

LG&E - KU- Ghent Common rev. B

B&V PROJECT #: 168908
 PROJECT ESTIMATOR: Ron Fields
 PROJECT MANAGER: Tim Hillman
 PURPOSE OF ESTIMATE: Budgetary
 ESTIMATE DATE: April-11

LOCATION: Carroll County, KY
 PLANT TYPE: PC Fired Boiler
 CLIENT: LG&E - KU
 PARTNER: N/A
 CURRENCY: US Dollars

BLACK AND VEATCH CONFIDENTIAL AND PROPRIETARY INFORMATION

Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other	

ESTIMATE SUMMARY

Purchase Contracts:

63.0000	Electrical - Reserve Switchgear , MCC's, Raceway	\$100,000	\$2,876,090	\$0	0	\$0	\$2,976,090	12.64%
63.3603	Reserve Switchgear and MCCs	\$165,000	\$0	\$0	0	\$500,000	\$665,000	2.82%
63.3802	Reserve Aux Transformers	\$2,128,000	\$0	\$0	0	\$0	\$2,128,000	9.04%
64.0000	Control - Reserve I/O points	\$66,000	\$0	\$0	0	\$0	\$66,000	0.28%
Subtotal Purchase Contracts:		\$2,459,000	\$2,876,090	\$0	0	\$500,000	\$5,835,090	24.78%

Construction Contracts:

71.0401	Civil / Structural Construction - Cast in-place Piling	\$0	\$0	\$0	0	\$49,000	\$49,000	0.21%
71.0403	Civil / Structural Construction - Sub-Structures	\$0	\$138,465	\$418,707	7,464	\$18,200	\$575,371	2.44%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$0	0	\$1,121,000	\$1,121,000	4.76%
73.0000	Electrical / Control Construction	\$0	\$0	\$4,697,536	75,185	\$0	\$4,697,536	19.95%
77.0000	Mechanical Construction	\$0	\$0	\$0	0	\$0	\$0	0.00%
78.0000	Service Contracts & Construction Indirects	\$0	\$609,719	\$655,883	14,108	\$2,231,742	\$3,497,345	14.85%
Subtotal Construction Contracts:		\$0	\$748,184	\$5,772,126	96,756	\$3,419,942	\$9,940,253	42.22%

Total Direct Costs		\$2,459,000	\$3,624,274	\$5,772,126	96,756	\$3,919,942	\$15,775,343	67.00%
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Indirect Costs:

99.1100	Engineering Costs (Includes G&A & Fee)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	6.49%
99.1200	EPC Construction Management (Includes G&A & Fee)	\$0	\$11,689	\$955,569	21,016	\$1,352,168	\$2,319,426	9.85%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$257,838	\$257,838	1.10%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$110,502	\$110,502	0.47%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$12,023	\$0	0	\$0	\$12,023	0.05%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$2,000,402	\$2,000,402	8.50%
99.2600	EPC Profit	\$0	\$0	\$0	0	\$1,540,000	\$1,540,000	6.54%
Total Indirect Costs		\$0	\$23,712	\$1,570,569	36,016	\$6,174,800	\$7,769,081	33.00%

Total Overnight (April 2011) EPC Capital Costs:		\$2,459,000	\$3,647,986	\$7,342,695	132,772	\$10,094,742	\$23,544,424	100.00%
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		\$0	\$0	\$0	0	\$0	\$0	0.00%
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Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other	

ESTIMATE SUMMARY

Purchase Contracts:

61.0000	Civil / Structural	\$0	\$0	\$0	0	\$0	\$0	0.00%
62.0000	Mechanical	\$0	\$0	\$0	0	\$0	\$0	0.00%
63.0000	Electrical	\$2,393,000	\$2,876,090	\$0	0	\$500,000	\$5,769,090	24.50%
64.0000	Control	\$66,000	\$0	\$0	0	\$0	\$66,000	0.28%
65.0000	Chemical	\$0	\$0	\$0	0	\$0	\$0	0.00%

Subtotal Purchase Contracts: \$2,459,000 \$2,876,090 \$0 0 \$500,000 \$5,835,090 24.78%

Construction Contracts:

71.0402	Civil / Structural Construction -Substructures	\$0	\$138,465	\$418,707	7,464	\$67,200	\$624,371	2.65%
71.0403	Civil / Structural Construction -Superstructures	\$0	\$0	\$0	0	\$0	\$0	0.00%
72.0000	Mechanical / Chemical Construction	\$0	\$0	\$0	0	\$1,121,000	\$1,121,000	4.76%
73.0000	Electrical / Control Construction	\$0	\$0	\$4,697,536	75,185	\$0	\$4,697,536	19.95%
78.0000	Service Contracts & Construction Indirects	\$0	\$609,719	\$655,883	14,108	\$2,231,742	\$3,497,345	14.85%

Subtotal Construction Contracts: \$0 \$748,184 \$5,772,126 96,756 \$3,419,942 \$9,940,253 42.22%

Total Direct Costs \$2,459,000 \$3,624,274 \$5,772,126 96,756 \$3,919,942 \$15,775,343 67.00%

Indirect Costs:

