

Case history brief:

Location: Negeri Sembilan, Malaysia
Application: Package Potable Water Treatment Plant
Capacity: 3 MGD @ 20 hours
Clarification:

Parameter	Inlet	Outlet	
		After clarifier	After Filters
pH	6.0-7.0	7.0-8.5	7.0-8.5
Turbidity	1,000NTU max	Below 10 NTU	Below 5 NTU
Al ³⁻¹	0.05 mg/l	Below 0.2 mg/l	Below 0.2
Iron	1.0 mg/l	Below 0.3 mg/l	Below 0.3

Installation: 2003

Case history features:

The raw water from the intake pump sump will first aerated at the aeration tower before enter the in-cline plate clarifier for liquid & solids separation via sedimentation process. Chemical such as Alum & Lime will be add in to enhance the coagulation process through an in-line mixer build in along the pipe line. Polymer also will be dose in before the water enter into the in-cline plate clarifier. The flocculation process to enhance better floc & dense formation sludge will happen via special build in zic-zac flocculator inside the clarifier when the water go through the in-cline plate, the sludge go down-wards & clarify water go up-wards. The clarify water then will be going through the filtration process through KWI KS Filter and chlorinated before pump it to reservoir.

