



## Cost Estimate Summary: Commodity Chemical Production Facility

Project Scope:	
Project Name:	Estimate No:
Project Location:	Estimator:
Type of Facility:	Project Mgr:
Production Capacity:	Approved By:
Date of Estimate:	Accuracy:
New or Revamp Work:	Contingency:
Project Start:	Escalation:
Project Completion:	Estimate Revision & Date:
Estimate Type:	Funding to Date:
EPC Approach:	Commissioning:
Royalties:	Start Up Costs:
Initial Fill:	Spare Parts:
Remarks / Comments:	

DIRECT TRADE DESCRIPTION	QTY	UoM	\$ MATERIAL M-H'S (1) LABOR	\$ LABOR RATE	\$ DIRECT LABOR COST	\$ MATERIALS (2)	\$ SMALL TOOLS & CONSUMABLES	\$ CONSTRUCTION EQUIPMENT (3)	\$ SCAFFOLDING	\$ TOTAL DIRECT COST
Demolition / Removals	1	Lot	6,886	63.78	439,189	477,654	21,002	32,089	26,718	996,652
Site Civil Work	40	AC	8,488	64.44	546,967	256,732	27,077	73,506	-	904,282
Concrete Work	49,270	Cu Yd	476,745	65.22	31,093,309	29,776,541	1,520,817	3,160,819	-	65,551,486
Piling	32,450	LF	32,076	68.44	2,195,281	1,643,887	103,285	216,513	-	4,158,966
Structural Steel	9,050	Ton	136,557	70.94	9,687,354	13,255,487	520,282	1,304,119	666,398	25,433,640
Modules / Pre-Assemblies	4,670	Ton	49,458	59.88	2,961,545	3,887,438	159,749	417,426	200,305	7,626,463
Buildings	18,770	SF	10,887	64.22	699,163	688,965	32,988	73,378	43,657	1,538,151
Pre-Engineered Buildings	22,130	SF	8,022	56.46	452,922	470,556	24,146	42,677	32,168	1,022,470
HVAC / CCTV Systems	1	Lot	2,976	67.95	202,219	278,076	7,291	8,988	11,934	508,508
Major Equipment	139	Each	41,154	71.33	2,935,515	38,554,953	179,020	558,871	165,028	42,393,387
B.G. Piping	4,665	LF	21,776	68.66	1,495,140	6,775,480	51,174	161,796	-	8,483,589
A.G. Piping	105,560	LF	331,886	68.66	22,787,293	23,546,984	1,443,704	3,574,412	1,364,051	52,716,445
Fire Protection	1	Lot	11,776	71.02	836,332	1,456,376	49,695	74,542	48,399	2,465,344
Instrumentation	188	Each	26,523	71.02	1,883,663	2,054,654	102,114	164,708	64,716	4,269,855
Electrical	367,870	LF	63,232	71.33	4,510,339	4,968,954	222,577	512,812	206,136	10,420,817
Insulation Equipment	49,434	SF	16,857	65.77	1,108,685	502,343	51,835	147,836	71,137	1,881,836
Insulation Pipe	47,776	LF	8,434	65.77	554,704	1,023,776	25,935	75,653	35,591	1,715,659
Painting	142,776	SF	17,665	66.11	1,167,833	59,887	54,320	127,541	80,376	1,489,957
Coatngs	12,443	SF	3,344	66.23	221,473	287,776	10,283	15,583	15,215	550,330
Refractory / Fireproofing	5,665	SF	7,165	68.88	493,525	718,776	21,352	40,554	26,296	1,300,502
Rail Spur (S/C)	1	Lot	5,776	69.99	404,262	787,443	16,577	-	-	1,208,282
Other	1	Lot	11,665	68.55	799,636	545,980	30,912	-	-	1,376,528
<b>DIRECT TRADE TOTAL A</b>			<b>1,299,348</b>	<b>67.03</b>	<b>87,476,349</b>	<b>132,018,718</b>	<b>4,676,133</b>	<b>10,783,823</b>	<b>3,058,125</b>	<b>238,013,148</b>

