



Estimate Date
09/20/2005

TO CUSTOMER

ESTIMATE

PROPOSAL FROM
Chesapeake Marine Industries 927 West Street Annapolis MD 21401 USA

Contract SWATH - SWATH Cost Models
Project SWC101 - Ship #1

Cost Item #	Quantity	UoM	Description	Unit Price	Extended Cost
Account 100			Hull		
100.1	170.66	MTON	Lower Hulls	10,807.96	1,844,485.92
100.2	157.57	MTON	Struts	5,725.29	902,134.62
100.3	124.40	MTON	Sponsons	6,826.74	849,246.48
100.4	270.59	MTON	Bridge Deck	6,276.02	1,698,228.69
100.5	74.81	MTON	Superstructure	6,962.22	520,843.78
100.6	24.18	MTON	Foundations	8,333.62	201,506.88
100.7	12.08	MTON	Bulwarks	9,800.64	118,391.74
100.8	18.46	MTON	Masts & Spars	6,442.60	118,930.32
100.9	19.65	MTON	Ramps	2,809.27	55,202.12

Sample Cost Estimate Report

PERCEPTION - Total Shipyard Management

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C P G A Z U

Cost Item Information for the Estimating Environment

Project	Work Center	SWBS Acct	Description	Quantity	UoM	Total Labor Hours	Direct Material Cost	Labor Uni
SWC101	SY	100	Lower Hulls	170.66	MTON	33,585.65	106,491.84	
SWC101	SY	100	Struts	157.57	MTON	15,309.97	98,323.68	
SWC101	SY	100	Sponsons	124.40	MTON	14,773.08	77,625.60	
SWC101	SY	100	Bridge Deck	270.59	MTON	29,212.60	168,848.16	
SWC101	SY	100	Superstructure	74.81	MTON	9,082.72	46,681.44	
SWC101	SY	100	Foundations	24.18	MTON	3,585.75	15,088.32	
SWC101	SY	100	Bulwarks	12.08	MTON	2,138.79	7,537.92	
SWC101	SY	100	Masts & Spars	18.46	MTON	2,053.20	11,519.04	
SWC101	SY	100	Ramps	19.65	MTON	786.00	12,261.60	
SWC101	SY	200	Diesel Direct Drive	2,720.00	KW	2,040.00	1,079,102.34	
SWC101	SY	300	Appliances- boxes, switches and receptacles	5,613.17	CUNO(M)	0.00	776.30	
SWC101	SY	300	Auto dial telephones	5,613.17	CUNO(M)	0.00	739.25	
SWC101	SY	300	Battery chargers	5,613.17	CUNO(M)	0.00	55.57	
SWC101	SY	300	Bracket fans	5,613.17	CUNO(M)	0.00	64.55	
SWC101	SY	300	Cable	5,613.17	CUNO(M)	0.00	22,294.39	
SWC101	SY	300	Disconnect switches	5,613.17	CUNO(M)	0.00	46.03	
SWC101	SY	300	Emergency stop stations	5,613.17	CUNO(M)	0.00	29.75	
SWC101	SY	300	Fire screen door magnets	5,613.17	CUNO(M)	0.00	74.09	
SWC101	SY	300	Fixtures	5,613.17	CUNO(M)	0.00	2,495.62	
SWC101	SY	400	Electronics Installation Labor Hours	1.00	Shipset	4,000.00	0.00	
SWC101	SY	400	Gyro Compass/Auto Pilot	1.00	Shipset	0.00	71,884.80	
SWC101	SY	400	Radar Collision Avoidance System	1.00	Shipset	0.00	112,320.00	
SWC101	SY	400	VHF Radio Telephone Systems	1.00	Shipset	0.00	28,080.00	
SWC101	SY	400	Anemometer Systems	1.00	Shipset	0.00	17,297.28	
SWC101	SY	400	DGPS/Satellite Navigator	1.00	Shipset	0.00	16,286.40	
SWC101	SY	400	Weather Facsimile	1.00	Shipset	0.00	3,931.20	
SWC101	SY	400	Doppler Speed Log	1.00	Shipset	0.00	12,916.80	

