

Brad Davis

From: Ken Mills <kccmills@dslextreme.com>
Sent: Thursday, August 07, 2014 3:35 PM
To: Ken Mills
Subject: Addendum 1 to Invitation for Bids for LiFePO₄ Battery Cells
Attachments: MTD LFP Battery Cells IFB-Addendum 1 (20140807).pdf

Attached is Addendum 1 to the Santa Barbara Metropolitan Transit District (MTD) Invitation for Bids (IFB) for LiFePO₄ Battery Cells. Also, please note the following:

- Prospective Bidders are reminded that if they have specific concerns with the IFB requirements, including the delivery timeframe, they may request changes that may enable them to bid and that MTD will take such requests under consideration. Such requests are to be emailed to Ken Mills at kccmills@dslextreme.com by 5:00 (PDT) on Tuesday, August 12, 2014.
- **Sealed** hardcopy bids are due at MTD by 2:00 PM (PDT) on Tuesday, August 19, 2014. Fax or e-mail bids are not acceptable. See Section 2 of the IFB Solicitation Instructions for further details about bid preparation and submission.
- The IFB and the attached addendum are also available at the following MTD webpage:
<http://www.sbmtd.gov/business-and-employment/purchasing.html>.

PLEASE ACKNOWLEDGE RECEIPT OF THIS E-MAIL BY RETURN E-MAIL SO THAT I KNOW YOU RECEIVED IT.

Thank you and we look forward to your bid

Ken Mills
Project Manager
Santa Barbara Metropolitan Transit District
(805) 832-3024
kccmills@dslextreme.com

SANTA BARBARA METROPOLITAN TRANSIT DISTRICT

Invitation for Bids (IFB) for LiFePO₄ Battery Cells

Addendum Number 1 – Issued August 7, 2014

The Santa Barbara Metropolitan Transit District (MTD) herewith issues this Addendum No. 1 to its *Invitation for Bids for LiFePO₄ Battery Cells* which was issued August 5, 2014. Except as modified by this addendum, all other terms and conditions of the IFB remain unchanged. The following changes are hereby made to and incorporated in the IFB:

- A1-1. On the Solicitation Summary Sheet (first page of the IFB) delete the following line: “Licenses Required: City of Santa Barbara Business License.”
- A1-2. Add the following to the end of the “Background” section of the Technical Specifications:
“MTD has successfully performed this battery upgrade several times since 2010 including installation of battery management systems.”
- A1-3. In the Technical Specifications under the “Specific Requirements” section, insert the following new item 1d and re-label original items 1d and 1e as 1e and 1f respectively:
“d. The cells typically charge at a rate of 0.11C and discharge at a peak of 0.6C with an average discharge of 0.25C.”

End of Addendum 1



Invitation for Bids for LiFePO₄ Battery Cells

SOLICITATION SUMMARY SHEET

Solicitation Issuance Date: Tuesday, August 5, 2014

Latest Revision Date: Thursday, August 7, 2014

Project Description: Provide Lithium Iron Phosphate (LiFePO₄) Battery Cells and related items as specified in the enclosed Technical Specifications. A bid is for a base quantity of two sets of 92 cells and related items plus an option quantity of four sets of 92 cells and related items which may be issued later at MTD's discretion.

Project Locations: MTD Maintenance Department at 550 Olive Street, Santa Barbara, CA 93101

Pre-Bid Meeting Date/Time: None

Requests/Clarifications Deadline: Tuesday, August 12, 2014 at 5:00 PM

Bid Due Date/Time: Tuesday, August 19, 2014 at 2:00 PM

Bid Due Location: MTD Administrative Offices, 550 Olive Street, Santa Barbara, CA 93101
Reception Desk on 2nd Floor (bids opened in downstairs auditorium)

Bid Contents: Price Bid; Bidder Information; References, Suppliers & Subcontractors; and Acknowledgement of Addenda forms. LiFePO₄ Battery Cell Specification Sheet.

Contract Award Date: Tuesday, August 26, 2014 (anticipated)

Solicitation Contact: Ken Mills, Project Manager, (805) 832-3024, kccmills@dslextreme.com

Type of Solicitation: Sealed invitation for bids with award to low responsive, responsible bidder

Type of Contract: Fixed price

~~Licenses Required:~~ ~~City of Santa Barbara Business License~~

~~Bonding Required:~~ None

Check MTD website at <http://www.sbmtd.gov/business-and-employment/active.html> for updates.

Santa Barbara Metropolitan Transit District
Invitation for Bids for LiFePO₄ Battery Cells
Technical Specifications

Background: SBMTD operates electric shuttle buses which are powered by Ni-Cd modules which are being replaced with Lithium Iron Phosphate (LiFePO₄) Cells. The cells will be located in battery trays positioned in compartments under the seating area of the bus. This project is to provide new LiFePO₄ cells which will be installed by MTD. MTD has successfully performed this battery upgrade several times since 2010 including installation of battery management systems.

Specific Requirements.

1. Provide LiFePO₄ cells in accordance with the following specifications:
 - a. A set of cells is 92 cells using the dimensions in “1d” below to fit in two compartments. The resultant quantity for one set will be enough cells for one bus.
 - b. Cells shall have a rated capacity of 400 Ah_r at nominal 22 degrees centigrade temperature conditions.
 - c. The total calculated electric power at 3.2 volts per cell shall not be less than 117 kilowatt-hours.
 - d. The cells typically charge at a rate of 0.11C and discharge at a peak rate of 0.6C with an average discharge rate of 0.25C.
 - e. Nominal cell dimensions are as follows:
 - i. Length: 450 mm +/- 2 mm
 - ii. Width: 72 mm +/- 2 mm
 - iii. Height: 286 mm +/- 2mm
 - f. Cells shall be available for bulk and replacement purchase in a quantity of as few as one cell.
2. Provide with each set of LiFePO₄ cells the following set of related items: 100 inter-cell 400 Amp rated copper connectors, 100 14 mm stainless steel terminal bolts, 100 14 mm flat washers and 100 14 mm stainless steel split lock washers.
3. The LiFePO₄ cells shall be warranted for 2,000 charge cycles at 80% depth of discharge (DOD) wherein one cycle is for discharge from 100% charge to 20% charge remaining.

Schedule & Options. “Days” below means “calendar days.”

- Base Contract Quantity – Two sets of cells and two sets of related items shall be delivered within 10 days after receipt of contract award.
- Optional Contract Quantity – Four sets of cells and four sets of related items shall be delivered within 10 days after receipt of MTD notice that the option is being exercised. The option may be exercised solely at MTD’s discretion and must be done for all four sets unless Contractor approves a lesser quantity.
- Exercise of Option – MTD shall have the right to exercise the option for 90 days following formal acceptance of the first two sets of cells.

Delivery Location. All items shall be delivered FOB to the following address:

Santa Barbara Metropolitan Transit District, 550 Olive Street, Santa Barbara, CA 93101