State of Illinois

Department of Transportation

Bureau of Business Services

**Specifications and Questionnaire for Self-Propelled, Rough Terrain Scissor Lift**

October 2018

This specification and questionnaire covers a self-propelled, diesel powered, rough terrain scissor lift device to be used by the Department of Transportation Division of Highways to perform bridge maintenance and structure repair. In an effort to improve parts and service availability and increase tool life, the Department of Transportation is specifying units and accessories as outlined below.

Each bidder shall submit with their bid **two sets** of descriptive literature and specifications describing **all** the **equipment** and **options** proposed. This information shall be clearly marked to indicate the make, model, and accessories proposed to be furnished. If this information is not furnished, the bid may not be considered.

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

* 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.
* Parts and service for the equipment proposed are readily available within the State of Illinois.

It is the responsibility of each bidder to complete and return this questionnaire with the bid. If the questionnaire is returned incomplete or is not returned, the bid may not be considered.

**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: | | | | | |  | | | |
| Address: | | | |  | | | | | |
|  | | | |  | | | | | |
|  | | | |  | | | | | |
| Telephone: | | |  | | | |
| Contact Name: | | | | |  | | |
| Email: |  | | | | | | | |

The makes and models of the machines listed below are solely to provide bidders a minimum level of quality, size of machine requested, and basic configuration. The machines listed below also meet the Departments’ requirements for functioning under and around the bridges and structures. Our crews are required to service and repair structures, many times under extreme emergency situations and conditions. All machines quoted will be evaluated by compliance with the following specifications. Since the work performed and expected of these machines can be of an extreme emergency nature, the potential availability of parts and service will be equally important and considered in determining equality and award.

The makes and models are as follows:

Genie GS-3384 RT

JLG 330LRT

**All scissor lifts shall include the following standard or optional accessories and equipment:**

**Scissor Lift:**

Component:

|  |  |
| --- | --- |
| Make: |  |
| Model: |  |
| Installer: |  |
| Contact: |  |
| Telephone No: |  |
| Email Address: |  |

The maximum platform height extended shall be 33’.

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| --- | --- | --- |
| Maximum extended height: |  | Ft/Ins. |

The platform shall be approximately 72” wide and 154” in length, not including a 48” platform extension. The platform shall be surrounded by 43-1/2” high pipe or tubing style rail with approximately 8” toe panels surrounding the platform.

Complies:  Yes  No

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| --- | --- | --- | --- | --- | --- |
| Platform Dimensions: | |  | | | Ft/Ins. |
| Guard rail height: |  | | Ft/Ins. |
| Toe panel height: |  | | Ft/Ins. |

The platform capacity shall be rated for approximately 2,250 pounds and include a minimum of four (4) adjustable LED type flood lights mounted on or near the corners of the work platform.

Complies:  Yes  No

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| --- | --- | --- |
| Platform Capacity: |  | Pounds |

Describe lighting:

|  |
| --- |
|  |
|  |

**Platform Controls:**

The operator’s controls on the platform shall be adjustable and removable. They must include the ability raise/lower of the platform, and control forward and reverse, and steer the platform.

Complies:  Yes  No

All hydraulic cylinders shall be equipped with holding devices to prevent cylinder “creep” during extended deployment.

Complies:  Yes  No

**Accessories:**

The platform shall include the following features:

* 110 Volt A/C Receptacle

Complies:  Yes  No

Two (2) weatherproof, GFI outlets shall be wired and installed in opposite corners of the work platform.

Complies:  Yes  No

Emergency operator controls shall be located at the base for all operational features of the work platform.

Complies:  Yes  No

**Personnel Platform**

The platform shall be approximately 13’-0” long and a minimum 72” wide and be self-leveling.

Complies: Yes  No

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| --- | --- | --- |
| Describe platform and size: |  | |
|  | |

The platform shall be equipped with multiple adjustable work lights.

Complies: Yes  No

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| --- | --- |
| Describe: |  |

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**Operator’s Controls:**

Operator’s controls shall be proportional electronic joystick with a console mounted on the operator’s platform.

Complies: Yes  No

The scissor lift controls at the platform shall include all platform functions. Lift master switch, engine start/stop, platform control hi/low switch, engine speed and emergency pump switch shall be included.

Complies: Yes  No

The functions of all controls shall be permanently marked (***No decals***) and encased in a weather tight container.

Complies: Yes  No

A set of controls mounted in a secure location on the chassis shall be provided. These controls shall be capable of over-riding the platform controls.

Complies: Yes  No

**Engine:**

The engine shall be a current production, 3-cylinder, fuel injected, liquid cooled diesel and meet the following:

The engine shall have a SAE net horsepower rating of 47 H.P. at governed RPM and equipped with a cold weather starting aid.

