

Criteria for selection of STP:

- Meet Quality
- Minimal power
- Minimal foot print/area
- Optimal CAPEX
- Minimal O&E /OPEX Cost

Process/Technology	BOD Removal	TSS Removal	Load Variation	Res. Time	Sludge rate	Continuous Monitoring	Land area	Power	Automatic	Capital Cost	O&M Cost	Consumables
Measurement criteria	%	%	Yes/No	D/H	L/M/H	Yes/No	L/M/H	L/M/H	Yes/No	L/M/H	L/M/H	L/M/H
Activated Sludge Process (ASP)	< 90%	<90%	No	18-24 H	M	Yes	H	H	No	H	H	H
Waste Stabilization Pond (WSP)	< 90%	<70%	No	6-8 D	H	No	H	L	Yes	M	L	L
Faculative Aerobic Lagoon (FAL)	<70%	<70%	No	3-6 D	M	No	H	L	Yes	M	L	L
Membrane Bio Reactor (MBR)	>90%	>70%	No	6-8 H	M	Yes	M	H	No	H	H	H
Duckweek Pond System (DPS)	<90%	<90%	No	7- 21 D	H	No	H	L	Yes	L	L	L
Trickling Filter (TF)	<80%	>90%	No	1-2 D	L	No	M	H	Yes	M	M	M
Sequence Batch Reactor (SBR)	>90%	>70%	No	12-18 H	H	Yes	M	M	No	H	M	M
Electro-Oxy-Coagulation (EOC)	> 95%	> 98%	Yes	0.5 H	H	No	L	L	Yes	M	L	L

L/M/H - Low/Moderate/High

D/H/M- Days/Hours/Minutes