# -60-06

State of Illinois

Department of Transportation

Bureau of Business Services

**Specifications and Questionnaire for a Deck Between the Wheels, Drop–Deck Load, Tandem axle, Tag Trailer with Electric Brakes**

Load capacity of 12,000 Lbs.

August 2019

This specification is designed to aid the Department of Transportation in the purchase of an efficient and dependable 12,000 lbs. capacity, Full drop-deck, tandem axle, tag trailer for maintenance operations.

All bidders are expected to quote upon a manufacturer's latest standard conventional model complete with all standard equipment plus any optional or special equipment required meeting the following specifications. Deviations from these requirements in efforts to obtain extremely low prices will not be acceptable.

Each bidder shall submit with his 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.

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 Proposal 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.

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

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

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

**Proposed With This Bid:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Make: |  | | | | | | |
| Model: | |  | | | | | |
| Manufactured by: | | | | | |  | |
| Bidder: | | |  | | | | |
|  | | | | |
| Contact name: | | | | |  | |
| Telephone: | | | |  | | |
| 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’ judgement, 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:**

Manufacturers’ standard warranty shall be provided. **Bidder shall attach copies of warranty with 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 subcontractors’ 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

|  |  |  |  |
| --- | --- | --- | --- |
| 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.**

**Trailer Type:**

Tag style, Tandem axle, deck between the wheels (4 wheels on the ground), Full Drop-deck, ground level load trailer.

Complies: Yes  No

**Capacity:**

12,000 lbs. minimum payload capacity at a highway speed of 55 M.P.H.

Complies: Yes  No

|  |  |
| --- | --- |
| Capacity at 55 mph: |  |

**Frame:**

Channel, wide flange beam or tubular steel with gussets capable of supporting in excess of the rated trailer capacity.

Complies: Yes  No

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| --- | --- | --- | --- | --- |
| Main beam description: |  | | | |
| Main beam size on chassis: | |  | Lbs./ft. |

All frame members shall be 50,000 psi. minimum, steel main-rails from front to drawbar to rear of trailer.

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| Steel rating: |  | PSI |

Main beams on drop-deck platform shall be a wide flange beam, channel, tubular steel or equivalent.

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| --- | --- | --- | --- | --- |
| Main beam size on tilt platform frame: |  | In. wide flange |  | Lbs./ft. |

Crossmembers shall be designed, sized and spaced to meet trailer GVW specifications. The manufacturer shall use the shaped member to meet or exceed the specified

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Crossmember size: | |  | | @ |  | | Lbs./ft. | |  | |
| Weight/length on |  | | Centers | | |  | |  | |  | | centers |

Side rails shall be approximately 4" structural channel, tubular, or wide flange beam.

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| --- | --- | --- | --- | --- |
| Channel/tube size: | |  | Inches | |
| Weight/length: |  | | | Inches | |

**Trailer Deck:**

Type –Full Drop-deck with ground level loading.

The overall deck length shall be approximately 14’ with knife edge approach.

Maximum overall width - 102". The drop-deck width shall be a minimum 72”.

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| --- | --- | --- | --- | --- | --- | --- |
| Full trailer width: | |  | | | Inches | |
| Drop-deck width: | |  | | | Inches | |
| Length: |  | | | Feet/Inches | |
| Stationary length/in.: | | |  | | | Inches | |

Complies: Yes  No

The drop-deck shall be full reinforced diamond tread plate over steel frame. The rear of the drop-deck shall have a tapered (Knife edge design) approach angle. Primary use for trailer will be hauling Tandem Vibratory Roller.

Complies: Yes  No

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| --- | --- | --- | --- | --- |
| Diamond tread plate thickness: | |  | Inches | |
| Type of approach: |  | | |

The drop-deck portion of the trailer shall have a single or dual lift/drop cylinder(s) rated for maximum load capacity of the trailer.

Complies: Yes  No

|  |  |  |
| --- | --- | --- |
| Type and Capacity of cylinder(s): |  | Lbs. |

The lift/lowering mechanism shall be self-contained electric over hydraulic.

Complies: Yes  No

**Fenders:**

The fenders shall be full coverage steel plate design, stationary with axle assemblies. They shall be equipped with mud flaps to the rear. The mud flaps shall be black in color with no logo.

Complies: Yes  No

**Tongue:**

Shall extend approximately 48" ahead of the deck. If an extended tongue option is available, it shall be included.

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| Tongue length: |  | Feet/Inches |

***Note:*** This is important to provide turning clearance for trucks equipped with tailgate spreaders.

The tongue shall be an “A”-frame, designed with ample safety factor to withstand a minimum 20 percent of the rated gross vehicle weight of the trailer. The tongue shall be equipped with a lockable tool box lid for storage.