Sample List of Cost Estimate Details

Cost Item Detail Information for the Estimating Environment

Contract Project Center Item

Report Description

Description

Group	Account	Zone	Outfit Zone / Grand Block	Unit/ Block	Assembly	Sub Assembly	Mfg Part
<input type="text" value="1"/>	<input type="text" value="100"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Department	Process	Trade	COA Superv	IPT	Rate Year
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2004"/>

	Labor	Material	SubCon	Travel	Start Date	End Date
Hours	<input type="text" value="33,585.65"/>	<input type="text"/>	<input type="text" value="0.00"/>	<input type="text"/>	<input type="text" value="00/00/0000"/>	<input type="text" value="00/00/0000"/>
Cost	<input type="text" value="623,013.81"/>	<input type="text" value="106,491.84"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	Quantity <input type="text" value="170.66"/>	UoM <input type="text" value="Metric Ton"/>
Profit	<input type="text" value="155,753.45"/>	<input type="text" value="11,927.09"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	Mat'l Rate/UoM <input type="text" value="624.00"/>	Labor Rate/UoM <input type="text" value="196.80"/>
G&A	<input type="text" value="0.00"/>	<input type="text" value="12,779.02"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	Weight <input type="text" value="0.00"/>	Volume <input type="text" value="0"/>
Overhead	<input type="text" value="934,520.71"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>		
Local Tax	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>		
Fed Tax	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>	<input type="text" value="0.00"/>		

Stage CLIN SWLIN

Work Type Paragraph

Sample Ship Component Cost Estimate

Package Detail Information for the Estimating Environment											
Package		Package Items									
	Package ID	Package Item ID	Description	Quantity	UoM	Labor Hours	Material Cost	Sub Hours	Travel Cost	Work Center	SV
1	ELPKG-COMM	01	Anemometer Systems	1.00	SHIPSET	0.00	\$18,689.38	0.00	\$0.00	0	
2	ELPKG-COMM	02	DGPS/Satellite Navigator	1.00	SHIPSET	0.00	\$17,597.14	0.00	\$0.00	0	
3	ELPKG-COMM	03	Doppler Speed Log	1.00	SHIPSET	0.00	\$13,956.35	0.00	\$0.00	0	
4	ELPKG-COMM	04	Echo Depth Sounder	1.00	SHIPSET	0.00	\$3,155.35	0.00	\$0.00	0	
5	ELPKG-COMM	05	Electronics Installation Labor	1.00	SHIPSET	4,000.00	\$0.00	0.00	\$0.00	0	
6	ELPKG-COMM	06	Gyro Compass/Auto Pilot	1.00	SHIPSET	0.00	\$77,670.14	0.00	\$0.00	0	
7	ELPKG-COMM	07	Integrated Navigation System	1.00	SHIPSET	0.00	\$518,448.21	0.00	\$0.00	0	
8	ELPKG-COMM	08	Radar Collision Avoidance Sys	1.00	SHIPSET	0.00	\$121,359.60	0.00	\$0.00	0	
9	ELPKG-COMM	09	RDF system	1.00	SHIPSET	0.00	\$18,689.38	0.00	\$0.00	0	
10	ELPKG-COMM	10	VHF Radio Telephone System	1.00	SHIPSET	0.00	\$30,339.90	0.00	\$0.00	0	
11	ELPKG-COMM	11	Weather Facsimile	1.00	SHIPSET	0.00	\$4,247.59	0.00	\$0.00	0	

