

Intervening Technology/ Technique	Modernization and Up gradation of Effluent Treatment Plant	
About the Industry	M/s. Ramdev Chemical Industries located at the Ankleshwar, Gujarat, India. Company engaged in manufacturing of Copper Phthalocyanine crude and copper Phthalocyanine pigments like Beta Blue, Alfa Blue, and Activated CPC Blue.	
	<p>Before Ramdev Chemical Unit generates sustainable quantity of effluent, and the quality of which in most of the cases was unsuitable for further use. It causes environmental problems, if disposed of without proper treatment. At present, due to the increasing resource constraints and the environmental requirements, these Chemical units need to adopt a sustainable approach, and wastes should be viewed as an unutilized resource. Water and Chemicals should be recovered.</p> <p>After Advance treatment like Multi Effect Evaporator (MEE) helps in reducing the pollution and also provides a better scope for the recovery and recycling of Water and Chemicals. Company proposes to put up a New Project for Modernization an Up Gradation of Existing Effluent Treatment Plant with Suitable and Advanced Waste Water Recycling System with suitable Machinery.</p>	
Benefits	Before CP	After CP
<i>Economical</i>	<ul style="list-style-type: none"> Water and salt were not recovered from the waste stream for reusing. 	<ul style="list-style-type: none"> MEE system reasonably good for the reuse in pigment operation. Water and Salt can reduce recurring cost of treatment system.
	<ul style="list-style-type: none"> ME systems permeates salt water but rejects other contaminants from effluent stream. 	<ul style="list-style-type: none"> The brine when reused in plant requires less addition of salt.
<i>Environmental</i>	<ul style="list-style-type: none"> Salts not recovered. Effluent not treated. 	<ul style="list-style-type: none"> Recovering the salts reducing the problems related to disposal of TDS effluent streams. Recycling and reuse of the treated effluent and salt directly conserve natural resources and a step towards sustainable development.

