



300 Lakeside Drive – 17th Floor  
Oakland, CA 94625  
(510) 287-4775

## **ADVANCE NOTICE TO BIDDERS**

### **SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT**

**For: REVERSIBLE CONTROLLABLE RECTIFIER PORTABLE SUBSTATION**

**CONTRACT NO. 15EK-220**

#### **GENERAL INFORMATION**

NOTICE IS HEREBY GIVEN that sealed Bids will be received in two parts, a Technical Qualification Bid and a Price Bid, until the hour of 2:00 p.m., Tuesday, February 13<sup>th</sup>, 2018, at the District Secretary's Office, 23<sup>rd</sup> Floor, 300 Lakeside Drive, Oakland, California 94612 (mailing address: P.O. Box 12688, Oakland, California, 94604-2688) for a REVERSIBLE CONTROLLABLE RECTIFIER PORTABLE SUBSTATION, Contract No. 15EK-220. Only the Technical Qualification Bids will be opened publicly and announced at the said hour and date in the 23<sup>rd</sup> Floor Conference Room No. 2382T, Kaiser Center Building, 300 Lakeside Drive, Oakland, California. Bids will thereafter be accepted or rejected by the District. The Bidders are responsible to ensure their Bids are received at the time and location specified.

The time for receipt of Bids may be extended by the District's General Manager, or authorized representative, from the above-stated Bid Opening date. Notice of such extension will be published at least once in a newspaper of general circulation in the District, which publication will be at least ten (10) Days before Bids are formally received and opened.

#### **BACKGROUND OVERVIEW AND PROJECT SCOPE**

The BART Core System Traction Power Substation (TPSS) is the original BART system installed in the early 1970's and included 37 TPSS's. In order to maintain BART's infrastructure BART is anticipating replacing 28 or more of the original BART core system TPSS's at a rate of four to six per year over the next 8 years beginning in 2019.

BART is investigating the possible use of reversible controllable rectifier technology in the new TPSS's to be procured which have the potential of reducing energy use by 20-30%, reducing pollution and greenhouse emissions; and saving millions of dollars in energy costs over the projected life of the new equipment. Because this technology is very new to the transit industry and has not been used at BART before, this pilot project will evaluate its use in a portable TPSS (PTPSS) to be installed for evaluation in the BART system.

This Contract is for the procurement of one (1) portable transformer-Reversible Controlled Rectifier (RCR) house with the option for the procurement of one (1) additional transformer-RCR house. The DC switchgear house required to be paired with the transformer-RCR House Trailer for a complete and functional Portable Traction Power Substation (TPSS) will be provided by the District. Further, installation of equipment provided under this Contract will be by others. The Contract also includes design and test coordination with the existing 34.5 kV sub-transmission system and the DC switchgear

house, system monitoring, testing, and commissioning support of the completed TPSS after site installation.

## **DESCRIPTION OF WORK TO BE PERFORMED**

The Work includes: The Supplier shall provide all labor, materials, accessories, and incidentals necessary for the following major work elements and for integrating them into a functional portable substation as indicated on the Contract Drawings. Work consists of, but is not limited to, the following principal items:

1. Develop a final design for the portable transformer-RCR house as shown in the Contract drawings and Contract specifications. The design shall include all equipment, materials, components, devices, structures, rectifier-transformer, RCR, DC main switchgear, vacuum fault interrupt switch, accessories, and design coordination with interfacing equipment necessary for a complete and functional Portable TPSS. All equipment shall be installed as an integral part of the trailer comprising the portable TPSS substation. The Supplier shall obtain the District's approval on all designs to ensure conformance to the requirements of this Contract.
2. Provide, manufacture, integrate, factory test, and deliver to the District's site all-new and completely functioning equipment. The Supplier's portable substation shall provide the following major portable substation equipment components, including the following:
  - a. 3 MW reversible controlled rectifier unit.
  - b. 1000 V Main DC switchgear assembly
  - c. Meter, control and display cabinet (C05), negative ground terminations (NB01), DC panel (D02), and ac panel (L02).
  - d. 34.5 kV AC Vacuum Fault Interrupter (VFI)
  - e. 3 MW dry-type rectifier-transformer.
3. Submit all documentation as indicated. The Supplier shall conform to the requirements for the submittal of design, performance, and testing, training, OEM manuals, and as built documentation as indicated in the Contract Data Requirements List (CDRL) in Exhibit A and as indicated. Furnish labor, supervision, engineering, incidentals, and other requirements for the proper execution and completion of the Contract in accordance with the schedule indicated.
4. Optional work for a second portable transformer-RCR house may be included, at the discretion of the District, subject to the results of the performance tests of the first portable transformer-RCR house; and subject to available funding

The total estimated value of the base Contract bid for the one (1) portable transformer-Reversible Controlled Rectifier (RCR) house and the two (2) pre-defined allowances provided under the base Contract is projected to be between: \$4,000,000 to \$5,000,000. The combined estimated value of the three (3) options containing the option for a second additional portable transformer-RCR house and other services for on-call support monitoring and field testing - if exercised by the District is projected to be between: \$2,500,000 to \$3,500,000.

The total Contract Completion Time for the basic bid shall not exceed eight hundred-fifty (850) calendar days from the effective date of the Notice to Proceed. All Contract Work shall be completed as indicated in the Contract Documents.

All work shall be performed in accordance with the laws of the State of California.

The District may reject any and all Bids.

