State of Illinois

Department of Transportation

Bureau of Business Services

**Specifications and Questionnaire for Detachable Hydraulic Gooseneck, Tandem Axle Trailer**

70,000 Lbs. Minimum Load Capacity

July 2019

This specification and questionnaire covers a detachable hydraulic gooseneck trailer for use by the Department of Transportation. The Department of Transportation is specifying acceptable units by required equipment and accessories as outlined below.

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

Bidders quoting on equipment must submit with their bid.

* 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.

**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:**

Unless otherwise specified, the 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

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

**Unit shall include the following standard or optional accessories and equipment:**

**Trailer Type:**

Drop deck type (lowboy) with hydraulically removable gooseneck and two (2) axles with eight (8) pneumatic tires.

|  |  |
| --- | --- |
| Number of tires: |  |
| Number of axles: |  |

Non-ground pressure style lifting device shall be provided.

Complies: Yes  No

|  |  |
| --- | --- |
| Describe lifting method: |  |
|  | |

Width of the trailer deck shall be approximately 102”.

Complies: Yes  No

|  |  |  |
| --- | --- | --- |
| Deck width: |  | Inches |

Platform length: From the back of gooseneck to rear of drop deck (clear deck load space) shall not be less than 24’.

|  |  |  |
| --- | --- | --- |
| Clear Deck length: |  | Feet |
| Trailer weight equipped as specified: | |  | | Lbs. |

**The trailer's capacity shall be calculated as:**

The ability to transport 70,000 lbs. concentrated load in 16'-0" at 60 mph.

Complies: Yes  No

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| List rating: |  | | Lbs. | | |
|  | | Ft. in length @ | |  | MPH | |

The trailer shall have adjustable air-ride height control. The controls shall be located for convenient operator access.

Complies: Yes  No

This trailer shall comply with all current Federal and State Safety Standards.

Complies: Yes  No

**Gooseneck:**

The gooseneck shall be height adjustable, accepting 5th wheel heights from 48" to 51".

Complies: Yes  No

|  |  |
| --- | --- |
| If No Describe: |  |

The gooseneck shall be an extended style and provide a minimum of 98" swing clearance.

|  |  |  |
| --- | --- | --- |
| Swing clearance: |  | Inches |

The gooseneck shall be hydraulically operated.

Complies: Yes  No

The gooseneck support shall be self-contained.

Complies: Yes  No

**Deck:**

Cambered deck with a maximum transport height of 24" when loaded.

|  |  |  |
| --- | --- | --- |
| Loaded deck height: |  | Inches |

**Note:** Must be measured when coupled to the truck and provide adequate ground clearance for normal highway operations.

Deck beams and structural members shall be constructed of a minimum T-1 (80,000 psi.) “I” beam steel.

Complies: Yes  No

|  |  |
| --- | --- |
| Describe steel beams: |  |
|  | |

The outside deck beams shall include flange reinforcement.

Complies: Yes  No

|  |  |
| --- | --- |
| If No Describe: |  |
|  | |
|  | |

Trailer shall have an open center load deck with a minimum 1-1/2" oil or sealed Oak, Apitong or equal hardwood floor material drilled and bolted to structural members. The center shall allow for additional plank storage. (“Cat Walks" or raised center beams do not meet these requirements).

Complies: Yes  No

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Deck material: |  | | |  |
| Deck thickness: | |  | | Inches |
| Describe method of attachment: | | |  | | |
|  | | | | | |

A knuckle/ boom well, including the final three (3) deck cross-members and the cross-members at the rear axles shall be provided.

Complies: Yes  No

|  |  |
| --- | --- |
| Describe cross-member configuration: |  |
|  | |
|  | |

The area above the rear axles shall be “open grated” to store such items as cribbing, chains, and binders to ensure they will drain and not retain water.

Complies: Yes  No

A minimum of 11 heavy-duty outriggers per side shall be provided, mounted on a maximum of 24" centers for the length on both sides of the deck. The outriggers shall be swinging, pin-able style.

Complies: Yes  No

|  |  |  |  |
| --- | --- | --- | --- |
| Quantity provided: |  | |  |
| Describe outriggers: | |  | | |
|  | | | | |

Two (one for each side) extra heavy-duty or double outriggers shall be provided for the front of the deck at the loading ramps. The single outriggers shall be easily removable or stored and capable of supporting loads at the trailer's capacity.

Complies: Yes  No

Front loading ramps shall be a minimum 16" wide. They shall be double hinged and include welded on grouser bars to provide traction for track type equipment. A full width center ramp with oak, Apitong or equal hardwood insert shall also be provided.

Complies: Yes  No

|  |  |
| --- | --- |
| If No Describe: |  |
|  | |
|  | |

Wheel bolsters/openings shall be reinforced load bearing diamond tread plate over the first and second axles.

Complies: Yes  No

Each wheel bolster shall have a reinforced "Bent D" tie down ring or 360 degree swivel ring.

Complies: Yes  No

A minimum of five (5) reinforced “Bent D” tie down rings or 360 degree swivel rings shall be evenly positioned between the outriggers on each side of the trailer.

Complies: Yes  No

Two (2) additional reinforced tie down rings shall be mounted to the top frame rails of the gooseneck.

Complies: Yes  No

Rear anti-sail mud flaps shall be included.