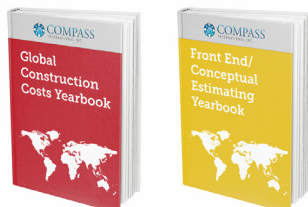
IN-DIRECT TRADE DESCRIPTION	QTY	UoM	INDIRECT PERSONEL M-H'S (4)	\$ LABOR RATE	\$ INDIRECT PERSONEL COST	\$ CONSTRUCTION EQUIPMENT (5)	\$ TEMP SITE FACILITIES (6)	\$SITE MISC EXPENSES (7)	\$ OVERHEAD & PROFIT	\$ TOTAL IN-DIRECT COST
Demolition / Removals	1	Lot	465	68.72	31,943	2,888	24,375	51,845	64,907	175,958
Site Civil Work	40	AC	637	69.27	44,099	6,616	30,357	47,154	58,891	187,116
Concrete Work	49,270	Cu Yd	34,550	70.11	2,422,352	281,334	1,633,953	3,418,865	4,269,041	12,025,545
Piling	32,450	LF	1,844	73.57	135,696	19,486	121,554	216,869	270,853	764,458
Structural Steel	9,050	Ton	10,242	76.26	781,043	117,371	557,507	1,326,237	1,656,366	4,438,524
Modules / Pre-Assemblies	4,670	Ton	3,635	64.37	233,999	7,568	5,776	5,673	496,673	779,690
Buildings	18,770	SF	735	69.04	50,733	6,604	38,804	80,207	100,172	276,520
Pre-Engineered Buildings	22,130	SF	461	60.69	27,996	3,841	25,008	53,317	66,588	176,750
HVAC / CCTV Systems	1	Lot	170	73.05	12,418	809	11,223	26,516	33,117	84,083
Major Equipment	139	Each	2,706	76.68	207,486	73,987	162,921	2,044,564	2,760,869	5,249,827
B.G. Piping	4,665	LF	1,127	73.81	83,177	14,562	82,980	442,377	552,494	1,175,589
A.G. Piping	105,560	LF	15,184	74.05	1,124,356	321,776	1,174,685	2,545,876	3,433,158	8,599,852
Fire Protection	1	Lot	677	76.35	51,696	6,709	46,410	128,555	160,556	393,925
Instrumentation	188	Each	1,558	76.35	118,965	14,824	104,543	222,652	278,074	739,058
Electrical	367,870	LF	3,539	76.68	271,401	46,153	265,456	543,394	678,656	1,805,059
Insulation Equipment	49,434	SF	940	70.70	66,445	13,305	61,532	98,128	122,555	361,965
Insulation Pipe	47,776	LF	485	70.70	34,288	6,809	30,786	89,463	111,732	273,078
Painting	142,776	SF	932	71.07	66,223	11,479	64,815	77,694	97,033	317,244
Coatngs	12,443	SF	176	71.20	12,559	1,402	11,835	28,697	35,840	90,334
Refractory / Fireproofing	5,665	SF	415	74.05	30,745	3,650	27,391	67,815	84,695	214,295
Rail Spur (S/C)	1	Lot	322	75.24	24,228	-	23,348	63,006	78,689	189,271
Other	1	Lot	787	73.69	58,024	-	28,427	71,779	89,646	247,876
<b>IN-DIRECT TRADE DESCRIPTION TOTAL B</b>			<b>81,588</b>	<b>72.07</b>	<b>5,889,871</b>	<b>991,172</b>	<b>4,533,686</b>	<b>11,650,682</b>	<b>15,500,606</b>	<b>38,566,017</b>
<b>TOTAL DIRECT &amp; IN-DIRECT A + B</b>					<b>93,366,220</b>	<b>133,009,890</b>	<b>9,209,819</b>	<b>22,434,505</b>	<b>18,558,731</b>	<b>276,579,165</b>

#### ITEMS INCLUDED IN ABOVE:

- All site workers Skilled & non-skilled, including Gangers, Charge Hands & Working Forman
- All Permanent Materials & Contractor / Owner provided major equipment
- Includes all construction equipment (Cranes / heavy lift cranes, operators & banksmen)
- Includes Contractors Supervision, non-working Foremen, Safety, Security, Material Storage & Distribution, Clean up
- Includes maintenance, repairs, mob-demob & fueling
- Includes, contractors offices, trailers, furniture, warehouses, toilets, communications, temp office equipment & supplies
- Includes Taxes, non-permanent miscellaneous materials, freight costs, soil / NDT testing, travel costs, site vans / vehicles, drug testing, TWIC cards, safety equipment, permits & security fencing

#### ITEMS EXCLUDED:

- Owners Staff & Construction Management Team / Oversight of Contractors work
- Site Offices for Owners CM / Staff
- Initial fill & Chemicals
- Commissioning
- FEED Study & Traffic Survey
- Contingency



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