

Ammonia Tricreside Upgrading Plant - Estimated Capital Cost.

1.	Installed Equipment	1,169,000.
2.	Process piping and Installation at 30%	350,700.
3.	Instrumentation and Control at 12%	140,280.
4.	Electrical Installation at 20%	233,800.
5.	Process Building at 40%	467,600.
6.	Plant Services at 10%	116,900.
7.	Site Improvement at 10%	<u>116,900.</u>

Direct Costs

\$ 2,595,200.

Engineering and Supervision at 30%

778,550.

Direct + Indirect Cost

3,373,800.

Contingency Fee at 15%

506,060.

Total Estimated Capital Cost

3,879,800.

4.5×10^6

Dryer 100,000

SW Crystallizer 400,000

Aransas Pass Upgrade Upgrading Plant - Estimated Operating Cost

Operating Cost

1. Manpower	\$ 289,000.
2. Electric Power - Process	28,510.
3. Heat - Process (at \$.7/U.S. Gal. of No. 2 Oil)	144,110.
4. Cooling Water	-
5. Maintenance Material (4% of Equipment Cost)	21,750.

Subtotal

\$ 483,370.

Contingency

10%

48,337.

Direct Operating Cost

\$ 531,707.

Property Tax Allowance (1.2% of Plant Cost)

27,193.

Insurance (.3% of Plant Cost)

6,798.

Total Operating Cost

\$ 565,698.

$$\frac{56569800\text{¢/Year}}{8886240\text{ lbs./Year}} = 6.37\text{¢/lb.}$$

Production value at \$.25/lb. = \$2,221,560./Year

A. ATMOSPHERIC LEACH

Plant Cost

1. Installed Equipment		\$ 698,500.
2. Process Piping	30%	210,000.
3. Instrumentation	12%	83,800.
4. Auxiliaries (electric, c.w., compressed air)	20%	139,700.
5. Outside Lines	2.5%	50,000.
6. Buildings	40%	280,000.

Plant Costs \$1,462,000.

Engineering and Construction	30%	438,600.
Contingency	20%	292,400.
Size Factor	5%	73,100.

Total Plant Costs \$2,266,100.

Operating Cost

1. Manpower		\$ 289,000.
2. Electric Power - Process		28,510.
3. Heat - Process (at \$.7/U.S. Gal. of No. 2 Oil)		144,110.
4. Cooling Water		-
5. Maintenance Material (4% of Equipment Cost)		21,750.

Subtotal \$ 483,370.

Contingency	10%	48,337.
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