Complies: Yes  No

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| --- | --- | --- |
| Load rating: |  | Lbs. |

**Load Transfer:**

The trailer shall be capable of transferring a minimum of 15 percent and a maximum of 20 percent of its load to the towing vehicle.

Complies: Yes  No

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| --- | --- | --- |
| Weight transfer percentage with centered load: |  | Percent |

The trailer shall be clearly marked, visible on both sides, where 15 percent and 20 percent of the load transfer occurs.

Complies: Yes  No

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

**Deck Accessories:**

Tie Down Eyes – Minimum of 8 “D” rings equally spaced 4 on each side of the drop-deck.

Complies: Yes  No

The tie down eyes or “D” rings shall have a rated capacity of 15,000 lbs. each.

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| --- | --- |
| Rated capacity: |  |

Headboard – Full width across front of deck

Complies: Yes  No

**Brakes - Electric:**

Type- All wheel brakes, the electric brake system shall be installed on both axles. All components shall be rated to perform to all safety standards for the GAWR and the capacity of the trailer specified.

Complies: Yes  No

**Breakaway System:**

The electric brake system shall include a sealed breakaway safety system.

Complies: Yes  No

**Auxiliary Solar Charger:**

Solar charger to maintain on board battery for lift mechanism.

Complies: Yes  No

**Axles:**

Type – Swing-arm design. Capacity at Ground 14,000 lbs. minimum.

Complies: Yes  No

Component:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Make: |  | | | |
| Model: |  | | | |
| Capacity: | |  | Lbs. |

**Suspension:**

Type– Dexter or equal suspension as required and recommended for tandem axle configuration.

Total Capacity at Ground - 14,000 lbs. minimum

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| --- | --- |
| Suspension type: |  |

Component:

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| --- | --- | --- | --- | --- |
| Make: |  | | | |
| Model: |  | | | |
| Capacity: | |  | Lbs. |

**Wheels:**

Type – Automotive style, cast spoke or steel disc, 8-lug

Rim Size - 16 X 6.75 HC minimum

Wheel Seals - Oil type

Complies: Yes  No

Component:

|  |  |  |
| --- | --- | --- |
| Make: | |  |
| Model: | |  |
| Type: | |  |
| Size: |  | |

**Tires:**

Type– New first run, Tubeless, radial, trailer, designed primarily for on highway use.

Size – 16” – 12-ply, or as needed to meet GVWR

Component:

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| --- | --- | --- |
| Make: |  | |
| Model: | |  |
| Load rating: | |  |
| Size: | |  |

One spare tire and wheel provided and mounted according to manufacturer’s standard.

Complies: Yes  No

**Mud flaps:**

Type – Anti sail with brackets mounted behind rear wheels. Black in color, no logo.

Complies: Yes  No

**Hitch:**

Type - Pintle eye for use with Premier Model 2200 latching hook.

Capacity – 30,000 lbs. Gross trailer weight. Minimum 15,000 lbs. Tongue weight, Inside diameter 3 in.

Height – The usual pintle hook height on IDOT dump trucks is approximately 25” from level ground. The hitch provided must include the ability to pull the trailer level. The hitch shall also provide the capability to position the eye in multiple mounting locations. The pintle mounting plate shall be approximately 19” high, with multiple mounting holes for the eye.

Complies: Yes  No

Component:

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| --- | --- | --- | --- | --- | --- |
| Make: |  | | | | |
| Model: |  | | | | |
| Adjustment height: | |  | to |  |

**Safety Chains:**

Type - 1/2" steel chain, Grade 70, with matching rated hooks

Location - Outside of hitch frame.

Complies: Yes  No

**Landing Stand(s):**

Type – 8,000 lbs. capacity, single-speed, bolt on jack.

Complies: Yes  No

Component:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Make: | |  | | |
| Model: |  | | | |
| Capacity: |  | | Lbs. |

**Electrical System:**

Type - 12 volt

Complies: Yes  No

**Lights (LED):**

Combination Rear Tail, Turn and Stop Signal:

Type - Dual combination Class A, sealed, shock mounted, LED 4” minimum Truck Lite Super 44 or equal.

Location - Rear of trailer, recessed for protection

LensColor - Red

Complies: Yes  No

**License Plate Lamp:**

Type- Sealed LED Truck-Lite Model 15 series or equal.

LensColor - Clear

Complies: Yes  No

**Rear Identification Lights (3-Bar):**

Type-Shock mounted LED Model 15 or 35 Truck-Lite ID bar series or equal.

