

CITY OF SAN LEANDRO
REQUEST FOR QUOTATION

SUBMIT BID TO: City of San Leandro Purchasing Department 835 East 14th Street San Leandro, CA 94577	FOR FURTHER INFORMATION CALL: Don Brockman Purchasing Agent (510) 577-3376 fax (510) 577-3312 dbrockman@ci.san-leandro.ca.us
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BID NO: 07-08.025	DATE MAILED: February 6, 2008	THIS QUOTATION MUST BE DELIVERED TO THE CITY BEFORE: 3:00 P.M. Thursday, February 21, 2008
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QTY.	DESCRIPTION	UNIT PRICE	EXTENSION
	<p>EIGHTEEN (18) SETS RADAR OPERATED SOLAR POWERED VEHICLE SPEED FEEDBACK SIGNS</p> <p>Bid No. 07-08.025</p> <p>Notice to Bidders</p> <p>Provide eighteen (18) sets of radar operated, solar powered, vehicle speed feedback signs with data collection functions, speed limit signs, poles, mounting hardware and traffic statistics software in accordance with the attached specifications.</p> <p>Manufacturer/Model: _____</p> <p>Specify Warranty: _____</p> <p>All bidders must submit with their proposal sufficient literature to show compliance with specifications. Any deviations from specifications must be clearly indicated in writing at the time the proposal is submitted. The City reserves the right to waive minor variations in specifications bid.</p> <p>Do not include sales tax in your bid. Sales tax will be added to the purchase order and remitted with invoice payment.</p> <p>State your earliest delivery date as requested. This date may be an important factor in award determination.</p> <p>Sealed bids shall be received at the Purchasing Office, City Hall, 835 E. 14th Street, San Leandro, CA up to 3:00 p.m., on Thursday, February 21st, 2008 at which time they will be publicly opened and read.</p> <p>Project Manager: Chienhua Dean Hsiao, Ph.D., P.E., PTOE Traffic Operations Engineer Tel: (510) 577-3410 dhsiao@ci.san-leandro.ca.us</p> <p>DBE's are encouraged to bid.</p>	<p>\$ _____</p> <p>Each</p>	<p>\$ _____</p> <p>Total</p>

Any bid may be withdrawn at any time prior to the time fixed for the opening of bids only by written request for the withdrawal of the bid filed with the City. The request shall be executed by the bidder or bidder's duly authorized representative. The withdrawal of a bid does not prejudice the right of the bidder to file a new bid. Whether or not bids are opened exactly at the time fixed in the public notice for opening bids, a bid will not be received after that time nor may any bid be withdrawn after the time fixed in the public notice for opening of bids.

As stated in Public Contract Code Section 5100 to 5108, inclusive (State Contract Act) concerning relief of bidders and in particular to the requirement therein, that if the bidder claims a mistake was made in his bid, the bidder shall give the City written notice within five (5) days after the opening of the bids of the alleged mistake, specifying in the notice, in detail how the mistake occurred.

All bidders shall verify if any addendum for this project has been issued by the City. It is the bidder's responsibility to ensure that all requirements of contract addendum are included in the bidder's submittal.

The award will be made to the lowest responsible bidder whose bid complies with the specifications in a manner satisfactory to the City's best interests as determined by the City. The right is reserved, as the interest of the City may require, to reject any or all bids, or to waive any informality or minor irregularity in the bids.

Payment shall be within 30 days following acceptance of bid items.

- Delivery shall be F.O.B. destination
- Complete delivery _____ days from order
- There shall be no charge(s) for delivery of bid items.
- Cash Discount _____ in _____ days

To bid, complete and return a copy of the Request and any other required forms, in a sealed envelope. The envelope shall be marked with the project name and bid number. The bid must be received by the date and time shown in order to be considered. Deliver envelope to: City of San Leandro Purchasing Dept., 835 E. 14th Street, San Leandro, CA, 94577. Please note that there is a one-day delay in mail delivery to City Hall by the U.S. Postal Service.

Delivery of merchandise shall be to:
Public Works Service Center
14200 Chapman Road
San Leandro, CA 94577.

Firm _____
Address _____

By (Signature) _____
Title: _____

Date: _____
Phone: _____
FAX: _____
Print Name: _____



Don Brockman
Purchasing Agent

EIGHTEEN (18) SETS RADAR OPERATED, SOLAR POWERED VEHICLE SPEED FEEDBACK SIGNS Bid No. 07-08.025

PROJECT DESCRIPTION

The City of San Leandro is seeking a vendor to supply eighteen (18) sets of radar operated, solar-powered vehicle speed feedback signs with data collection functions, speed limit signs, poles, mounting hardware, and traffic statistics software. Additional signs may be purchased dependent upon future grant funding.

