RAITO SOIL MIXING WALL

General Description

RSW (Raito Soil Mixing Wall) is an in-situ soil-cement wall construction method where in-situ soil is mixed with a special slurry consisting of cement, water and other reagents.

Advantages

Higher cutoff performance.
Lower impact on the surrounding ground.
Shorter construction period.
Multi-purpose application.
Low vibration, low noise construction.
Less spoils are produced as compared to conventional diaphragm wall.
Less wall strength is required due to H-section steel beams bearing the lateral loads.

Excavation

Support Wall

Steel H-piles or other reinforcing members are installed inside the soil-cement columns to resist the lateral forces.

Cutoff Wall

RSW method installs soil-cement wall, soil-bentonite wall, soil-clay-bentonite wall for use as barrier walls to contain groundwater or underground pollutants.

Ground Reinforcement

RSW method also installs soil-cement wall, grid, or block for ground stabilization or liquefaction prevention.
**Construction Process**

1. Drill and mix
2. Mix repeatedly
3. Withdraw while mixing
4. Create continuous wall

**Work Space**

Construction yard: 30 - 60m

- Skid pad
- Stack yard
- Plant yard
- Trenching pipe
- Multi-super rig
- Compressor
- Generator
- Crawler crane
- Cement mixer
- Automatic mixing plant
- Generator
- Water tank