Complies: Yes  No

**Axles:**

Tandem axles with a minimum capacity of 25,000 lbs. each and spaced not less than 49" apart.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number of axles: | | |  |  | |
| Axle spacing: | |  | | Inches center to center | |
| Axle rating: |  | | | | Lbs. |

The axles shall be mounted to the trailer frame in such a way as to reduce twist and strain on trailer when road irregularities are encountered.

Complies: Yes  No

Shall have Air-Ride suspension to provide for full trailer rated capacity and ride height adjustment for all axles.

Complies: Yes  No

**Hydraulic Attachment/Detachment:**

The gooseneck attachment and detachment must be accomplished entirely at full capacity using a tractor mounted hydraulic "wet pack."

Complies: Yes  No

Controls shall be mounted for easy access by operator.

Complies: Yes  No

**Tires and Wheels:**

Tires shall be tubeless radial 255/70R22.5 (H) or as needed to meet load capacity.

|  |  |  |  |
| --- | --- | --- | --- |
| Size: |  | | |
| Load rating: | |  | |
| Tread type: | |  | |
| Manufacturer: | | |  | |

Wheels shall be steel, ten (10) hole/lug, hub piloted disc type.

Complies: Yes  No

|  |  |
| --- | --- |
| Size: |  |

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

Complies: Yes  No

Oil type wheel bearing seals shall be provided in all hubs.

Complies: Yes  No

Hub assemblies shall provide for visual indication of oil level.

Complies: Yes  No

One of the right wheels shall also be equipped with a hub-odometer, designed for the size of wheel and tire proposed to be furnished. The hub-odometer hub assembly shall also allow easy oil level checking.

Complies: Yes  No

Component:

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

Each set of dual wheels shall include a Crossfire Dual Tire Pressure equalization system (or IDOT approved equal) to equalize tire pressure between the dual tires. This feature shall also provide isolation should one tire experience a 10 psi loss.

Complies: Yes  No

Component:

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

**Brakes:**

The axles shall be equipped with ABS air brakes to be of a size and design that will provide adequate control for a full capacity load under all circumstances. The parking brake shall be spring design.

Complies: Yes  No

The brakes provided shall comply with all State and Federal regulations for trailers of the capacity specified.

Complies: Yes  No

One standard air brake connector kit shall be provided with each trailer. The glad hands shall be Meritor Wabco part number 952 201 018 0 filtered units or IDOT approved equal

Complies: Yes  No

The trailer shall be furnished with bright colored, coiled air lines at the gooseneck.

Complies: Yes  No

**Wiring and Lights:**

**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.

All lights, wiring, and junction boxes shall combine to form a sealed waterproof system, 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 bolted to the frame at 18" minimum spacing.

Complies: Yes  No

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

**Truck Connection for Lighting and Electrical:**

Type – Heavy all-weather cord with 7-way connector, utilizing round pins and sockets, SAE/ATA approved, plug portion installed on trailer with lead long enough to allow for turning movements of the trailer. The pin portion or socket is provided with the truck installation.

Complies: Yes  No

Amber strobe lights shall be included in the tail-plates behind the rear axle located in the far outside corners to be operator activated when the trailer is to be used to transport over-width loads.

Complies: Yes  No

Component:

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

**Other Equipment and Accessories:**

Removable “Wide Load” signs and holder brackets shall be included in the tail-plates behind the rear axle.

Complies: Yes  No

Standard tool kit shall be supplied, if required.

Complies:  Yes  No  Not required

**Paint/Finish:**

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

Complies: Yes  No

|  |  |
| --- | --- |
| Describe Paint/Finish: |  |

**Additional Accessories:**

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

**Gooseneck Upper Deck:**

The unit shall include upper deck for gooseneck to haul additional items. It shall include tie down rails on both sides.

Complies: Yes  No

**Power Pack:**

Lifting capability shall be provided by a minimum 12 horsepower gasoline engine with a selector valve for switching to wet kit hydraulics.

Complies: Yes  No

This unit must be capable of operation at full trailer capacity and capable of adapting to a tractor mounted "wet pack."

Complies: Yes  No

Hydraulic reservoir shall be as required by manufacturer.

|  |  |  |
| --- | --- | --- |
| Capacity: |  | Gallons |

**Full Coverage rear deck:**

This option shall provide a full load bearing reinforced coverage rear deck with a reduced approach angle for loading wheeled or drum equipped equipment.

Complies: Yes  No

**Manuals:**

Two (2) 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 CD/DVD or Flash drive in lieu of paper.

Instruction must be performed by qualified factory or dealer personnel covering the operation and routine service and maintenance of the equipment shall be provided upon delivery. The training shall be for all personnel in the assigned headquarters location of the equipment.

Complies: Yes  No

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

***Note:*** This is not a sales call. Training not meeting IDOT expectations will be cause to generate a “Complaint-to-Vendor”.

**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 of **12 months** shall be provided. Bidder shall attach copy of warranty with bid.

Complies: Yes  No

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

Transportation to complete any warranty repair required for the equipment and/or specified accessories or options shall be the responsibility of the bidder or dealer acting as his agent.

Complies: Yes  No

**Repair Parts and Service:**

Since continuous operation of this trailer is of the utmost importance and many times of an emergency nature, it is necessary that the successful bidder be in a position to render prompt parts and service within the State of Illinois.

|  |  |
| --- | --- |
| 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

|  |  |
| --- | --- |
| If NO to any portion, please explain: |  |
|  | |
|  | |

**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