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# General Process Plant Cost Estimating Engineering

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## ~~Engineering Construction~~ *Depreciation explained* **General Process Plant Cost Estimating**

Cost estimation is a specialized subject and a profession in its own right, but the design engineer must be able to make rough cost estimates to decide between project alternatives and optimize the...

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Cost estimation may be defined as the process of forecasting the expenses that must be incurred to manufacture a product. These expenses take into consideration all expenditures involved in design and manufacturing with all the related service facilities such as pattern making, tool making as well as portion of the general administrative and selling costs.

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## **GENERAL PROCESS PLANT COST ESTIMATING | M A N O X B L O G**

As a rough average, land costs for industrial plants amount to 4 to 8 percent of the. These design guideline are believed to be as accurate as possible, but are very general and not for specific design cases. They were designed for engineers to do preliminary designs and process specification sheets.

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**DESIGN GUIDELINE) Co Author: Reni  
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**GENERAL PROCESS**

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June 2014. F. Estimating Procedure.

Committees within the firm are formed to plan for the future and prepare capital budgets. The economic evaluation of a process proceeds in several ...

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ESTIMATING PLANT CAPITAL COST.

TOTAL PLANT CAPITAL COST TIC =

Equipment & Materials Costs +.

709.2-2SC-003-2 PROCESS

EQUIPMENT @ 50% Scale Platform

709.2-2SC-003-2 UTILITIES @ 50%

Scale Platform HIPPO New MTO

PROCESS PIPEWORK (4.5% of

equipment cost) FEMS - Pharmagraph

Delete Chart Recorders Process Control

System (8.9% of equipment cost) Process

Instruments (3.4% of equipment cost)

Process MCC (1.8% of equipment cost)

SUB TOTAL PROCESS SUB DIRECT

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COSTS (DCC) 12,572,593 250,000  
130,000 ...

## **CAPITAL COST ESTIMATING -**

### **Process Safety Consultant**

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Once individual equipment costs are

known from either manufacturers' price

quotations or estimating charts as

discussed in the previous chapter, they can



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Engineering  
be utilized to form preliminary total plant cost estimates. A suggested sequence for obtaining such estimates is as follows: 1.

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vast, comprehensive tabulation of estimating cost data presented in the March 24, 1969 issue of Chemical Engineering magazine. This article by K.M. Guthrie is entitled “Data and Techniques for Preliminary Capital Cost Estimating”. While the source for the concept and the presented

## **Process Equipment Cost Estimating by Ratio and Proportion**

In general, it is not practical or cost-effective to use IPE for the assessment of cost estimates contained in proposals for novel processes or in generating rough cost estimates from laboratory scale data. Instead, the factored estimation

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methodology, a cost-effective methodology widely used in industry, is more suitable for that application.

## **Process Equipment Cost Estimation Final Report**

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### **General Process Plant Cost Estimating Engineering**

While the Lang factors are quite old, they are still useful for checking estimates of process plant construction costs. Lang predicted total plant construction cost based upon the delivered cost of plant equipment. The factors are 3.1 for solids processing plants (a coal preparation plant for example) 3.63 for a solid-fluids process plant (a coal gasification plant would be an example) 4.74 for a fluids processing plant (such as an oil refinery).

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## **Lang Factors for Cost Estimates - Industrial/Mfg ...**

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## **General Process Plant Cost Estimating Engineering ...**

B.2.2 Overview of the Cost Estimating  
Process Traditionally, cost estimates are  
produced by gathering input, developing  
the cost estimate and its documentation,  
and generating necessary output. Table  
B-1 explains the GAO cost estimating  
process steps that should be followed if  
accurate and credible cost estimates are to

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## **Appendix B - Cost Estimating and Best Practices.**

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