

# Cost Benefit Analysis : Food/Beverage Drying



**EVEREST VACUUM**  
Innovative Engineering Solutions



## Process Brief:

- 1) Product : Glycerine Recovery
- 2) Process : Extraction/ Distillation
- 3) Pumping : 18000 m3/hr.
- 4) Vacuum : 2 TORR.
- 5) Vacuum System : SUPER VAC (18000.5250.800)
- 6) Old System : 4 Stage Ejector with Intermediate condenser

Sl. N	Description	WET	DRY
1	Power/Steam (Cost)	45,00,000.00	7,94,325.00
2	Utility (Cost)	27,28,200.00	20,18,000.00
3	Solvent Recovery (Saving)	0.00	0.00
4	N2/Air Utility (Cost)	0.00	3,000.00
5	Maintenance (Cost)	1,70,000.00	70,000.00
6	Total (Cost+Saving)	73,98,200.00	28,85,325.00
<b>Total Direct Saving (Wet - Dry)</b>			<b>45,12,875.00</b>
% Utility Cost Spend (DRY to WET)			39.00%
% Saving Utility Cost Spend (DRY to WET)			<b>61.00%</b>



## Other Benefits:

- Cycle Time Reduction.
- Product Yield/Recovery Improvement.
- Product Quality Improvement.