99.1100	Engineering Costs (With G&A)	\$0	\$0	\$615,000	15,000	\$913,890	\$1,528,890	6.49%
99.1200	Construction Management (With G&A)	\$0	\$11,689	\$955,569	21,016	\$1,352,168	\$2,319,426	9.85%
99.1500	Project Insurance	\$0	\$0	\$0	0	\$257,838	\$257,838	1.10%
99.1600	Performance Bond	\$0	\$0	\$0	0	\$110,502	\$110,502	0.47%
99.1900	Sales Tax 6% of Indirect materials and Services	\$0	\$12,023	\$0	0	\$0	\$12,023	0.05%
99.2500	Project Contingency 10%	\$0	\$0	\$0	0	\$2,000,402	\$2,000,402	8.50%
99.2600	EPC profit	\$0	\$0	\$0	0	\$1,540,000	\$1,540,000	6.54%

Total Indirect Costs \$0 \$23,712 \$1,570,569 36,016 \$6,174,800 \$7,769,081 33.00%

Total Overnight (April 2011) EPC Capital Costs: \$2,459,000 \$3,647,986 \$7,342,695 132,772 \$10,094,742 \$23,544,424 100.00%

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Contract Number	Description	PROJECT - TOTAL COSTS					% OF TOTAL C.V.	
		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other		TOTAL \$
Civil / Structural Purchase Contracts:								
	Subtotal - Civil / Structural Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
Mechanical Purchase Contracts:								
	Subtotal - Mechanical Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
Electrical Purchase Contracts:								
63.0801	Cable - 8-15KV Power	\$0	\$353,280	\$0	0	\$0	\$353,280	1.50%
63.0802	Cable and Raceway	\$0	\$4,250	\$0	0	\$0	\$4,250	0.02%
63.1202	Cable Bus	\$0	\$2,390,560	\$0	0	\$0	\$2,390,560	10.15%
63.3600	Switchgear and Motor Control Assemblies	\$100,000	\$0	\$0	0	\$0	\$100,000	0.42%
63.3603	Switchgear & MCCs	\$165,000	\$0	\$0	0	\$500,000	\$665,000	2.82%
63.3802	SUS Transformers	\$2,128,000	\$0	\$0	0	\$0	\$2,128,000	9.04%
63.5020	Raceway - Duct Bank Materials	\$0	\$128,000	\$0	0	\$0	\$128,000	0.54%
	Subtotal - Electrical Purchase Contracts:	\$2,393,000	\$2,876,090	\$0	0	\$500,000	\$5,769,090	24.50%
Control Purchase Contracts:								
64.0202	Common Reser Common Reserve I/O Points	\$66,000	\$0	\$0	0	\$0	\$66,000	0.28%
	Subtotal - Control Purchase Contracts:	\$66,000	\$0	\$0	0	\$0	\$66,000	0.28%
Chemical Purchase Contracts:								
	Subtotal - Chemical Purchase Contracts:	\$0	\$0	\$0	0	\$0	\$0	0.00%
	Subtotal Purchase Contracts:	\$2,459,000	\$2,876,090	\$0	0	\$500,000	\$5,835,090	24.78%

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		Engr Equip Material \$	Commodities Material \$	Labor \$	Manhours	Other		TOTAL \$
Civil / Structural Construction Contracts:								
71.0401	Cast In place Piling	\$0	\$0	\$0	0	\$0	\$49,000	0.21%
71.0402	General Construction - Substructures	\$0	\$138,465	\$418,707	7,464	\$18,200	\$575,371	2.44%
71.0822	Fly Ash Silo	\$0	\$0	\$0	0	\$0	\$0	0.00%
Subtotal - Civil / Structural Construction Contracts:		\$0	\$138,465	\$418,707	7,464	\$67,200	\$624,371	2.65%
Mechanical Construction Contracts:								
72.0800	Fire Protection & Detection Systems	\$0	\$0	\$0	0	\$0	\$1,121,000	4.76%
Subtotal - Mechanical Construction Contracts:		\$0	\$0	\$0	0	\$1,121,000	\$1,121,000	4.76%
Electrical / Control Construction Contracts:								
73.0201	Electrical Equipment Erection	\$0	\$0	\$0	0	\$0	\$4,673,544	19.85%
Subtotal - Electrical / Control Construction Contracts:		\$0	\$0	\$4,697,536	75,185	\$0	\$4,697,536	19.95%
Construction Indirects & Service Contracts:								
78.0000	Service Contracts & Construction Indirects	\$0	\$0	\$0	0	\$0	\$3,456,245	14.68%
78.4000	Warranty	\$0	\$609,719	\$655,883	14,108	\$2,190,642	\$3,456,245	14.68%
Subtotal - Construction Indirects & Service Contracts:		\$0	\$609,719	\$655,883	14,108	\$2,231,742	\$3,497,345	14.85%
Subtotal - Construction Costs:		\$0	\$748,184	\$5,772,126	96,756	\$3,419,942	\$9,940,253	42.22%
Subtotal - Direct Costs:		\$2,459,000	\$3,624,274	\$5,772,126	96,756	\$3,919,942	\$15,775,343	67.00%
Indirect Costs:								
99.1100	Engineering Costs (Includes G&A & Fee)	\$0	\$0	\$0	0	\$0	\$1,528,890	6.49%
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