

**Metro**Los Angeles County
Metropolitan Transportation AuthorityOne Gateway Plaza
Los Angeles, CA 90012-2952213.922.2000 Tel
metro.net**SYSTEMS SAFETY AND OPERATIONS COMMITTEE
May 17, 2012****SUBJECT: TRACTION POWER SUBSTATIONS FOR EXPOSITION LINE PHASE 2
AND GOLD LINE FOOTHILL EXTENSION****ACTION: AWARD CONTRACT FOR TRACTION POWER SUBSTATIONS****RECOMMENDATION**

Authorize the Chief Executive Officer to award a firm fixed price contract under Bid No. OP39602869 with Balfour Beatty Rail Inc., the lowest responsive and responsible bidder for 18 Traction Power Substations (TPSS) for an amount not-to-exceed \$19,176,024.01 inclusive of sales tax and storage fees.

ISSUE

Traction Power Substations are a vital part of the rail system. The stations are placed one mile apart along the alignment. They convert high voltage electricity (alternate current) for the Light Rail Vehicle (LRV) catenary cable power into the necessary voltage (direct current) required to run the LRV cars.

As agreed to in the Memorandums of Understanding with the Construction Authorities, Traction Power Substations for the Foothill Extension and Phase 2 of the Expo line will be purchased by Metro. Funds were identified and reserved to procure and supply substations to the construction authorities' contractors. Procurement of substations under a combined contract provides economies of scale and uniformity of equipment between rail lines. Standard sub station design and construction will benefit Metro with reduced life-cycle costs for training, maintenance and replacement parts.

DISCUSSION

On January 1, 2012, the Board approved a Master Cooperative Agreement and Funding Agreement with the Foothill Construction Authority that includes Traction Power Substations as items Metro will supply. There are similar requirements in the Funding Agreement Term Sheet for Phase 2 of the Exposition Line. Procurement of substations under a unified contract provides economies of scale and uniformity of equipment between rail lines.

This contract is for the designing, manufacturing, testing and delivery of 18 Traction Power Substations, including spare parts and special tools. The Contract also includes a schedule of storage fees in the event that one or both projects are not ready to receive substations when they have been manufactured.

DETERMINATION OF SAFETY IMPACT

Approval of this item will ensure uniformity of equipment manufacture, design and configuration across projects, thereby improving the safety of maintenance through consistency of operation.

FINANCIAL IMPACT

The funding of \$1,134,162 for this project is included in the FY12 budget in cost center 3920, Wayside Systems, under project 860301, EXPO Blvd. LRT Construction Phase II, account 53102 Acquisition of Equipment and in cost center 8510, Construction Contracts/Procurement, under project 860200, Gold Line Foothill Extension, account 50316 Services, Prof and Tech Service.

Since this is a multi-year contract, the project manager and Executive Officer, Wayside Systems will be accountable for budgeting the cost in future years.

Impact to Budget

The funding for this acquisition will come from a combination of federal and local funds eligible for rail operating and capital.

ALTERNATIVES CONSIDERED

This procurement could be rejected and the funds for substation procurement transferred back to the two Construction Authorities. However, the time lost in solicitation, bid and selection would be lost and may impact the opening date for these projects, or result in higher cost due to accelerated manufacture to make up for lost time.

NEXT STEPS


Following execution of this contract, the vendor will commence manufacturing, with deliveries scheduled to commence in June 2013.

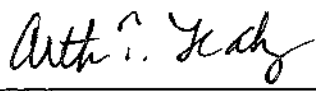
ATTACHMENTS

- A. Procurement Summary
- B. Bid Tabulation

Prepared by: Michael J. Harris-Gifford, Executive Officer Wayside Systems


Michelle Lopes Caldwell
Chief Administrative Services Officer


Frank Alejandro
Chief Operations Officer


Arthur T. Leahy
Chief Executive Officer

PROCUREMENT SUMMARY

Traction Power Substations for Expo and Gold Line

1.	Contract Number: OP39602869	
2.	Recommended Vendor: Balfour Beatty Rail, Inc	
3.	Type of Procurement (check one): <input checked="" type="checkbox"/> IFB <input type="checkbox"/> RFP <input type="checkbox"/> RFP-A&E <input type="checkbox"/> Non-Competitive <input type="checkbox"/> Modification <input type="checkbox"/> Task Order	
4.	Procurement Dates:	
	A. Issued: February 1, 2012	
	B. Advertised/Publicized: February 2, 2012	
	C. Pre-proposal/Pre-Bid Conference: February 16, 2012	
	D. Proposals/Bids Due: Step 1 (Technical Bids) March 12, 2012 and Step 2 (Price Bids) March 28, 2012	
	E. Pre-Qualification Completed: March 30, 2012	
	F. Conflict of Interest Form Submitted to Ethics: March 29, 2012	
	G. Protest Period End Date: May 22, 2012	
5.	Solicitations Picked up/Downloaded: 40	Bids/Proposals Received: 3
6.	Contract Administrator: Lily Lopez	Telephone Number: 213-922-4639
7.	Project Manager: Michael Harris Gifford	Telephone Number: 213-922-3250

