Portable Solar Powered Traffic Signal Systems

2020-17

Addendum #2

Revised Specifications & Pricing Table

**Bid Opening Date Extended**

December 17, 2019

* Under Specification 508-60-01, Page 4, under “Power Source”, the 1st paragraph is amended to allow for wiring of a 12-volt or a 24-volt DC configuration.
* A bidder e-mailed concerns regarding the specificity of some specification requirements, such as trailer construction, and that is could be restrictive to bidder competition. In response, within the specifications, it is stated that the Illinois Department of Transportation reserves the right to waive minor informalities, deficiencies or technical variances which by their nature are restrictive to a given manufacturer, if in its’ judgment, it would be in the best interest of the State to do so and it would not prejudice the rights of other bidders. Please be aware if equipment offered actually meets or exceeds what is called for in the specifications, please explain this in the specification/questionnaire response.
* Under Specification 508-60-01, Page 5, under “District Specific Optional Equipment and Features”, the first option listed is revised to read “Galaxy or Equivalent Operating System”. This change also applies to Line Item #2 listed in the pricing table of the bid.
* The bid opening date is revised. The bid opening is now scheduled for December 26, 2019 at 11:00 a.m. prevailing time.

Use the following revised Specification 508-60-01 and page 10 of the Contract (Item 2 of Pricing Table) in place of what was originally published.

Please bid accordingly.

State of Illinois

Department of Transportation

Bureau of Business Services

**Specifications and Questionnaire for a Solar Powered, Trailer-Mounted, Portable Traffic Signal System**

August 2019

This specification and questionnaire covers a solar powered, trailer-mounted, portable traffic signal system for use in Department of Transportation highway maintenance operations. The Department of Transportation is specifying acceptable units by Make, Model, and Required Accessories as outlined below.

Each bidder shall submit with their bid two sets of descriptive literature and specifications describingall the equipment and optionsproposed. This information shall be clearly marked to indicate the make, model, and accessories proposed to be furnished.

Bidders quoting on equipment must submit with their bid written proof of the following:

1. The manufacturer of the equipment proposed has been actively involved in the manufacture of the equipment called for in the bid for a period of not less than 5 years.
2. Parts and service for the equipment proposed are readily available within the State of Illinois.
3. Provide a list of 5 end users with telephone numbers and contact names that are presently using the product quoted.

It is the responsibility of each bidder to complete and return this questionnaire with the bid.

**Bidders are advised to carefully read these specifications as changes have been made since the last solicitation issue.**

**Unless otherwise specified, the proposed equipment shall be complete in all parts and ready for immediate use upon delivery.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Proposed with this Bid:** | | | | | | | | | |
| Make: | |  | | | | | |
| Model: | |  | | | | | |
| Manufactured By: | | | | | |  | | | |
| Bidder: | | | |  | | | | | |
|  | | | |  | | | | | |
|  | | | |  | | | | | |
| Telephone: | | |  | | | |
| Contact Name: | | | | |  | | |
| Email: |  | | | | | | | |

The Illinois Department of Transportation reserves the right to waive minor informalities, deficiencies or technical variances which by their nature are restrictive to a given manufacturer, if in its’ judgment, it would be in the best interest of the State to do so and it would not prejudice the rights of other bidders.

Serviceability will be a factor in award. Successful bidder shall either be able to provide service after purchase or shall indicate other qualified service facilities able to service equipment, within a reasonable period of time at agency locations. Bidder shall provide documentation and enumerating service locations. A Review of the bidder's ability to provide prompt parts and service to the State of Illinois and in particular to the delivery location, will be considered in determining award.

Bids will only be accepted from established manufacturers or their authorized dealers. Any dealer submitting a bid hereby guarantees that it is an authorized dealer of the manufacturer and that the manufacturer has agreed to supply the dealer with all quantities of products required by the dealer in fulfillment of its obligations under any resultant contract with the State. Bidder must submit authorized dealer letter upon request.

**Warranty:**

Unless otherwise specified, Manufacturers’ standard warranty shall be provided. **Bidder shall attach copies of warranty with their bid****. Warranty shall commence at the Illinois Department of Transportation in-service date.** If any equipment fails to conform to the warranties during the applicable warranty period, the Vendor or Manufacturer will adjust, repair or replace the equipment at no charge to the Department as soon as possible upon notice from the Department. Equipment shall be repaired on-site and will be performed at no additional cost to the Department.

