

Chemical Facility Cost Estimate - Summary

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Project Scope:	
Project Name:	Estimate No:
Project Number:	Estimator:
Project Location:	Project Mgr:
Type of Facility:	Approved By:
Date of Estimate:	Accuracy:
New or Revamp Work:	Contingency:
Project Start:	Escalation:
Project Completion:	Estimate Revision & Date:
Remarks Comments:	

WORK BREAKDOWN STRUCTURE	QTY	UoM	\$ MATERIAL U-P	\$ MATERIAL TOTAL	M-H'S	\$ HOURLY RATE	\$ LABOR RATE	\$ OTHER COSTS	\$ TOTAL
Process - Production -	100	Each							12,000,000
Major Equipment (M.E.)									,,
Demolition & Removals	1	Allow							250,000
Relocate existing services	1	Allow							100,000
Site Construction -	15	Acre							250,000
clearing, engineered fill, roads & fencing									
Utilities - electric, water & gas	4,500	LF							430,000
Piling / Caissons	6,500	LF							690,000
Concrete foundations & floors	3,500	CY							1,850,000
Structural Steel & Platforms	250	Tons							700,000
Siding, Roofing & Doors	39,000	SF							450,000
Pre-Engineered Buildings	12,000	SF							650,000
Piping aver 6" dia	50,000	LF							3,900,000
Modules & Pre-Assemblies	4	Each							1,500,000
Electrical	65,000	LF							1,180,000
Instrumentation	250	EA							700,000
Communications / Security / CVTV	1	Allow							200,000
Insulation Equipment & Piping)	39,000	SF							550,000
Fire Protection (Deluge & Hydrants)	10,000	SF							235,000
Painting & Coatings	70,000	SF							350,000
Fireproofing & Refractory	20,000	SF							450,000
Paving - concrete & stone ISBL	37,000	SF							234,000
Field erected tanks	7	Each							660,000
Product Silo's & bagging systems	3	Each							300,000
OSBL Work	1	Allow							750,000
Rail Spur Work	1	Allow							450,000
Freight	1	Allow							700,000
Taxes / Duties on M.E.	1	Allow							150,000
FIELD DIRECT TOTAL COST - CONSTRUCTION (FDTC)									29,679,000
FIELD IN-DIRECT COSTS									
Fringe Benefits									2,950,000
Payroll Burdens									3,250,000
Consumables (Gas bottles, welding rods etc)									400,000

WORK BREAKDOWN STRUCTURE	QTY	UOM	\$ MATERIAL U-P	\$ MATERIAL TOTAL	M-H'S	\$ HOURLY RATE	\$ LABOR RATE	\$ OTHER COSTS	\$ TOTAL
FIELD IN-DIRECT COSTS (CONT)									
Small Tools (under \$100)									200,000
Field Supervision & Expenses	5								1,200,000
Field Supervision Trucks									50,000
Field Establishment									350,000
(Trailers, Toilets)									
Field Support Labor									700,000
(logistics & clean up)									450000
Construction Equipment Rental / Plant Hire									450,000
Heavy Lift Cranes									200,000
(mob & De-mob)									200,000
Scaffolding									350,000
Temporay field utilities									150,000
Taxes on Plant hire,									150,000
consumables									
Insurance & Bonds									150,000
H O Construction Support									350,000
Contractor H. O. overhead									850,000
& admin support (HR & HSE)									
Contractor Fee									400,000
Overtime - Shift work									500,000
Allowance									
Other Costs									500,000
FIELD IN-DIRECT									13,150,000
TOTAL COSTS (FI-DTC)									
CONSTRUCTION COST									55,979,000
DIRECT & IN-DIRECT (D + I)									5 000 000
Detail Design / Engineering									5,000,000
Project Management & Controls									750,000
Procurment - Subcontracts									250,000
& P.O.'s									230,000
Construction Management									1,750,000
including site computers,									_,, 5 =,===
copy machines, FX mail,									
T1 communication line &									
office suppliers									
Technical Consultants &									700,000
Freelancers									
Early studies / FEED /									500,000
Traffic Survey									
Soil testing & NDT									350,000
Permitting Studies / Costs									250,000
Owner Engineering									500,000
Owner Construction Support Travel Costs									250,000 150,000
Initial Fill & Chemicals									300,000
Contingency									7,000,000
Escalation									1,500,000
Start - Up / Commissioning									450,000
Vendor Assistance									250,000
Other Costs									300,000
Spare Parts									500,000
Expense Item Costs									100,000
ENGINEERING / CM / OTHER	1								20,850,000
PROJECT COSTS TOTAL E - CM									
TOTAL INSTALLED COST TIC									76,829,000
COST PER MAJOR									\$768,290
EQUIPMENT / 100 ITEMS									





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(215) 504 9777 www.compassinternational.net sales@compassinternational.net