharging it to protect the environment.

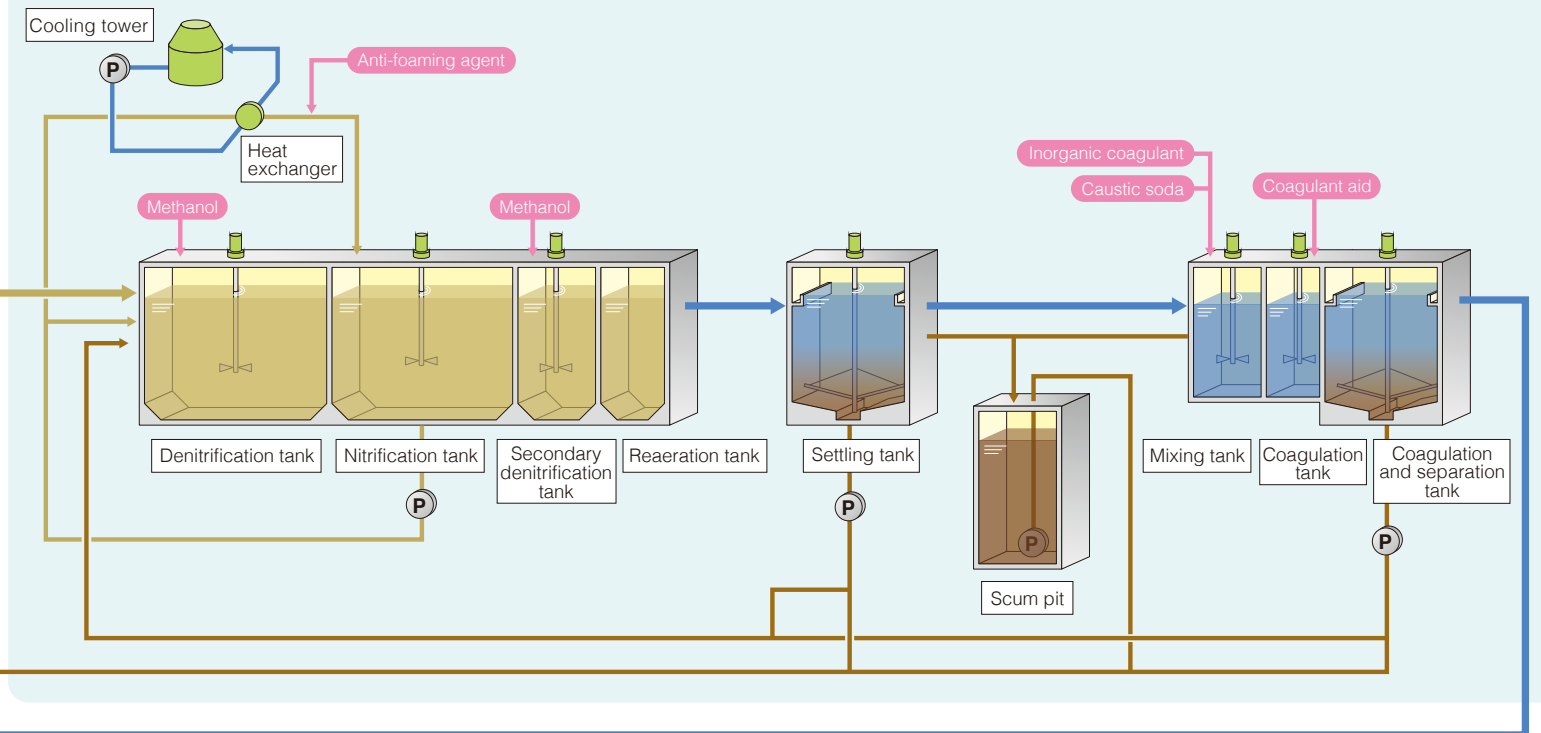
Receiving, Storing and Waste-to-Resource Facility

Sewage and septic tank sludge collected from households are weighed, then pulverized. After pulverization, a chemical agent is added to the sewage and septic tank sludge to separate the solids from the liquid. The sludge is then shipped out and reused as a combustion improver with water content of less than 70%.