The Vendor may provide or perform warranty service at a dealer location within the Districts geographic region if on-site repair is not possible. Vendor shall facilitate pickup and delivery of equipment at Vendor's cost if warranty repair(s) are made off-site during the warranty period. The contract Vendor is responsible for any failure of their allied or sub-contractors fulfillment of said warranties. Failure to provide this service shall result in a “Complaint to Vendor” that could affect future bid awards.

**Delivery:**

It will be the responsibility of the successful vendor to guarantee delivery within the quoted time and to require allied manufacturers or suppliers to complete the installation of auxiliary equipment in accordance with the quoted delivery time.

Failure to comply with the quoted delivery time because of delays resulting from the inability of suppliers of allied equipment such as bodies, snowplows, spreaders, etc., may be reason to refuse to consider similar items from those suppliers on future bids.

All equipment provided by the Vendor and the sub-contractor(s) shall be fully operational when delivery is made. Any noted defects at the time of delivery shall be addressed by Vendor in the first 30 days of in-service.

Bidder/Vendor acknowledges the requirements above. Yes  No

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| --- | --- | --- | --- |
| Bidder/Vendor Initials: |  | Date: |  |

**Note: If the equipment proposed exceeds the minimums called for in the specification please do not mark NO. Mark YES and explain with a short comment on how it exceeds**

**Traffic signal system:**

This specification is intended to describe a solar powered, programmable, portable traffic system that will be used to display Manual on Uniform Traffic Control Devices (MUTCD) traffic signal controls. Two (2) units will be a complete set of traffic signals.

Complies: Yes  No

The portable signals will be used and must function during all forms of inclement weather to alert the traveling public.

Complies: Yes  No

**The following accessories and options shall be included:**

**Signal Head:**

Each unit shall include two (2) polycarbonate, aluminum, or high strength composite signal head assemblies and LED lights.

Complies: Yes  No

The signal heads shall be a minimum 12” diameter and ITE approved.

Complies: Yes  No

The signal heads shall be capable of rotating and locking in 10° increments up to 180°.

Complies: Yes  No

The outer signal head shall be permanently mounted, and the inner signal head can be mounted on a mast to allow positioning over the roadway or at a lower position on the mast.

Complies: Yes  No

**Mast:**

The operating height of the upper signal shall be approximately 20’- 4”.

Complies: Yes  No

The operating height of the lower signal shall be approximately 10’- 0”.

Complies: Yes  No

The transport height shall be no higher than approximately 9’-0”

Complies: Yes  No

The mast shall be an electro/hydraulic 12-volt DC system.

Complies: Yes  No

The unit shall include one (1) switch to raise and lower the mast and one (1) switch to retract and extend the signal arm.

Complies: Yes  No

**Control System:**

The controller and any software shall be capable of the following:

* Wireless controller for setup and programming
* Control up to 16 traffic phases
* Clearing time calculator
* Ability to store preset traffic programs
* Flagger mode with remote control
* Progressive flow synchronization

Complies: Yes  No

**Control System Cabinet:**

The control panel cabinet shall be weatherproof, rodent and insect resistant by design. Cabinet shall be lockable to prevent unauthorized use. Cabinet and controls shall be mounted to the frame to provide easy access and position operator away from traffic.

Complies: Yes  No

**Detection:**

The vehicle detection system shall be equipped with a microwave sensor.

Complies: Yes  No

**Communication:**

Each unit shall be capable of communicating with the other unit wirelessly to a distance of 1 mile.

Complies: Yes  No

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| --- | --- |
| Wireless range: |  |

**Power Source:**

The unit shall be powered using solar/battery. Each unit shall contain a minimum of 450 watts of solar panels with flexible positioning and a minimum 3,600 AMP hours of deep cycle heavy duty batteries wired in a 12-volt or 24-volt DC configuration.

Complies: Yes  No

The batteries shall be in a lockable and weatherproof compartment.

Complies: Yes  No

The unit shall include a built in 110-volt charger with external plug for charging.

Complies: Yes  No

**Trailer:**

The trailer shall incorporate structural tube steel welded members.