### **PRE-BID MEETING**

A pre-Bid meeting will be held on Thursday, December 7, 2017. The pre-Bid meeting will convene promptly at 2:30 p.m. at the District's Offices at: 300 Lakeside Drive, Oakland, CA 94612, the 15th Floor Main Conference Room No. 1500. At the pre-Bid meeting, the District's Disadvantaged Business Enterprise (DBE) and Small Business Entity (SBE) participation policy will be explained and DBE and SBE opportunities discussed. Interested prospective Bidders are requested to make every effort to attend this only scheduled pre-Bid Meeting and to confirm their attendance by contacting the District's Contract Administrator, Ron Coffey, at telephone number (510)-287-4775, or email to: [rcoffey@bart.gov](mailto:rcoffey@bart.gov) prior to the date of the scheduled pre-Bid meeting.

Although there is no DBE or SBE Participation Goal for this Contract, Bidders are encouraged to take all steps necessary to provide an equal opportunity for DBEs and/or SBEs to participate. Certain provisions will apply to all DBE and/or SBE Subcontractors listed at the time of bid. Inquiries regarding the District's DBE and/or SBE Programs shall be directed to the District's Office of Civil Rights, 300 Lakeside Drive, 16<sup>th</sup> Floor, Oakland, CA 94612, and telephone at (510) 464-6100, or to BART's website at: [www.bart.gov/ocr](http://www.bart.gov/ocr).

There is a parking garage with ample space immediately behind BART's building at: 300 Lakeside Drive. Visitor parking (charged by the hour) is available on the First Level (A) in the Kaiser Center Garage (North of Kaiser Center between Thomas Berkley Way/20<sup>th</sup> and 21<sup>st</sup> Streets). There are also additional parking garages within a few blocks of BART's offices with lesser parking fees. Parking on city streets close to BART's offices is time restricted and metered and is strictly enforced.

It is not necessary, nor mandatory, for a potential bidder to attend the Pre-Bid Meeting to submit a bid for this Invitation to Bid; however, it is highly encouraged.

### **HOW TO OBTAIN OR SEE BID DOCUMENTS**

(Available on or after November 14, 2017)

Bids shall be submitted in accordance with, and subject to, the conditions contained in the Instructions to Bidders contained in the Contract Book to which prospective Bidders are referred.

### **REQUIRED REGISTRATION ON THE BART PROCUREMENT PORTAL**

Prospective Bidders or Interested Parties (including prospective Subcontractors of any tier) who are not currently registered on the BART Procurement Portal to do business with BART are required to register on the BART Procurement Portal on line at: <https://suppliers.bart.gov> in order to download the Contract Documents (including Contract Drawings and Contract Specifications), updates, and any Addenda issued on line and be added to the On-Line Planholders List for this solicitation.

If a Prospective Bidder is a joint venture or a partnership, such entity must register on the BART Procurement Portal with the entity's Tax Identification Number (TIN) and download the Contract Documents so as to be listed as an On-Line Planholder under the entity's name prior to submitting its Bid, in order for the entity to be eligible for award of this Contract.

Prospective Bidders or Interested Parties may also purchase printed copies of the Contract Documents from the District Secretary's Office by downloading the Contract Documents' Order Form from the BART Procurement Portal website and submitting the completed Contract Documents' Order Form to the District Secretary's Office. Prospective Bidders or Interested Parties must be registered on the BART

Procurement Portal to do business with BART in order to be able to download the Contract Documents' Order Form. Downloading the Contract Documents' Order Form will automatically make a Prospective Bidder or Interested Party an On-Line Planholder. In order to be an On-Line Planholder and be eligible for award of this Contract, a Prospective Bidder must either: i) download the Contract Documents for this solicitation from the BART Procurement Portal or ii) download the Contract Documents' Order Form with which to purchase the Contract Documents directly from the District Secretary's Office.

Prospective Bidders or Interested Parties that elect to purchase printed copies of the Contract Documents, must first download the Contract Documents' Order Form from the BART Procurement Portal website and then submit the completed Contract Documents' Order Form to the District Secretary's Office, San Francisco Bay Area Rapid Transit District, 23<sup>rd</sup> Floor, 300 Lakeside Drive, Oakland, California 94612. Such printed copies of the Contract Documents shall be purchased with either cash, check, or postal money order drawn in favor of the San Francisco Bay Area Rapid Transit District in the following amount, which includes any applicable sales tax, and is not refundable:

Contract Book and Contract Drawings (Includes forms for submittal of Bids).....	\$ 50.00
Full Size Drawings, per sheet .....	\$ 2.50

The aforementioned Contract Book at a cost of fifty dollars, \$50, includes good quality half size drawings; and prospective Bidders are advised to review the Contract Book half size drawings before ordering any Full-Size Drawings.

Bidders are informed that all of these documents will be required in the preparation of Bids. Each Bid shall be on a prescribed Bid Form and shall be for the entire Contract including all Bid Items.

Bid Documents may also be examined at certain public and private plan rooms. Bid Documents may be examined free of charge at the District's Offices on or after November 14, 2017. The location of these plan rooms and the District's Offices may be obtained by calling the District's Contract Administrator at the telephone number set forth above.

**BIDDERS WHO HAVE NOT REGISTERED ON THE BART PROCUREMENT PORTAL PRIOR TO SUBMITTING A BID AND DID NOT OBTAIN THE CONTRACT DOCUMENTS FOR THIS SOLICITATION EITHER ON LINE OR DIRECTLY THROUGH THE DISTRICT SECRETARY'S OFFICE IN ORDER TO BE LISTED AS AN ON-LINE PLANHOLDER FOR THIS SOLICITATION, WILL NOT BE ELIGIBLE FOR AWARD OF THIS CONTRACT.**

BIDDERS MAY OBTAIN INFORMATION ON THE STATUS OF THE AWARD OF THIS CONTRACT BY CHECKING THE BART WEBSITE: <http://www.bart.gov/aboutbod/meetings.aspx> FOR CONTRACTS SCHEDULED TO BE PRESENTED BY STAFF TO THE BART BOARD FOR AWARD CONSIDERATION.