Location - Rear of trailer, recessed for protection

Lens Color - Red

Complies: Yes  No

**Clearance Lights:**

Type - LED Truck-Lite Model 15, 18 or 21 series or equal

Location - As required

Complies: Yes  No

**Lights and Reflectors:**

Must meet all federal and SAE regulations and comply with the Illinois Law and Vehicle Code in effect at the time of manufacture.

Complies: Yes  No

DOT approved reflective conspicuity tape shall run entire length of trailer.

Complies:  Yes  No

**Wiring:**

Wiring shall be complete 12 volt with sealed modular wiring harness. All connections shall be in a weatherproof junction box. Quick-disconnected splices, soldered and covered with shrink-wrap are not acceptable.

Complies: Yes  No

All lights, wiring, and junction boxes shall combine to form a sealed waterproof system similar to Truck-Lite's 50800 series or equal for commercial vehicles utilizing standard production wiring harnesses where practical.

Component:

|  |  |  |
| --- | --- | --- |
| Make: |  | |
| Model: | |  |

All lamp connections and all junction box post connections shall be treated with a corrosion inhibitor.

Complies: Yes  No

All wiring passing through metal shall be protected by formed rubber grommets.

Complies: Yes  No

**Note**: Use of garden or other styles of hose as grommeting is ***not*** acceptable.

All wiring not in conduit shall be secured utilizing nylon or coated clamps fastened to the frame at 18" minimum spacing.

Complies: Yes  No

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| --- | --- |
| If NO, please explain: |  |
|  | |

**Truck Connection for Lighting and Electrical:**

Type – 7-way connector, utilizing round pins and sockets, SAE/ATA approved, socket portion installed on trailer lead, pin portion is provided with the truck installation (See diagram on last page).

Complies: Yes  No

**Paint/Finish:**

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

Complies: Yes  No

All under carriage not painted or powder coated shall be coated with an automotive type corrosion prohibitor.

Complies: Yes  No

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

**Additional Features and Options:**

***Note:*** These should only be furnished if called for in the bid line item.

**Brake Connections:**

A brake controller and cable shall be provided for mounting in the truck cab. Mounting of the brake controller and cable to be performed by others.

Complies: Yes  No

**Manuals:**

One copy of “Service or Shop” manual shall be provided to each delivery location.

Complies: Yes  No

Three 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

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

**Requirements Covering Items Detailed Above:**

The trailer shall be furnished complete with all safety components that are required by the current Federal Safety Standards for the size trailer proposed.

Complies: Yes  No

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

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 manufacturers rated loads for chains and bearings shall not be exceeded when the unit is loaded with such loads.

Complies: Yes  No

Standard tool kits shall be supplied if required.

Complies: Yes  No   Not required

Full coverage warranty for a minimum **12 months** shall be provided. Bidder shall attach copy of warranty with bid.

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

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 be in a position to render prompt parts and service. Review of the bidder's ability to provide prompt parts and service within the State of Illinois will be considered.

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| --- | --- |
| List sources for parts and service : |  |
|  | |
|  | |

The vendor or manufacturer of the unit which is considered for award shall, at the request of the State of Illinois, demonstrate this equipment within the receiving District in the State of Illinois in the presence of authorized state personnel to prove out any features which may be in question.

Complies: Yes  No

**Delivery:**

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

Complies: Yes  No

The trailer shall be delivered oiled, greased, serviced and ready for operation.

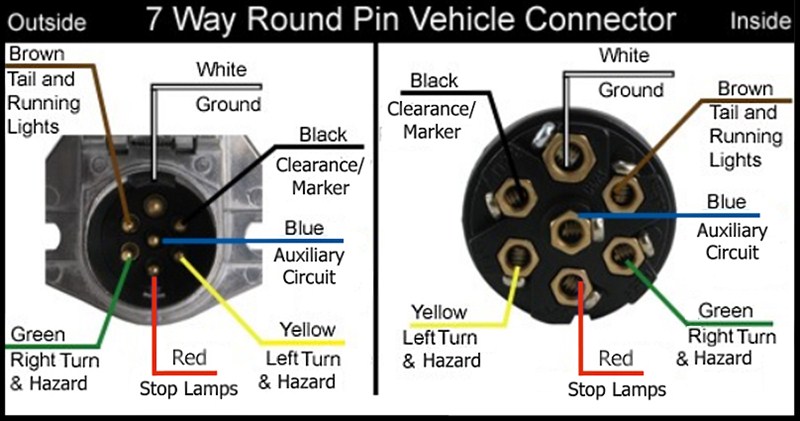
Complies: Yes  No

**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



Picture is for visual reference only. Do not scale from picture.

