CEYKO INTERNATIONAL KOREA

WATER TREATMENT PLANT

Clean Water, From Source to Every Home

A complete water purification system — engineered in Korea, delivered for communities that depend on safe, healthy water every single day.

INTRODUCTION

Why Water Treatment Matters

The water we drink does not arrive clean by chance. It is made safe — purified from a natural source through a series of carefully designed steps that remove odor, suspended solids, and harmful bacteria.

Raw water drawn from a river, lake, dam, or reservoir is not fit to drink on its own. Turning it into clean, hygienic water for homes, schools, and businesses is a complex journey through multiple stages and facilities. Every drop of drinking water — and all the water we use in daily life — must be safe and healthy.

A water treatment plant is the system that makes this possible. It takes untreated water and, step by step, transforms it into water that is clear, clean, and safe enough to drink.

01

Safe by Design

Multiple barriers remove particles, odor, and bacteria at every stage.

02

Built for Communities

Scaled for households, schools, hospitals, and whole villages.

03

Proven Engineering

Korean-manufactured technology with international field experience.

THE PROCESS

How Water Is Purified — 9 Stages

The complete journey of water — from the dam to your home.

1

Dam · Water Source

The reservoir where raw water is collected — a river, lake, dam, or reservoir. This is the "water warehouse," the raw material store for everything that follows.

2

Intake · Pumping Station

Where the journey truly begins. Located near the water source, the intake draws in raw water and sends it to the treatment center, while monitoring water quality around the clock for harmful substances.

3

Coagulation · Chemical Tank

A precise dose of coagulant is mixed into the water. It binds fine, cloudy particles (colloids) together, gathering them into larger clusters that can later be removed.

4

Flocculation · Sedimentation

The water is stirred slowly so particles cling together into heavy clumps called "floc." These flocs settle to the bottom, and the clear water above is drawn off — only water in floc form can be properly settled and filtered.

5

Filtration

The settled water passes through layers of sand and gravel, removing even the smallest remaining particles. After filtration, the water is clear enough to drink.

THE PROCESS — CONTINUED

From Disinfection to Your Tap

6 Disinfection

Even clear, filtered water can still carry bacteria. A small, carefully controlled amount of chlorine is added to disinfect the water — the final step that makes it truly hygienic and safe.

7 Clear Water Tank

The disinfected water is held here temporarily. From this tank, powerful pumps send the finished water onward to storage, homes, factories, and businesses.

8 Water Supply · Storage

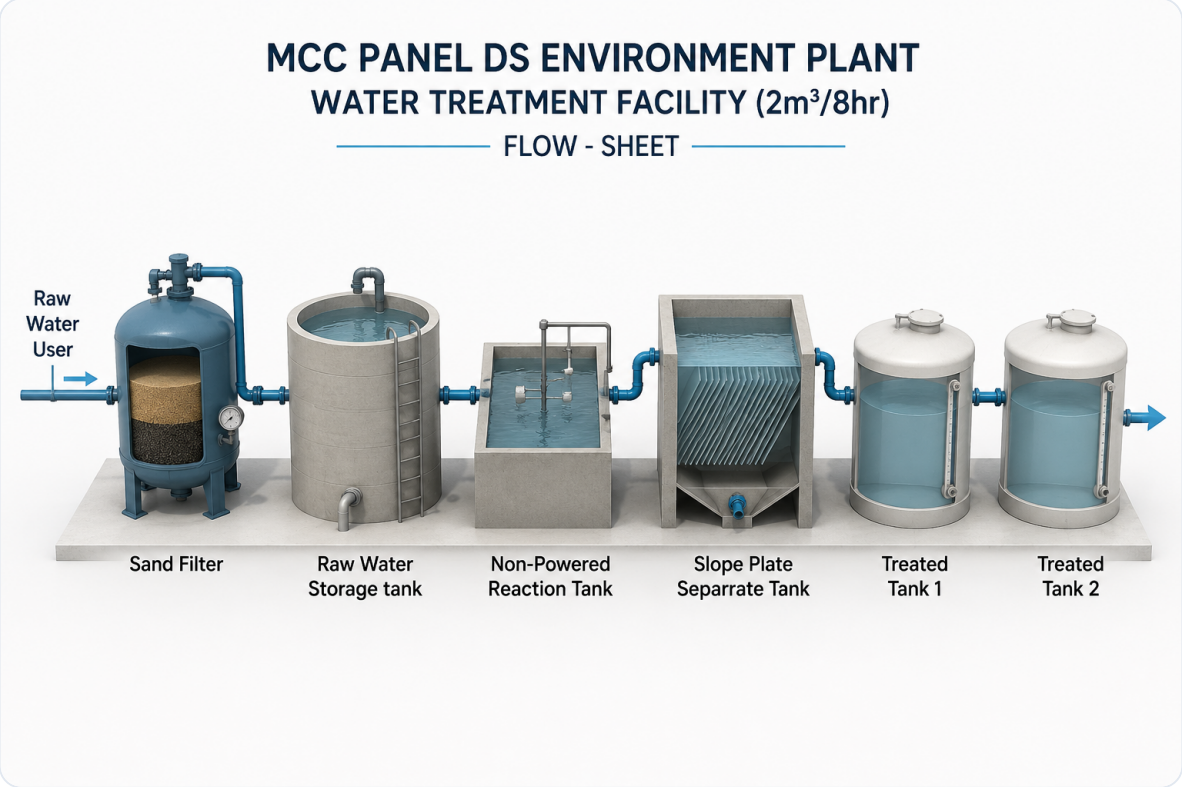
An intermediate reservoir, usually placed on the highest ground nearby, stores treated water before distribution. It also keeps a reserve on hand in case production is ever interrupted.

9 Households

Through the distribution network, clean and safe water finally reaches every home — the destination of the entire process.

OUR SYSTEM

The CEYKO / DS Treatment Unit



Actual process flow of the DS Environmental Plant water treatment facility (2m³/8hr) — a compact, non-powered reaction system.

WHY CEYKO

Proven Technology, Real Results

Clean water, delivered where it is needed most.

CEYKO INTERNATIONAL KOREA supplies water treatment systems built by DS Environmental Plant — a Korean manufacturer with a decade of engineering experience and a track record of installations abroad.

Our systems fit real conditions: compact, simple to operate, and reliable even where power supply is limited.

Korean Manufacturing

Designed and built by DS Environmental Plant, with certified quality and environmental management systems.

International Experience

Proven with overseas water and wastewater treatment installations, including field projects in Vietnam.

Non-Powered Reaction

A core reaction stage that needs no electricity — ideal for regions with an unstable power supply.

Modular & Scalable

Start with a basic unit and expand in stages — matched to each community's budget and needs.

Skid-type unit — manufactured in Korea

Overseas installation — Vietnam

Clean water, in daily use

Bring This System to Your Community

The same process can be built for your village, school, or town — visit our showroom to see it work, and let us plan the right plant for you.

CEYKO INTERNATIONAL KOREA · Sri Lanka +94 776 361 659 · ceykoint@gmail.com