## Cost Benefit Analysis: Monochlorobenzene & Sulfolene Distillation





SI.N	Description	WET	DRY
1	Power/Steam (Cost)	19,80,000.00	5,43,312.00
2	Utility (Cost)	7,65,600	2,11,200
3	Solvent Recovery (Saving)	0	5,40,000.00
4	N2/Air Utility (Cost)	0	79,200.00
5	Maintenance (Cost)	1,20,000.00	1,43,100.00
6	Total (Cost+Saving)	28,65,600.00	9,76,812.00
	Total Direct Sa	18,88,788.00	
	% Utility Cost Spen	34.09%	
%	Saving Utility Cost Spen	65.91%	

PRODUCTIVITY:				
TIME SAVING	22 Hrs/Batch	18 Hrs/Batch		
QUALITY	98-98.5% Product Purity	99% Product Purity		
SOLVENT RECOVERY	0	5,40,000.00		

## Process Brief:

Product : MonoChlorobenzene and Sulfolene

2) Process : Distillation under Vacuum.

3) Pumping : 1000m3/hr.

Yacuum : 5 TORR.

5) Vacuum System : SUPER VAC + POST CONDENSER.

6) Old System : 3 Stage Ejector with Intermediate condenser

## Operational Cost Comparison

