

# DOS

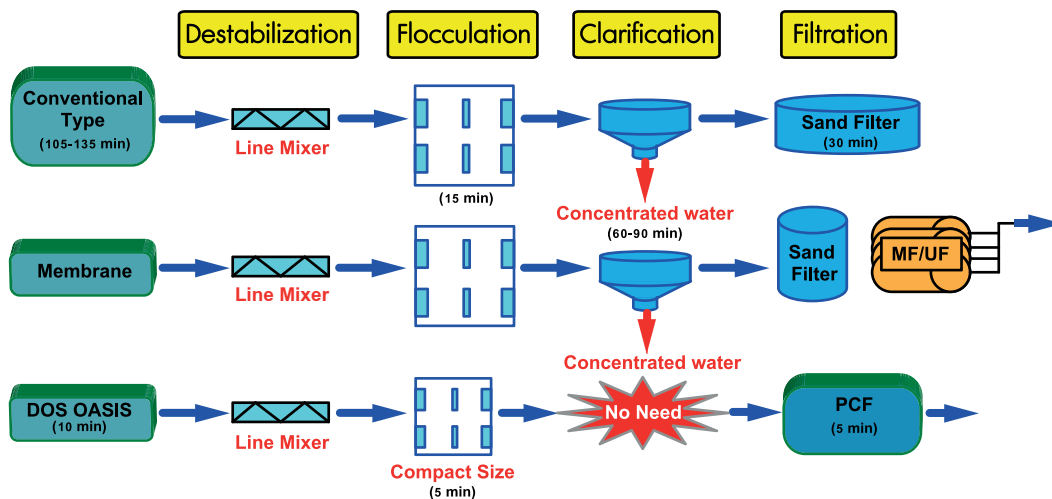
## GREENOVATION



# DOS OASIS

Containerized  
Mobile  
Water Treatment Plant

OASIS is an innovative Technology of DOS water solutions using fiber filters. This process can produce potable water for the surface water like river by direct filtration with coagulation using two PCF (Pore Controllable Fiber) filters connected serially. With comparison of the conventional process, size of DOS OASIS is 1/30, construction cost is below 2/3, operation cost is below 1/3 and removal efficiency is more than 95% (100->0.5 NTU). DOS OASIS should install containerized type up to 15,000 m<sup>3</sup>/day, and over 15,000 m<sup>3</sup>/day should be designed general concept.



## Advantage of DOS OASIS

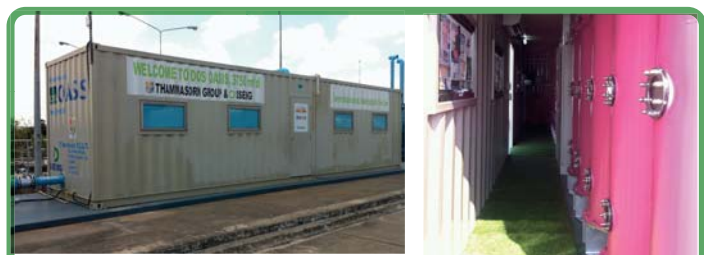
<b>Compact size</b>	Size is 1/30 of the conventional process by direct filtration (no precipitation) and large filtration area per filter volume.
<b>Excellent filtrate quality</b>	Turbidity is removed from 100 NTU to below 0.5NTU and SDI 15 is below 4.0 by pressurized fine fibers.
<b>Low Concentration of Coagulant Dose</b>	Coagulant dose is below ½ of the conventional process by removing the coagulated floc over 5.0µ m
<b>Full Automation</b>	Automation backwash by pre-set inlet pressure and automatic dose optimization by artificial dosing S/W for turbidity variations.

## Specification of DOS OASIS

CONTAINER SIZE	10 ft.	10 ft.	10 ft.	10 ft.
MODEL	WTP- C500	WTP- C1000	WTP-C 1500/S	WTP-C 3000/D
CAPACITY(m <sup>3</sup> /d)	500	1,000	1,500	3,000
UNIT×SETS	PCF-500×1	PCF-500×2	PCF-500×3	PCF-500×6
SERVICE(PERSON)	5,000	10,000	15,000	30,000
20 ft.	20 ft.	40 ft. (H.C)	40 ft. (H.C)	45 ft. (H.C)
WTP-C 3500/S	WTP-C7000/D	WTP-C8000/S	WTP-C13000/D	WTP-C15000/D
3,500	7,000	8,000	13,000	15,000
PCF-500×7	PCF-500×14	PCF-542×15	PCF-542×24	PCF-542×28
35,000	70,000	80,000	130,000	150,000

Additional process is necessary for remove of odor, hardness, color, TDS, COD, BOD etc.

- The date may be changed without advance notice to enhance the performance.
- Inhabitants: Requirement water amount = 100 L / person day.
- The capacity at above table is for normal state based on about 50 NTUs of the raw water and may be decreased as the raw turbidity is increased.



MWA Mahasawat 3,750 m<sup>3</sup>/d



Napradu Subdistrict Municipality, Pattani Province  
3,000 m<sup>3</sup>/d

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