

Intervening technique / technology	Co-processing of Pharmaceutical Waste in Cement Kiln.
About the industry	M/s. Lupin Ltd. is located at Ankleshwar, Gujarat. The Company is engaged in manufacturing of cephalosporin (API) with FDA approval to manufacture complex oral and injectable cephalosporin.
Implemented technology / technique	<p>Before</p> <ul style="list-style-type: none"> ● Lupin Ltd was generating 200T of liquid process waste having calorific value of around 5000 Kcal / kg. Lupin used to send the same to the Incinerators outside by paying cost for incineration. <p>After</p> <ul style="list-style-type: none"> ● Co-processing of Incinerable waste is an alternate fuel and it is environment friendly especially in the cement kiln due to operation above 1700°C temperature where waste will get decomposed full and no residue left. ● Ambuja Cement Limited has received the final approval from the Central Pollution Control Board, New Delhi to accept liquid waste at their Kodinar Plant.
Benefits	
Economical	<ul style="list-style-type: none"> ● Regular co-processing of waste -2500 MT/year. Saving of cost of disposal by incineration-250 lac/year.
	<ul style="list-style-type: none"> ● Reduction in the use of non-renewable fossil fuels viz: Coal 3800MT/year. ● Recovery of energy from the alternative fuel material. ● Elimination of the disposal of the waste in the land fill or incineration. ● Cement industries used to burn coal as fuel which has substantial impact on natural resources and co – processing of incinerable waste, cement industry substantially save the coal usage. ● Alternate fuel is substantially reduced the air pollution.