A. Procurement Background

This Board action is for a Two-Step Invitation for Bid (IFB), technically acceptable and lowest-responsive bid procurement issued in support of Wayside Systems to acquire up to eighteen standardized Traction Power Sub-Stations (TPSS) for Expo II and Foothill.

The IFB was issued in accordance with Metro's Acquisition Policy and the contract type is firm fixed price.

Three amendments were issued during the solicitation phase of this IFB;

- Amendment No. 1 issued on February 17, 2012 clarified revisions to the performance specification and provided responses to questions;
- Amendment No. 2 issued on February 22, 2012 clarified critical due dates, revised the performance specification and provided responses to questions; and,
- Amendment No. 3 issued February 24, 2012 clarified revisions to the performance specification and provided responses to questions.

A pre-bid conference was held on February 16, 2012. A total of three firms attended the pre-bid conference, and eight questions were asked.

A total of four technical bids were received under Step One on March 12, 2012. All Step One technical bids were evaluated, and only firms found to be technical acceptable were invited to submit Step Two – Price Bids. On March 28, 2012, a total of three price bids were received under Step Two.

B. Evaluation of Proposals/Bids

A total of four bidders responded to this solicitation. A Source Selection Committee consisting of two staff members from Wayside Systems and one from Systems Engineering was convened and conducted a comprehensive technical and price evaluation of the bids received.

The bids were evaluated on a pass/fail evaluation criteria based on the minimum qualification requirements defined in the IFB. The evaluation criteria is appropriate and consistent with criteria developed for other, similar equipment procurements.

Of the four technical bids received, three were determined to be technically acceptable. The three firms that were deemed technically acceptable are listed below in alphabetical order:

1. Balfour Beatty Rail, Inc.
2. Powell Electrical Systems, Inc.
3. Siemens Industry, Inc.

On March 16, 2012, firms found to be technically qualified were formally invited to submit Step Two pricing on March 28, 2012.

Qualifications Summary of Firms Deemed Technically Acceptable:

Balfour Beatty Rail, Inc:

Balfour Beatty Rail, Inc (BBRI) is a rail infrastructure contractor specializing in construction and maintenance services for the public and private railroad markets. BBRI's clients are Class 1 and regional/short line railroads, industrial railroads, ports and rail transit authorities. BBRI is part of Balfour Beatty, a global engineering, construction, services and investment organization headquartered in London, England specializing in large infrastructure and building programs. Balfour Beatty was founded in 1909 and is publicly traded on the London Stock Exchange (BBY.L). BBRI is headquartered in Atlanta, Georgia and has several locations in the US including a division office in Los Angeles, California.

BBRI has previously contracted with Metro, and has provided satisfactory performances. In addition to Metro, BBRI has had contracts with Denver Transit Contractors, Elcon Corporation, City of Tucson, and City of Seattle.

Powell Electrical Systems, Inc:

Founded in 1947, Powell Industries, Inc. designs, manufactures and packages equipment and systems for the distribution, control, generation and management of electrical energy and other dynamic processes. Headquartered in Houston, Texas, Powell serves large industrial customers such as oil and gas producers, refineries, petrochemical plants, pulp and paper mills, transportation facilities, and public and private utilities.

Powell has previously contracted with Metro, and has provided satisfactory performances. In addition to Metro, Powell has had contracts with Long Island Railroad, Washington Metropolitan Area Transit Authority, and Dallas Area Rapid Transit.

Siemens Industry, Inc:

Siemens Corporation is a U.S. subsidiary of Siemens AG, a global leader in electronics and electrical engineering, operating in the industry, energy, healthcare, and infrastructure and cities sectors. Siemens has been in business for over 160 years.

Siemens has previously contracted with Metro, and has provided satisfactory performances. In addition to Metro, Siemens has had contracts with BART, Amtrak, Tri County Metropolitan Transportation District, Denver Regional Transportation District, and Dallas Area Rapid Transit.

C. Cost/Price Analysis

The recommended price has been determined to be fair and reasonable based upon adequate competition and comparison to Metro's Independent Cost Estimate ("ICE"). The proposed total NTE for the recommended awardee is \$19,176,024.01 for the baseline quantities, training, warranty, and optional quantities, which compares favorably to Metro's ICE of \$36,143,076.13.

