Cost Benefit Analysis : Curcumin (Oleoresin)



SI.N	Description	SEMI-DRY	DRY
1	Power/Steam (Cost)	3,30,000.00	2,31,000.00
2	Utility (Cost)	0	3,300
3	Solvent Recovery (Saving)	0	1,37,500.00
4	N2/Air Utility (Cost)	0	66,000.00
5	Maintenance (Cost)	3,90,000.00	93,100.00
6	Total (Cost+Saving)	7,20,000.00	3,93,400.00
	Total Direct Sa	4,64,100.00	
	% Utility Cost Spen	54.64%	
%	Saving Utility Cost Spen	45.36%	

PRODUCTIVITY:				
TIME SAVING	12 Hrs/Batch	10 Hrs/Batch		
QUALITY	96% Product Purity	98% Product Purity		
SOLVENT RECOVERY	0	1,37,500.00		

Process Brief:

Product : Curcumin (Oleoresin)

2) Process : Extraction of Hexane & Ethyl Acetate from Curcumin

3) Pumping : 300 m3/hr. 4) Vacuum : 5 TORR.

5) Vacuum System : Dry Screw Vacuum Pump - 300 m3/hr

6) Old System : Rotary Oil Vane Vacuum Pump - 300 m3/hr