Complies: Yes  No

The trailer shall be designed and equipped for highway operation speeds.

Complies: Yes  No

The trailer shall be equipped with lifting eyes for placement over guard rails or barriers.

Complies: Yes  No

The axle, suspension, tires and wheels shall be rated for the GAW of the unit.

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| --- | --- | --- |
| GAW rating: |  | lbs. |

The axle shall be a drop style.

Complies: Yes  No

Metal fenders with non-skid tape capable of supporting the weight of a person shall be provided.

Complies: Yes  No

Four (4) outrigger or leveling jacks shall be provided. They shall be located at each corner of the trailer deck.

Complies: Yes  No

They shall all be screw style jacks with a minimum capacity capable of leveling and supporting the unit.

Complies: Yes  No

The unit shall comply with AASHTO wind load requirements.

Complies: Yes  No

|  |  |  |
| --- | --- | --- |
| Wind load rating: |  | mph. |

The lighting shall be LEDwith a sealed and grommeted wiring harness.

Complies: Yes  No

The lighting and trailer markings shall conform to the requirements of the latest Illinois Vehicle Code edition.

Complies: Yes  No

A 3" pintle ring style hitch with a 6,000 Lb. capacity shall be provided.

Complies: Yes  No

All safety chains and hooks shall be rated according to the GVW of the loaded trailer.

Complies: Yes  No

If tandem tow option is available, it shall be included.

Complies: Yes  Not available

**Finish:**

All metal surfaces normally painted shall be prepped and painted or powder coated manufacturer’s standard color.

Complies: Yes  No

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| --- | --- |
| Finish type: |  |

**District Specific Optional Equipment and Features:**

The following optional equipment shall only be quoted when specifically called for in the “Bid”.

* Galaxy or Equivalent Operating System
* Backing Plates
* Doppler Sensors
* GPS Monitoring
* Camera/Video detection system

**Delivery:**

Two (2) copies of all operators’ manuals, parts lists, electrical schematics, and warranty information shall be provided at time of delivery to each district receiving one or more units.

Complies: Yes  No

The vendor shall furnish the unit in first class operating condition with all maintenance completed and the unit ready for operation.

Complies: Yes  No

**Training:**

Instruction must be provided by qualified factory or dealer personnel covering operation and maintenance of the unit. This training shall be provided for a minimum of two (2) IDOT representatives at the time of delivery. Training not meeting these requirements will be cause for a “Complaint to Vendor”.

Complies: Yes  No

**Warranties, Coverage and Duration:**

Full coverage warranty on all components and installation for a minimum 12 months shall be provided.

***Bidder shall attach copy of warranty with bid***. Since the continuous operation of this equipment is of the utmost importance and sometimes of an emergency nature, it is necessary that the successful bidder render prompt parts and service within the State of Illinois.

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| --- | --- | --- | --- |
| Describe warranty: |  | | |
| List service locations within Illinois: | |  | |
|  | | |

**Requirements Covering Items Detailed Above:**

All equipment cataloged as standard or safety related shall be furnished and in place and shall be included in the purchase price of the unit. Any parts, tools, and/or accessories not specifically called for but required for proper operation shall be provided.

Complies: Yes  No

List locations for parts and service:

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If **No** to any portion, explain:

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**Bid Package:**

If not quoting in BidBuy, bidders will need to send two copies of each of the following with their bid response.

a) Specification Questionnaire

b) Descriptive Literature

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| --- | --- | --- | --- |
| **Item/Description** | **Quantity** | **Unit Price** | **Total Extended Price** |
| **Item 2:** Option, Galaxy or Equivalent Operating System for Portable, Solar Powered, Trailer-Mounted, Traffic Signal System (Set of 2)  Shall be in accordance with State of Illinois Department of Transportation Specification 508-60-01, Dated August 2019.  MFR: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Model: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Estimated Delivery Time:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Days ARO  Delivery Information:  IDOT Day Labor Unit F  ATTN: Troy Gundy  722 N. Lincoln Avenue  Springfield, IL 62702  (217) 782-7416 | 1 | $\_\_\_\_\_\_\_\_\_\_\_\_ | $\_\_\_\_\_\_\_\_\_\_\_ |