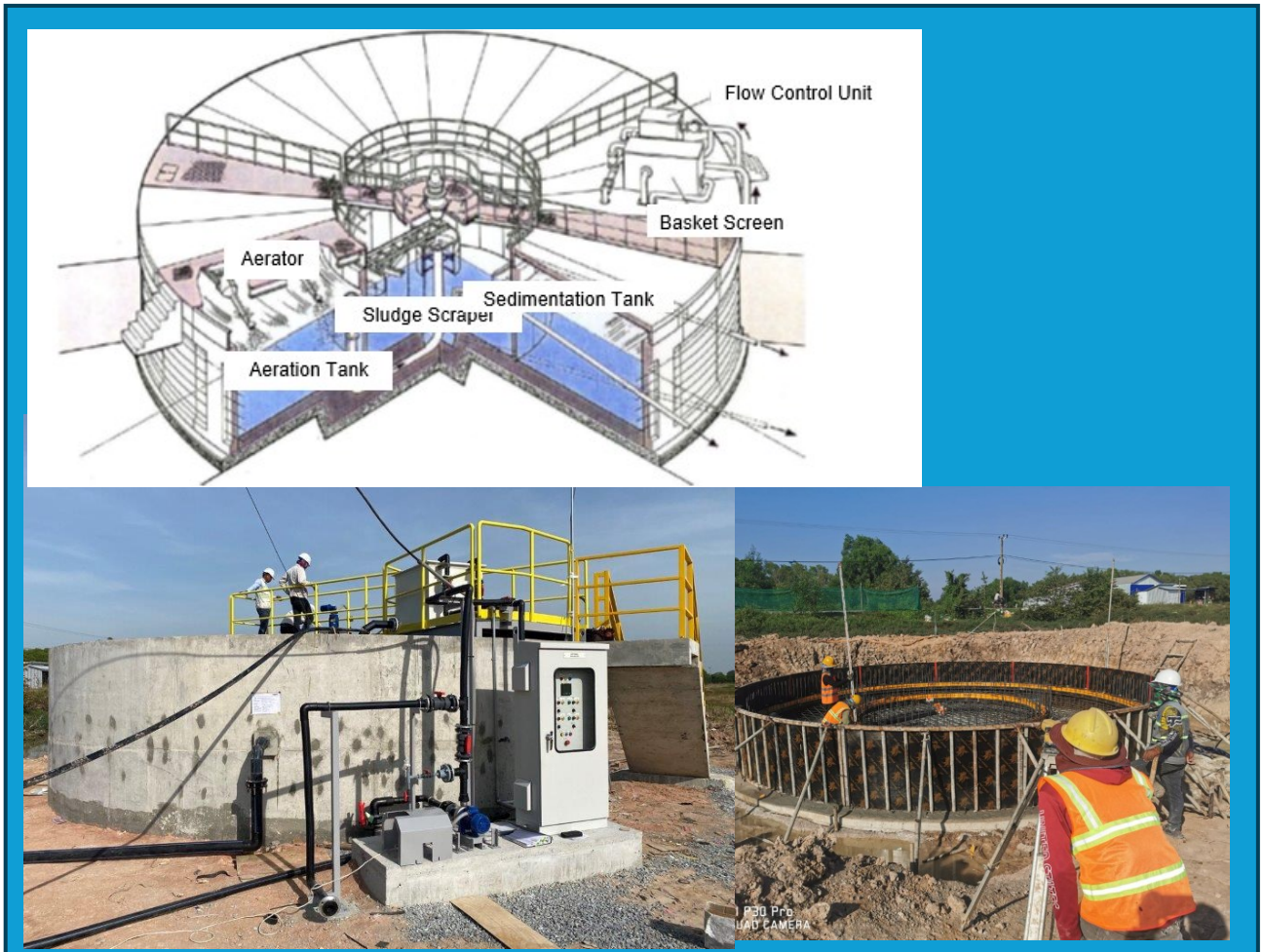


Small-Scaled Sewage Treatment Method Using POD Concept in Cambodia

KOBELCO ECO-SOLUTIONS / JAPAN SEWAGE WORKS AGENCY



Outline of technology

In Japan, almost half of the Sewage Treatment process is OD (Oxidation Ditch) . This is simple structure and easy maintenance with energy saving, especially for small scale of Sewage Treatment Plant.

Japan Sewage Works Agency (JS) have developed Standard Drawing of Prefabricated Oxidation Ditch System in 1986, and they have more than 200 experiences in Japan.

- POD stands for “Prefabricated Oxidation Ditch”
- POD is a packaged system consisting of reaction tank (activated sludge treatment) and final sedimentation tank.
- Develop the standard design for the plant with capacities of 300m³/d, 500m³/d, 800m³/d and 1,200m³/d for the POD concept technology

Features of the technology



- Saves design, labor and construction period by packaged system
- Stable treatment of T-N and T-P
- Easy maintenance

Specifications



- POD is a packaged system consisting of reaction tank (activated sludge treatment) and final sedimentation tank.
- Standard design for 300m3/d, 500m3/d, 800m3/d and 1,200m3/d

m3/d	φ	mm	H	mm	aerator	area	m2
300	13,500	4,900	2	960			
500	17,300	4,900	3	1,350			
800	21,800	4,900	4	1,666			
1,200	26,700	4,900	6	2,106			

Overview of the demonstration



	Inlet	Standard
SS	: 160mg/L	≦ 50mg/L
BOD	: 200mg/L	≦ 30mg/L
T-N	: 50mg/L	≦ 20mg/L

WOW TO JAPAN Project (Wonder Of Wastewater Technology Of JAPAN Project)

POD Concept conducted a demonstration in 2022 as part of the Ministry of Land, Infrastructure, Transport and Tourism’s “WOW TO JAPAN Project (Wonder of Wastewater Technology of JAPAN Project).”