Complies: Yes  No

Component provided:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Make: |  | | | | | | | | |
| Model: |  | | | | | | | | |
| Number of cylinders: | | |  | | |
| Horsepower @ governed RPM: | | | |  | | | H.P. | |
| Rated H.P. (Net) | |  | | | H.P. | | |

The engine shall be compliant with all current emission standards in place at the time of this bid and award.

Complies: Yes  No

**Fuel system:**

The fuel system shall be diesel and clearly labeled as such.

Complies: Yes  No

The fuel tank shall be sized properly to manufacturer’s specifications for engine supplied with unit.

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| --- | --- |
| Tank capacity: |  |

**Cooling System:**

Manufacturer’s standard cooling system with extended life antifreeze rated to -30°F.

Complies: Yes  No

**Transmission, Axles, & Drive train:**

The scissor lift shall be mounted on a severe service, rough terrain chassis, equipped with oscillating axles to provide near level setup in unlevel terrain. The scissor lift shall be powered by a hydrostatic all-wheel drive system.

Complies: Yes  No

The scissor lift shall include a 5º tilt alarm and indicator light to alert the operator of uneven terrain.

Complies: Yes  No

**Chassis:**

The scissor lift proposed must include the following approximate dimensions and capacities

Weight – 11,800 pounds

Width – 7’-9” (Maximum)

Ground clearance – 13”

Proposed scissor lift device:

|  |  |  |  |
| --- | --- | --- | --- |
| Weight: | |  | Lbs. |
| Width: |  | | Inches |
| Clearance: |  | | Inches |

**Tires:**

The tires shall be cleated for use off-road or rough terrain use and include foam filling, yet provide some give in rough terrain.

Complies: Yes  No

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| --- | --- | --- |
| Tire size: |  | |
| Foam fill product: | |  | |  |

**Auxiliary Power**

The scissor lift shall be equipped with 12-volt DC auxiliary power to operate the lift functions in the event of loss of engine power.

Complies: Yes  No

**Hydraulic System:**

The power for the mast shall be provided by hydraulic system as designed by the manufacturer.

Complies: Yes  No

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| --- | --- |
| Pump type: |  |
| Flow rating |  |

All hydraulic cylinders shall include holding valves to prevent cylinder collapse in event of hydraulic hose failure.

Complies: Yes  No

The hydraulic oil reservoir capacity shall be as required by the manufacturer and be approximately 40 gallons.

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| --- | --- | --- |
| Reservoir capacity: |  | gallons |

The hydraulic system shall include filtration to remove debris and water. The reservoir shall be mounted to provide easy access to add oil, or, change filters and screens.

Complies: Yes  No

**Miscellaneous Accessories:**

The following miscellaneous items shall be furnished and functional:

* Horn
* Hour meter
* Tilt alarm
* Tool tray (at platform)
* Lifting/tie down lugs
* 7,500-Watt generator system (capable of powering lights and tools and a welder)
* 2 each 110V-AC receptacles in the platform
* Motion alarm
* Cold weather kit with engine block heater and hydraulic heater

Complies: Yes  No

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| If no, describe: |  |

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**Paint/Finish:**

All exterior surfaces normally painted shall be cleaned, prepped, painted or powder coated manufacturer’s standard color.

Complies: Yes  No

**Manuals:**

Three (3) copies of all operators’ manuals, parts lists, and warranty information shall be provided at time of delivery to each district receiving one or more units.

Complies: Yes  No

One (1) set of “Service or Shop” Manuals shall be provided to each delivery location.

Complies: Yes  No

***Note:*** The manuals, parts lists, and service or shop manuals listed above may be furnished on DVD in lieu of paper.

**Training:**

The successful bidder shall supply training of Department of Transportation personnel. Training shall cover routine service, and minor repair. A second phase shall include the training of selected individuals as operators. The length of the operator’s training shall be a minimum of two (2) working days but may be extended by the receiver if deemed necessary.

Complies: Yes  No

A training video (if available) covering the operation of this equipment shall be provided with the training.

Complies: Yes  No

**Requirements Covering Items Detailed Above:**

All equipment cataloged as standard 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

The component parts of the unit shall be of proper size and design to safely withstand maximum stresses imposed by a capacity load, and the manufacturer's rated loads for all component parts shall **not** be exceeded when the unit is so loaded.

Complies: Yes  No

Full coverage warranty for a minimum 12 months shall be provided for all components and their installation. The bidder shall attach a copy of warranty with the bid.

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| --- | --- |
| Describe warranty: |  |
|  | |

**Delivery:**

This machine is to be delivered in first-class operating condition with acceptance subject to Department of Transportation approval.

Complies: Yes  No

**Bid Package:**

Bidders will need to send two copies of each of the following with their proposal.

1. Specification Questionnaire
2. Descriptive Literature

Complies: Yes  No

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| If NO to any portion, explain: |  |
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