	Bidder Name	Bid Amount
1.	Balfour Beatty Rail, Inc.	\$19,176,024.01
2.	Powell Electrical Systems, Inc.	\$27,110,530.01
3.	Siemens Industry, Inc.	\$19,409,883.79

D. Background on Recommended Contractor

The recommended firm, Balfour Beatty Rail, Inc located in Atlanta, Georgia has been in business for over 100 years, is a leader in the rail infrastructure contractor specializing in construction and maintenance services for the public and private railroad markets. BBRI's clients are Class 1 and regional/short line railroads, industrial railroads, ports and rail transit authorities. BBRI has completed similar projects with the cities of Seattle, and Tucson.

The Project Manager assigned to this project has 25 years of experience in the traction power industry. Other key personnel assigned to the project, have over 60 years of combined experience in the Traction Power Systems Industry.

E. Small Business Participation

The Diversity and Economic Opportunity Department (DEOD) established a 7% Disadvantaged Business Enterprise (DBE) Anticipated Level of Participation (DALP) for this solicitation. Balfour Beatty Rail Inc. made an 8.76% DBE commitment. The Contractor's, commitment exceeds the goal.

SMALL BUSINESS GOAL	DALP 7%	SMALL BUSINESS COMMITMENT	DBE 8.76%
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	DBE/SBE Subcontractors	% Committed
1.	G&C Equipment Corporation	8.76%
	Total Commitment	8.76%

F. All Subcontractors Included with Recommended Contractor's Proposal

	Subcontractor	Services Provided
1.	G&C Equipment Corporation	Supply Transformers

Bids Out: 02/01/12 Total 40
 Bids Opened: 03/28/12 Total 3
 Advertisement Date(s): 02/02/12
 Newspaper: Long Beach Press Telegram and LA Sentinel