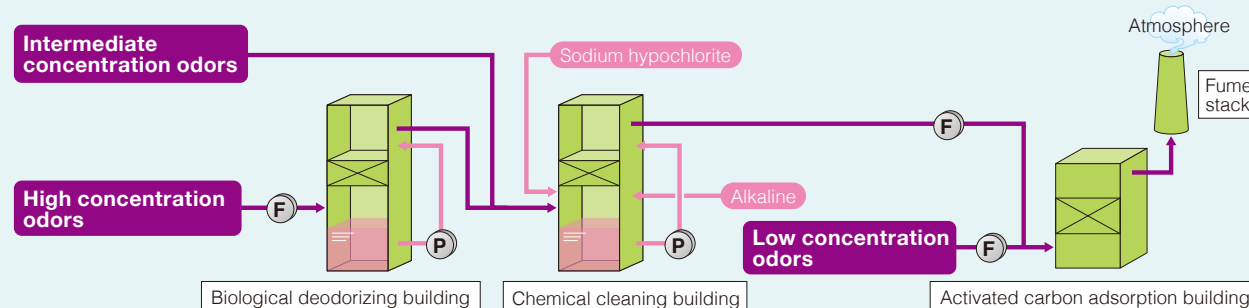
Main Treatment Facility

Organic matter and nitrogen contained in sewage and septic tank sludge are treated biologically with activated sludge (denitrifying bacteria, nitrifying bacteria, etc.), and the supernatant water is separated as treated water in a settling tank, and coagulation and separation tank.



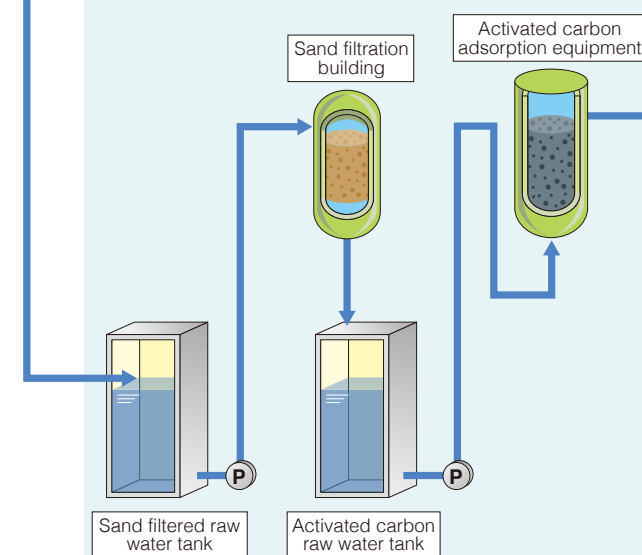
Deodorizing Facility

Odors generated during treatment are collected and treated according to the odor concentration.



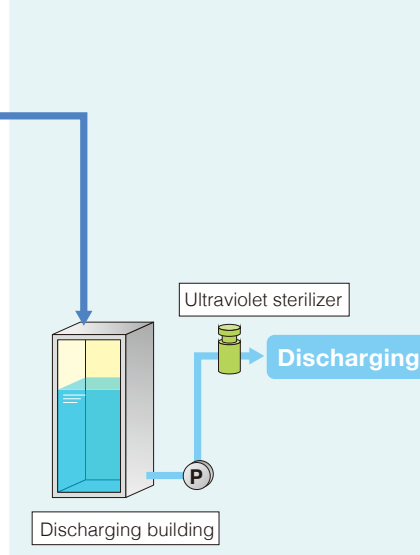
Advanced Treatment Facility

Water after it has been biologically treated undergoes sand filtration and activated carbon adsorption to remove any remaining organic matter.



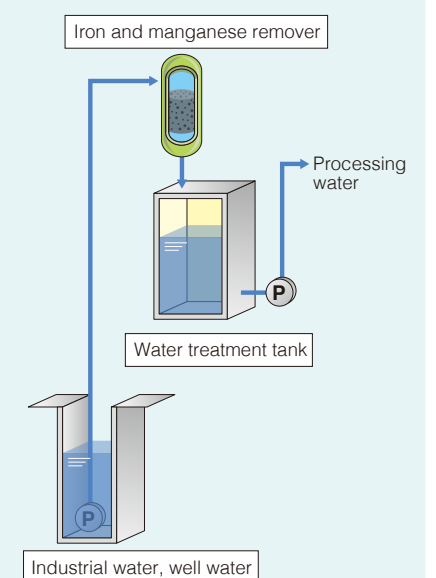
Disinfection and Discharging Facility

Water is discharged after sterilization with ultraviolet light.



Water Intake Facility

Industrial water and underground water is used as processing water.





Saijo City Hiuchi Clean Center in Pictures

From receiving to treatment / discharging / resource

Receiving, Storing and Waste-to-Resource Facility



Truck scale



Receiving room



Pump room



Combustion improver



Auxiliary agent



Auxiliary storage hopper

Advanced Treatment Facility



Sand filtration building



Activated carbon adsorption equipment

Deodorizing Facility



Activated carbon adsorption building



Biological deodorizing building and chemical cleaning building

Main Treatment Facility



Nitrification tank mixer and reaeration equipment



Upper water tank room

Central Control Room



Centralized monitoring of all facilities is carried out in the central control room. The monitoring screens show the states of all machines, allowing management of the operational status and data of each facility.

Water Quality Testing Room



Water quality is analyzed during each process to check the status of treatment.