Table 1: Ethylene production plant economics.

ETHYLENE PRODUCTION PLANT ECONOMICS				
Plant Capacity				
Daily	195.14	(mt/d)		
Annual (95%)	67664.32	(mt/y)		
Gas Consumption				
Per metric ton	98.06	MMBTU		
Per day	19134.8	MMBTU		
Ethane Volume (1,770 Btu/scf)	10.81	MMSCFD		
Feed Gas Needed (20 years)	74971.64	MMSCF		
Capital Investment				
Battery Limits	\$20,864,974.00	USD		
Offsite	\$7,302,740.90	USD		
Owner's Project Costs	\$5,633,542.98	USD		
TOTAL FIXED INVESTMENT	\$33,801,257.88	USD		
Production Cost				
Ethane gas (\$8/MMBTU)	784.46	US \$/mt		
Utilities, chemicals	15	US \$/mt		
Variable Costs	799.46	US \$/mt		
Fixed Costs (labour, maintenance, over- heads)				
	10	US \$/mt		
Total Cash Costs	809.46	US \$/mt		
Depreciation (10% of TFI)	2.5	US \$/mt		
Total Cost of Production	811.96	US \$/mt		
Return on Investment (before tax) 20% of TFI	5	US \$/mt		
Required Plant Gate Price	816.96	US \$/mt		
Shipping (20% CAPEX)	5	US \$/mt		
Total Required Delivered Price	821.95	US \$/mt		

Table 2: Estimated revenue accrued from sales.

ESTIMATED REVENUE			
Plant Capacity			
Daily	195.14	(mt/d)	
Annual (95%)	67664.32	(mt/y)	
Ethylene	Average Price		
Per metric ton	\$1,060.00	\$	
Daily Revenue	\$206,846.94	\$/d	
Yearly Revenue (95%)	\$71,724,176.19	\$/y	
Propylene	Average Price		
Per metric ton	\$997.00	0	
Daily Revenue	\$4,101.32	\$/d	

Yearly Revenue (95%)	\$1,422,133.32	\$/y
TOTAL		
Daily Revenue	\$210,948.26	\$/d
Yearly Revenue (95%)	\$73,146,309.51	\$/y