Item No.	Description	Qty	UM	Powell Electrical Systems, Inc.		Siemens Industry, Inc.		Balfour Beatty Rail, Inc.	
				Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
<p>Base Bid Expo II</p>									
1	Clarrington TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,255,020.00	\$1,255,020.00	\$1,005,835.00	\$1,005,835.00	\$1,001,578.86	\$1,001,578.86
2	Selby TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,255,020.00	\$1,255,020.00	\$1,005,835.00	\$1,005,835.00	\$1,001,578.86	\$1,001,578.86
3	Sepulveda TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,255,020.00	\$1,255,020.00	\$1,005,835.00	\$1,005,835.00	\$1,001,578.86	\$1,001,578.86
4	Barrington TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,255,020.00	\$1,255,020.00	\$1,005,835.00	\$1,005,835.00	\$1,015,255.06	\$1,015,255.06
5	Yard TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$2,604,215.00	\$2,604,215.00	\$1,781,808.00	\$1,781,808.00	\$1,545,375.55	\$1,545,375.55
6	Cloverfield TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$748,862.00	\$748,862.00
7	17th Street TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$748,862.00	\$748,862.00
8	5th Street TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$748,862.00	\$748,862.00
				Sub Total	\$11,159,616.00	\$7,897,431.00	\$7,897,431.00	\$7,897,431.00	\$7,897,431.00
				Sales Tax @ 7.75%	\$876,488.31	\$698,776.21	\$698,776.21	\$698,776.21	\$698,776.21
				Total Base Expo II	\$12,136,084.31	\$8,687,206.21	\$8,687,206.21	\$8,687,206.21	\$8,687,206.21
<p>Base Bid Footbill</p>									
1	Baldwin TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$738,239.47	\$738,239.47
2	Joseph TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$738,239.47	\$738,239.47
3	Los Robles TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$738,239.47	\$738,239.47
4	Yard TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$2,004,215.00	\$2,004,215.00	\$2,198,070.00	\$2,198,070.00	\$1,937,503.05	\$1,937,503.05
5	Bus Center TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,178,440.00	\$1,178,440.00	\$730,761.00	\$730,761.00	\$738,239.47	\$738,239.47
6	Inland Empire TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,072,264.00	\$1,072,264.00	\$659,087.00	\$659,087.00	\$738,239.47	\$738,239.47
7	Virginia TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,072,264.00	\$1,072,264.00	\$659,087.00	\$659,087.00	\$738,239.47	\$738,239.47
8	Citrus TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,072,264.00	\$1,072,264.00	\$659,087.00	\$659,087.00	\$738,239.47	\$738,239.47
				Sub Total	\$10,834,767.00	\$7,086,316.00	\$7,086,316.00	\$7,086,316.00	\$7,086,316.00
				Sales Tax @ 7.75%	\$821,792.11	\$621,192.66	\$621,192.66	\$621,192.66	\$621,192.66
				Total Base Footbill	\$11,656,559.11	\$7,707,508.66	\$7,707,508.66	\$7,707,508.66	\$7,707,508.66
<p>OPTION PRICING TWO (2) ADDITIONAL TPSS</p>									
1	Michilinda TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$1,047,720.00	\$1,047,720.00	\$726,661.00	\$726,661.00	\$748,862.00	\$748,862.00
2	Soldano TPSS - Design, manufacture, furnish, test, and deliver standardized Traction Power Sub-Stations (TPSS)	1	LM	\$941,544.00	\$941,544.00	\$655,368.00	\$655,368.00	\$748,862.00	\$748,862.00
				Sub Total	\$1,989,264.00	\$1,382,029.00	\$1,382,029.00	\$1,497,724.00	\$1,497,724.00
				Sales Tax @ 7.75%	\$174,060.80	\$120,927.84	\$120,927.84	\$130,700.35	\$130,700.35
				Total Option TPSS	\$2,163,324.80	\$1,502,956.84	\$1,502,956.84	\$1,628,424.35	\$1,628,424.35
<p>OPTION PRICING TPSS STORAGE FEE</p>									
1	Storage Fee - Clarrington TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
2	Storage Fee - Selby TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
3	Storage Fee - Sepulveda TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
4	Storage Fee - Barrington TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
5	Storage Fee - Yard (EXPO II) TPSS	1	LM	\$10,601.00	\$10,601.00	\$10,601.00	\$10,601.00	\$11,000.00	\$11,000.00
6	Storage Fee - Cloverfield TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
7	Storage Fee - 17th Street TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
8	Storage Fee - 5th Street TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
9	Storage Fee - Baldwin TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
10	Storage Fee - Los Robles TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
11	Storage Fee - Joseph TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
12	Storage Fee - Yard (Footbill) TPSS	1	LM	\$10,601.00	\$10,601.00	\$10,601.00	\$10,601.00	\$11,000.00	\$11,000.00
13	Storage Fee - Bus Center TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
14	Storage Fee - Inland Empire TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
15	Storage Fee - Virginia TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
16	Storage Fee - Citrus TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
17	Storage Fee - Michilinda TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
18	Storage Fee - Soldano TPSS	1	LM	\$5,301.00	\$5,301.00	\$5,301.00	\$5,301.00	\$5,500.00	\$5,500.00
				Sub Total	\$192,000.00	\$106,018.00	\$106,018.00	\$110,000.00	\$110,000.00
				Sales Tax @ 7.75%	\$16,800.00	\$9,278.88	\$9,278.88	\$9,278.88	\$9,278.88
				Total Option TPSS Storage Fee	\$208,800.00	\$115,296.88	\$115,296.88	\$119,278.88	\$119,278.88

