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Depreciation explained
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Cost Estimating
Cost estimation is a
specialized subject and a

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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 ESTIMATING,
Kolmetz ...

Cost estimation may be

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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

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and selling costs. Plant

Cost Estimating

Engineering

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

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cases. They were designed for engineers to do preliminary designs and process specification sheets.

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Capital Requirement 7 C.

Capital Investments 7 I.

Fixed Capital Investment

7 i. Method 1 7 ii.

Method 2 8 ...

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Cost Estimating

Engineering the expenses that must be incurred to manufacture a product.

These expenses take into consideration all

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manufacturing with all the related service

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making, tool making as well as portion of the general administrative and selling costs.

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PLANT COST

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ESTIMATING (Plant
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ESTIMATING PLANT

CAPITAL COST. TOTAL

PLANT CAPITAL

COST TIC = Equipment

& Materials Costs +.

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PROCESS

EQUIPMENT @ 50%

Scale Platform

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UTILITIES @ 50% Scale

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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 COSTS (DCC)

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12,572,593 250,000

130,000 ...

CAPITAL COST

ESTIMATING - Process
Safety Consultant

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PLANT COST

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7 i

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Once individual

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equipment costs are known from either manufacturers' price quotations or estimating charts as discussed in the previous chapter, they can be utilized to form preliminary total plant cost estimates. A suggested sequence for obtaining such estimates is as follows: 1.

Plant Cost Estimates |

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Cost Estimating
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

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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

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

Process Equipment Cost Estimation Final Report Richardson™ 's 4,000 page, Process Plant Construction Cost Estimating Standards (PPCES) is available on

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cost estimating standards
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Manufacturing Facilities,
Solids Processing, Water
Treatment Plants and
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Engineering| Process Plant
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... (PDF) GENERAL
PROCESS PLANT
COST ESTIMATING,

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Kolmetz ... Plant

Cost Estimating

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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

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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).

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

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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

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estimating process steps that should be followed if accurate and credible cost estimates are to be developed.

Appendix B - Cost Estimating and Best Practices.

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