Standard Cost Estimate Package

Pipe CER Information for the Estimating Environment								
CER ID	Description	UoM	Standard Labor CER	Material CER	Productivity Factor	Factored Labor CER		
1	CPI-BARG-1010	Cargo piping & valves - fuel oil barge	BBL	0.0563	2.0150	1.0000	0.0563	12/0
2	CPI-BARG-1015	Cargo piping & valves - fuel oil barge	CUM	0.2587	8.9120	1.0000	0.2587	12/0
3	CPI-BARG-1020	Cargo piping & valves - fuel oil barge	CUNO	0.2587	8.4876	1.0000	0.2587	12/0
4	FPI-BARG-1010	Fuel system piping & valves - fuel oil barge	BBL	0.0014	0.0162	1.0000	0.0014	12/0
5	FPI-BARG-1015	Fuel system piping & valves - fuel oil barge	CUM	0.0063	0.0719	1.0000	0.0063	12/0
6	FPI-BARG-1020	Fuel system piping & valves - fuel oil barge	CUNO	0.0063	0.0685	1.0000	0.0063	12/0
7	PE-CREW-100	Distiller (drinking water) Equipment	PERS	3.1250	1998.4909	1.0000	3.1250	02/2
8	PI-CN70/30-100	4 In. 70/30 Copper/Nickel Pipe	M	0.0000	125.1557	1.0000	0.0000	12/0
9	PI-CN70/30-125	5 In. 70/30 Copper/Nickel Pipe	M	0.0000	185.7429	1.0000	0.0000	12/0
10	PI-CN70/30-150	6 In. 70/30 Copper/Nickel Pipe	M	0.0000	236.3896	1.0000	0.0000	12/0
11	PI-CN70/30-200	8 In. 70/30 Copper/Nickel Pipe	M	0.0000	323.6337	1.0000	0.0000	12/0
12	PI-CN70/30-40	1.5 In. 70/30 Copper/Nickel Pipe	M	0.0000	33.0499	1.0000	0.0000	12/0
13	PI-CN70/30-50	2 In. 70/30 Copper/Nickel Pipe	M	0.0000	51.6676	1.0000	0.0000	12/0
14	PI-CN70/30-80	3 In. 70/30 Copper/Nickel Pipe	M	0.0000	92.0803	1.0000	0.0000	12/0
15	PI-CN90/10-100	4 In. 90/10 Copper/Nickel Pipe	M	0.0000	81.1884	1.0000	0.0000	12/0
16	PI-CN90/10-125	5 In. 90/10 Copper/Nickel Pipe	M	0.0000	133.7946	1.0000	0.0000	12/0
17	PI-CN90/10-150	6 In. 90/10 Copper/Nickel Pipe	M	0.0000	154.3461	1.0000	0.0000	12/0
18	PI-CN90/10-200	8 In. 90/10 Copper/Nickel Pipe	M	0.0000	242.3743	1.0000	0.0000	12/0
19	PI-CN90/10-40	1.5 In. 90/10 Copper/Nickel Pipe	M	0.0000	21.4569	1.0000	0.0000	12/0
20	PI-CN90/10-50	2 In. 90/10 Copper/Nickel Pipe	M	0.0000	30.7847	1.0000	0.0000	12/0
21	PI-CN90/10-80	3 In. 90/10 Copper/Nickel Pipe	M	0.0000	60.4775	1.0000	0.0000	12/0
22	PI-CREW-100	Plumbing & scuppers (/Crew)	PERS	450.0000	12480.0000	1.0000	450.0000	02/1
23	PI-CREW-101	Plumbing & scuppers (/Off.) - Military Officers	PERS	450.0000	12480.0000	1.0000	450.0000	02/2
24	PI-CREW-102	Plumbing & scuppers (/NCO) - Military NCO	PERS	382.5000	10608.0000	1.0000	382.5000	02/2
25	PI-CREW-105	Plumbing & scuppers (/Crew) - Military DF - 2	PERS	112.5000	3120.0000	1.0000	112.5000	02/1
26	PI-CREW-110	Heating & air conditioning piping (/Crew)	PERS	83.0000	5616.0000	1.0000	83.0000	02/1
27	PI-CREW-111	Heating & air conditioning piping (/Off.) - Milit	PERS	83.0000	5616.0000	1.0000	83.0000	02/2
28	PI-CREW-112	Heating & air conditioning piping (/NCO) - Mil	PERS	70.5500	4773.6000	1.0000	70.5500	02/2
29	PI-CREW-115	Heating & air conditioning piping (/Crew) - Mil	PERS	41.5000	2808.0000	1.0000	41.5000	02/1
30	PI-CREW-117	Fresh Water Plumbing & Sewerage person	PERS	261.9800	7150.2358	1.0000	261.9800	02/2

Sample Cost Estimate Data Libraries