

(1,000's)

410, 430, 450 & 460

**Project Name:** Barinas I Power Plant

Customer: PDVSA

Location: Barinas, Venn

**Bid Due Date:**

Date: 26-Oct-11

Quote No: T 1003

**Est By:** RHL-civil by Derwick-as

Item No.	Description	Mfgr.	Location	Qty	Unit Price	Total Price	Unit Frt Pr	Frt Price	Hours (day)	Qty (men)	Qty (days)	Qty (mhrs)	Rate (hour)	Total Labor
1	Power Island Equipment						3.0%		10					
2	Gas Turbine Generator			2			-		10	9	35	6,300	58	365,520
3	HRSG			-			-		10	-	-	-	58	-
4	SCR			-			-		10	-	-	-	58	-
5	STG			-			-		10	-	-	-	58	-
6	STG Cooling Tower			-			-		10	-	-	-	58	
7	Emergency Generator			1			-		10	4	5	200	58	11,604
8	Water Treatment Package			1			-		10	4	7	280	58	16,245
9												-	58	-
10	15KV												58	
11	Generator Breaker(s)			2	155,000	310,000	9,300	18,600	10	4	5	400	58	23,208
12	Distribution Breaker(s)			2	60,000	120,000	3,600	7,200	10	4	4	320	58	18,566
13	Fused Disconnect(s)			-	-	-	-	-	10	3	4	-	58	-
14	Bus Duct Cable			2	50,000	100,000	3,000	6,000	10	3	4	240	58	13,925
15				-	-	-	-	-	10	2	4	-	58	-
16				-	-	-	-	-	10	2	6	-	58	-
17	5KV												58	
18	Distribution Breaker(s)			-	-	-	-	-	10	2	5	-	58	-
19	Fused Disconnect(s)			-	-	-	-	-	10	2	6	-	58	-
20	MCC's			-	-	-	-	-	10	1	1	-	58	-
21				-	-	-	-	-	10	2	6	-	58	-
22				-	-	-	-	-	10	2	5	-	58	-
23	600V												58	
24	Distribution Panel(s)			1	105,000	105,000	3,150	3,150	10	2	5	100	58	5,802
25	GTG MCC(s)			-	-	-	-	-	10	2	5	-	58	-
26	HRSG MCC(s)			-	-	-	-	-	10	2	4	-	58	-
27	STG MCC(s)			-	-	-	-	-	10	2	2	-	58	-
28	BOP MCC(s)			1	25,000	25,000	750	750	10	2	3	60	58	3,481
29	Water Treatment MCC(s)			1	10,000	10,000	300	300	10	2	2	40	58	2,321
30				-	-	-	-	-	10	2	8	-	58	-
31				-	-	-	-	-	10	2	2	-	58	-
32	Aux Transformer(s)												58	
33	15/5KV _____ MVA			-	-	-	-	-	10	2	5	-	58	-
34	15/600V _____ MVA			2	75,000	150,000	5,000	10,000	10	3	5	300	58	17,406
35	600/120/208V _____ KVA			1	5,000	5,000	150	150	10	3	3	90	58	5,222
36				-	-	-	-	-	10	-	-	-	58	-
37				-	-	-	-	-	10	-	-	-	58	-
38	Area Lighting												58	
39	Poles _____ High			8	1,500	12,000	360	2,880	10	2	1	160	58	9,283
40	Floodlights _____ Watts			32	600	19,200	576	18,432	10	2	0.2	128	58	7,426
41				-	-	-	-	-	10	-	-	-	58	-
42				-	-	-	-	-	10	4	60	-	58	-
43	Other Systems												58	

**ELECTRICAL EQUIPMENT and Labor**  
(1,000's)

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44	UPS	-	-	-	-	-	10	4	10	-	58	-
45	DC	-	-	-	-	-	10	-	-	-	58	-
46	Cathodic Protection	2	20,000	40,000	1,200	2,400	10	4	8	640	58	37,132
47	Lightning Protection	2	15,000	30,000	900	1,800	10	4	6	480	58	27,849
48								-	-	-	58	-
49											58	
50	Temporary Electric	1	40,000	40,000	1,200	1,200	10	2	45	900	58	52,217
51	Electrical Control Module	-	-	-	-	-	10	-	-	-	58	-
52			-	-	-	-	10	-	-	-	58	-
53			-	-	-	-	10	-	-	-	58	-
54			-	-	-	-	10	-	-	-	58	-
55	Total Cost of Electrical Equipment			966		73				10,638		617
										Productivity 1.80	19,148	58
												1,111

56	Cable Tray, Conduit, & Cable	1	900,000	900,000	27,000	27,000	10	12	130	15,600	58	905,098
57	Total Cost of Electrical Equipment			900		27				15,600		905
58							Total Manhours			15,600		
59							Times Prod Factor		1.80	28,080	58	1,629

Price per hour based with all labor burdens as follows:

Local Hrly Cost	30.00
Fringes	2.50
Small Tools	1.50
Labor Burden 35%	10.50
	44.50
Contr G&A 8%	3.56
Contr Mark up 15%	6.68
	54.74
45 Hour Work Week =	58.02
Work Week Hours Multiplier	
45 50 60	
1.06 1.1 1.17	