

TECHNOLOGY FOR THE TEXTILE INDUSTRY

AAA[®] TECHNOLOGY FOR TEXTILE WASTEWATER TREATMENT

Enhances biological treatment efficiency



Reduces colour



Minimises sludge generation



WHAT IS AAA[®] TECHNOLOGY?

A highly successful innovation to treat textile wastewater

A combination of air flotation, anaerobic, and aerobic technologies

HOW DOES AAA[®] TECHNOLOGY WORK?

Stage 1



- Air flotation process eliminates fibres, fluff and suspended impurities from incoming effluent
- Result: 70-80% reduction in suspended impurities

- Specially developed anaerobic micro-organisms break down the complex colour-causing organic molecules and COD in the effluent
- Result: 45-50% colour reduction and 30-40% COD reduction

Stage 2



Stage 3



- Aerobic micro-organisms break down the residual organics and colour
- Result: 80-85% colour and COD reduction

- Polishing with Multigrade Filter (MGF) and Activated Carbon Filter (ACF)
- Result: Effluent disposal becomes easier

Stage 4



Stage 5



- Further treatment with membrane processes (RDRO, SUFRO)
- Result: 85-90% recovery of wastewater

WHAT ARE THE BENEFITS OF THIS TECHNOLOGY?



85-90% colour reduction without chemicals

70% overall sludge reduction



30-35% footprint reduction compared to conventional aerobic process

20-25% overall power reduction compared to conventional aerobic process



Reduced chemical consumption and related costs

Generates methane-rich biogas, which can be used as fuel



Improved consistency in treated effluent quality

Saves sludge hauling and treatment charges



Safe disposal of treated effluent

Eco-friendly process