Item No.	Qty	UM	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
SPARE PARTS								
1	4	LM	\$21,481.00	\$85,924.00	\$11,239.00	\$44,956.00	\$21,000.00	\$84,000.00
Spare DC feeder circuit breakers								
2	2	LM	\$21,481.00	\$42,962.00	\$14,594.00	\$29,128.00	\$24,000.00	\$48,000.00
Spare cathode circuit breakers and negative switch assemblies								
3	1	LM	\$33,204.00	\$33,204.00	\$42,777.00	\$42,777.00	\$11,250.00	\$11,250.00
Spare AC breaker for 15.34 kV and spare AC breaker for 12 kV substations. If the circuit breakers are identical, then a total of one breaker only need be supplied								
4	1	LM	\$435,000.00	\$435,000.00	\$486,007.00	\$486,007.00	\$369,000.00	\$369,000.00
Mainline rectifier transformer and one mainline auxiliary transformer for each type of substation rated voltage class								
5	2	LM	\$10,000.00	\$20,000.00	\$47,804.00	\$95,608.00	\$18,000.00	\$36,000.00
Diodes and fuse assemblies per rectifier								
6	6	LM	\$5,000.00	\$30,000.00	\$4,574.00	\$27,444.00	\$1,170.00	\$1,170.00
Ten percent spare fuses per substation for all types and sizes used								
7	1	LM	\$4,000.00	\$4,000.00	\$10,595.00	\$10,595.00	\$1,420.00	\$1,420.00
Ten percent spare LEDs per substation for all types used								
8	1	LM	\$750.00	\$750.00	\$662.00	\$662.00	\$1,050.00	\$1,050.00
AC voltage class protection relays of each type								
9	2	LM	\$8,000.00	\$16,000.00	\$5,293.00	\$10,586.00	\$24,000.00	\$24,000.00
DC protective relay of each type per substation								
10	1	LM	\$6,200.00	\$6,200.00	\$93,235.00	\$93,235.00	\$3,000.00	\$3,000.00
DC surge arrestors for feeder breakers, cathode and negative breakers								
11	3	LM	\$375.00	\$1,125.00	\$298.00	\$894.00	\$1,500.00	\$4,500.00
Air conditioning units (of each type)								
12	2	LM	\$6,400.00	\$12,800.00	\$9,237.00	\$18,474.00	\$9,000.00	\$18,000.00
Sub Total								
			\$687,965.00	\$687,965.00	\$9,237.00	\$18,474.00	\$9,000.00	\$18,000.00
			\$60,198.94	\$60,198.94	\$75,282.00	\$75,282.00	\$60,784.13	\$60,784.13
			\$748,163.94	\$748,163.94	\$935,649.00	\$935,649.00	\$631,174.13	\$631,174.13
Total Spare Parts								
1	1	Set	\$23,100.00	\$23,100.00	\$60,984.00	\$60,984.00	\$3,000.00	\$3,000.00
Relay Calibration test set								
2	2	Set	\$4,400.00	\$8,800.00	\$3,292.00	\$6,584.00	\$3,000.00	\$6,000.00
Relay Calibration software and hardware for both AC and DC breakers including laptop computer, associated interface cables and connection								
3	2	Set	\$5,573.00	\$11,146.00	\$5,585.00	\$11,170.00	\$3,000.00	\$6,000.00
Development software for local announcement panel Human Machine Interface (HMI) with associated software, Laptop computer including substation network troubleshooting software and associated hardware								
4	2	Pkg	\$27,531.00	\$55,062.00	\$18,754.00	\$39,508.00	\$2,500.00	\$5,000.00
Complete simulation packages of substation components control and communication modules including development packages license software and associated source code for control ladder logic								
5	2	Set	\$3,752.00	\$7,504.00	\$13,159.00	\$26,338.00	\$1,500.00	\$3,000.00
Simulation tools for substation Transfer Trip (TT) system and Emergency Trip System (ETS)								
6	1B	Set	Included	\$0.00	\$3,292.00	\$9,258.00	\$14,800.00	\$298,400.00
Set of breaker test equipment, breaker calibration tools, breaker lifting device and breaker grounding device								
7	2	Set	\$130,000.00	\$260,000.00	\$99,080.00	\$198,160.00	\$131,240.00	\$262,480.00
Transformer Turned Ratio Tester (TTR), Digital Low Resistance Ohmmeter (DLRO), Power Quality Analyzer and FLIR infrared camera model P660 or better, and UV Corona Detection camera								
Sub Total			\$386,612.00	\$386,612.00	\$404,010.00	\$404,010.00	\$335,360.80	\$335,360.80
Sales Tax @ 7.6%			\$29,361.06	\$29,361.06	\$339,360.80	\$339,360.80	\$339,360.80	\$339,360.80
Total Special Tools			\$415,973.06	\$415,973.06	\$743,370.80	\$743,370.80	\$674,721.60	\$674,721.60
TOTAL BASE BID EXPO II			\$12,135,081.31	\$12,135,081.31	\$9,687,206.21	\$9,687,206.21	\$8,488,974.08	\$8,488,974.08
TOTAL BASE BID FOOTHILL			\$11,466,669.11	\$11,466,669.11	\$7,719,417.80	\$7,719,417.80	\$7,711,665.44	\$7,711,665.44
TOTAL OPTION PRICING TWO (2) ADDITIONAL TPSS			\$2,163,324.56	\$2,163,324.56	\$1,602,966.84	\$1,602,966.84	\$1,624,424.85	\$1,624,424.85
TOTAL OPTION PRICING TPSS STORAGE FEE			\$208,800.00	\$208,800.00	\$115,294.88	\$115,294.88	\$119,625.00	\$119,625.00
TOTAL SPARE PARTS			\$748,163.94	\$748,163.94	\$935,649.00	\$935,649.00	\$631,174.13	\$631,174.13
TOTAL SPECIAL TOOLS			\$415,973.06	\$415,973.06	\$743,370.80	\$743,370.80	\$674,721.60	\$674,721.60
GRAND TOTAL			\$19,409,853.78	\$19,409,853.78	\$14,409,853.78	\$14,409,853.78	\$12,176,024.03	\$12,176,024.03

I hereby certify _____ as being the lowest responsive, responsible bidder and recommend the award to them for total price, including sales tax, of _____

Date

Signature