TECHNICAL SPECIFICATIONS

Vehicle Speed Feedback Sign (VSFS) shall minimally meet 2006 California Manual on Uniform Traffic Control Devices (CAMUTCD) and the following specifications

OPERATION

On/Off Timer options:	4 timers per day, also by day of week. Settings allow lower speed limits for school zones.
Display On/Off:	Allows traffic data collection to continue even when display is off
Display Brightness Control:	Manual setting option or auto adjust to light conditions, up to 100 levels
Setup functions:	Easy to follow menu from a Palm PDA (included with sign purchase)
Maximum Speed Cutoff:	Prevents unwanted high speed displays, up to 99 mph, discourages excessive speeds to 'test' sign. Choice of flashing matrix, or LED display cutoff
Date/Time Control:	Battery backed real-time clock/calendar
Violator Alert:	Choice of slow or fast flashing of speeds above set speed limit

DIMENSIONS

Housing size:	15.8" H x 22.2" W x 5.25" D
Aluminum housing:	3/16" Weather resistant, highly vandal-proof, sealed environment
Your speed sign:	21" H x 24" W "YOUR SPEED" MUTCD compliant colors and reflectiveness
Speed limit sign:	24" H x 18" W regulatory speed limit sign (25 MPH)
Display Characters:	2 digits, 12" high x 8.25" wide (amber LEDs)
Weight:	< 60 lbs (including 2 batteries)

COMPONENTS

Circuit breaker:	multi-circuit, 5 amp fuses
Power Supply:	12V DC & solar panel
Power Consumption:	< 2.5 amps (24w) in active mode, idle mode < 1 watt

LEDs: Super bright amber LEDs (life up to 100,000 hours)
Communication Port: Allows password protected exchange of data between the sign and Palm PDA
System storage capacity: mini SD memory card can store over 500,000 vehicle records

RADAR UNIT

Type: K Band, single direction Doppler radar, FCC part 15 compliant
Sensor Range: up to 1000'
Beam width: 12 degrees, +/- 2 degrees
Operating frequency: 24.125 GHz, +/- 50 MHz
Accuracy: +/- 1.5 mph
Speed display range: 7 - 99 mph
Speed detection range: 7 - 127 mph

HOUSING

Composition and Finish: Aluminum with white powder coat finish, vandal and fire resistant
Temperature ranges: -20° F to +140° F (AC model) -4° F to +140° F (Solar model)
Humidity maximum: 100%
Relative humidity range: 20% to 90%
Display cover: .25" thick, shatter resistant, protects LEDs, GE Lexan™ or equivalent
Internal shield: Internal .375" aluminum shield to protect components from abuse or vandalism. Also beveled to provide maximum viewability for oncoming traffic BASHPLATE™ or equivalent

POLE MOUNTS

Speed Feedback Sign: 3" to 4.5" outside diameter round pole, dual 'U' channel, or single square pole brackets
Speed Limit Sign: sign extender bracket (pair, including pole clamps) extending speed limit sign from pole to match front of "YOUR SPEED" sign
Solar Panel: side pole mount with 45° angle bracket for effective solar charging

SOLAR POWER

Solar Panel Output: 54 watt, Voltage at Pmax = 17.4V, Current at Pmax = 3.11Amps
Batteries: Two 18amp hour deep cell, non-spillable long life batteries (UL recognized)
Energy density: 1.54 Watt-hours/cubic inch

Battery controller:	Manages flow of solar energy input (up to 80w) from solar panel to battery
Software control:	Prevents overcharging and intelligent shutdown when battery nears 20% of complete discharge, auto restart above 30% charge
Battery status:	Checks battery charge levels and solar insolation amperage via PALM™ PDA

TRAFFIC STATISTICS SOFTWARE

Data Collection:	Tallies data on over 500,000 vehicles as they pass by the sign
Information Recorded:	Time of day and Date, Average Vehicle Speed, Peak Vehicle Speed, Number of Vehicles per half hour segment, with daily totals, Number of Speed Limit violators per 1/2 hour segment, with daily totals
Analysis Breakouts:	Daily Reports available in half hour and one hour segments
Standard Report:	12 Pre-defined graphs available with no programming
Data Conversion:	Converts files for use with spreadsheet (Microsoft Excel)

POLE

15-foot high type 1B pole, 4-inch NPS galvanized steel pipe with base plate, anchor bolts, nuts, and washers