

## **OPTIMIZING THE PROCESS OF ZERO LIQUID DISCHARGE IN MOLLASES BASED DISTILLERY INDUSTRY IN A THEORITICAL WAY**

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### **Abstract**

Environmental security has, for at least the last 50 years, been a foremost apprehension in the enlightened countries of the world. The concern initially was limited to public health but has, since the 1970's, been expanded to include the environment. As stewards of our environment, we are responsible for the protection of the environment, for our own sake and for the benefit of generations to follow. It is accepted that humankind cannot continue to advance technology while ignoring the environmental deterioration that occurs when we irresponsibly discharge the waste from our technology. Indeed, the sustainable increase of our civilization requires, as the only reasonable and feasible way to co-exist on our planet with nature, that we protect our fragile environment. The legislation promulgated to provide environmental protection has the purpose of non-deterioration of present environmental conditions, but the improvement of these conditions so that we can achieve zero liquid discharge of distillery industry by previous research and new implementation this paper deal with all theoretical aspect of technical availabilities and its possible implementation in distillery industry for achieving ZLD.

Keyword: ZLD, Reactors, Reverse Osmosis and Bio-composting, Fertification.