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S7, a plant is proposed to treat Water In pollution - 40mg/ L - which contains organic matter and has a high TDS (total dissolved solids). The objective is to remove TDS before the Water enters the Sewage treatment plant. What do you recommend? PROJECT DESCRIPTION The current NPP has been operating for more than 10 years. It is designed for a daily consumption of 3200 m³. It is fed by a 20000 m³/day WTP which is cooled using a Â sand water / air heat exchanger. The plant is controlled by 2 on-lineÂ analog controllers (FIGS. 1a and 1b). The feedÂ water temperature is kept constant in a range between 13Î± 14Ã℃ (Â FIG. 1a). The treatedÂ water is reÂ used in the WWTP. EXISTING DOWNSIDE EFFECTS WaterÂ treatment plant uses a lot of energy because the water contains a lot of dissolved oxygen (D.O.) Â Water has a high D.O content (fig. 2). The incoming rawÂ waterÂ contains a large quantity of oxygen. Respiratory enzymes enable the inÂ processÂ inoculum to utilize this oxygen. Hence the D.O content in the treatedÂ waterÂ gets low. This results in a high organicÂ matterÂ loading of a secondary treatment system. Because of a high D.O content, microbial Â consumption of the organicÂ matterÂ magnifies the problem. A high carbon/nitrogenÂ ratioÂ is another existing side effect. The amount of released nitrogen into the treated wastewater is high.Â WaterÂ reuseÂ also adds considerable amount of nitrogen intoÂ theÂ wastewater (WTW). Also, nitrogen concentration in water increases at Â higher inletÂ temperaturesÂ (Fig. 2). High nitrogen loading is not desirable because it is harmful to aquatic life. HighÂ D.OÂ content in the treatedÂ waterÂ is highly undesirable because the microbes in the nitrification unitsÂ would consume this oxygen. Process equipment downstream of this unitâ␣␣sÂ can also be negatively affected byÂ this high OÂ contentÂ (e.g. Â sewage

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