**51 TON DETACHABLE GOOSENECK TRAILER**

**GENERAL:** Trailer to be bid will be a 51-Ton payload capacity, heavy Duty detachable goose neck trailer. Trailer bid shall be of the manufacturer's current design and production. Discontinued models or used trailers are not acceptable. All items normally furnished with this type of trailer shall be furnished whether or not they are specifically stated.

Gooseneck Trailer will be used by The Nevada Department of Transportation for vocational use at road speeds up to 75 mph at gross vehicle weight at manufacturers rated specification.

Specify Mfr. & No. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Specify Road Speed \_\_\_\_\_\_\_ MPH @ \_\_\_\_\_\_\_RPM

**MODEL & ASSEMBLY:****COMPLIES\_\_YES NO\_\_\_**

1. The Trailer must be a model that has been produced and sold to the commercial trade for the last three (3) years (Trailer must be new, not used). Though they are not specifically covered herein, all parts necessary to provide complete and functional Trailer must be provided. All parts must conform in design, strength, quality of materials and workmanship to current engineering practices and accepted standards of the industry. All parts must be the manufacturer’s standard unless otherwise specified in this ITB.

2. The Trailer must be assembled and adjusted, per the manufacturer’s standards, and be ready for operation upon delivery.

**DESCRIPTION: COMPLIES\_\_YES NO\_\_\_**

1. Type – Detachable Goose neck.

2. Size – 51-ton lb. payload capacity rated at 75 miles per hour (MPH).  
 3. Width – 102 inches with three sets of flag holders

4. Length – 53’

5. Neck length – 12’ with five positions

6. Deck Height – Maximum of 20 inches fully loaded in travel position

7. 5th Wheel Height – 50”

**FRAME: COMPLIES\_\_YES NO\_\_\_**

1. Material – High tensile quality steel, free from defects.

2. Capacity – Designed to withstand 102,000 lb. load concentrated in 16 ft. any where in the load well.

**CONSTRUCTION: COMPLIES\_\_YES NO\_\_\_**

1. Type – 4-Beam construction.

2. Beams – 14” I-beam type with web constructed of 80,000 pounds per square inch (PSI)

high- tensile steel and flanges constructed of 100,000 PSI yield strength steel.

3. Web Stiffeners – Located at high-load points.

4. Cross Members – 80,000 PSI high-tensile steel pierced through main beams at 12 in. centers.

5. Decking – 1.5 in. thick Apitong hardwood decking fastened securely with 5/16 in. torx screws.

6. Overall length Length – 53’

7. Gooseneck – Trailer must be designed to be towed by a truck with a 48 in. fifth wheel height.

8. Non ground bearing lift.

9. 12” removable swingout outriggers on 2’ centers with Apitong wood for outriggers to be included. (four pieces of wood)

**SUSPENSION: COMPLIES\_\_YES NO\_\_\_**

1. Type – Air ride type.

2. Axles – Three (3) 25,000 lb. rating each axle, air lift on rear axle and minimum 50” axle

spacing. Specify axle spacing \_\_\_\_\_\_\_\_

3. Steel Wheels – 8.25x22.5 steel disc hub piloted.

4. Tires – 255/70R 22.5, dual load rating of 5,675 lb. each radial tire. Tires must be Goodyear, Michelin, Bridgestone or Cooper. Thirteen (13) total (Twelve (12) tires on trailer, one (1) spare tire and wheel.

5. Seals – Oil bath type.

6. Brakes – 16 1/2 in. x 7 in. air brake S-cam type with automatic slack adjusters.

7. Shock Absorbers – Located on all three (3) axles.

8. Dump Valve – For releasing air in air bags during loading and unloading with manual adjust.

9. Emergency Brakes – Spring applied, and air released on all axles.

10. Spare Tire – Mounted on the gooseneck.

**WHEEL COVERS: COMPLIES\_\_YES NO\_\_\_**

Shall be Removable, tread plate, and shall cover the entire rear platform area.

**STORAGE:**

Two (2) storage baskets in front of bed with lids

**LIGHTING: COMPLIES\_\_YES NO\_\_\_**

1. LED Lighting System – All trailer lighting will be light emitting diode (LED) including stop, turn, tail and clearance lights per Department of Transportation (DOT) specifications.

2. Wiring – All wiring that is run through cross members must have rubber grommets in cross members.

3. Sealed Lighting – All lighting will be a sealed light system, rubber mounted.

4. Rear strobes with battery backup.

**SAFETY: COMPLIES\_\_YES NO\_\_\_**

1. Flag Holders – Six (6) 1 in. diameter, 3 on each side of the deck.

2. Conspicuity – Continuous red and white reflective, Federal Motor Vehicle Safety Standards (FMVSS).

3. Load Securement System – Trailer must have a load securement system that can use chains and load straps. Trailer must have D rings 7 each side, 1on each bolster, 1 on each side of RG and chain slot on 24”centers down center and on bolsters.

**HYDRAULICS: COMPLIES\_\_YES NO\_\_\_**

1. Hydraulic source to be supplied by a minimum 11 HP aux. engine/pump mounted in base of neck or by NV DOT transport tractor truck with 18 gal. per minute (GPM) at 2,250 PSI flow.

**Note:** Hydraulic lines need to be run in such away they can be coupled to the truck or aux. engine/pump with quick couplers.

Specify auxiliary engine make and HP \_\_\_\_\_\_\_\_\_\_\_

2. Hydraulic Controls – Gooseneck raise and lower, must be located on the left side of the gooseneck.

a. Hydraulic valves and hoses must be equipped with joint industry council (JIC or ORFS) fittings.

b. Hydraulic disconnects must be of sufficient size as to not restrict flow.

c. Hydraulic hoses must be of sufficient size as to not restrict flow.

**WINCH: COMPLIES\_\_YES NO\_\_\_**

1. Winch – 20,000 lb. hydraulic winch mounted over the gooseneck area with winch guard and cable roller.

2. Winch to be operated by wireless remote control.

3. Cable – 100’ x 5/8 in. steel cable with hook.

**PAINT, STRIPING ACCESSORIES: COMPLIES\_\_YES NO\_\_\_**

1. The Trailer must be sand blasted, cleaned, Epoxy prime coated and then urethane painted per the paint manufacturer’s process for the application. The prime coat(s) and paint coat(s) must be a minimum dry thickness of 4 mils total (2 mil. prime coat and 2 mil. paint coat). If powder coat is used as the final topcoat, the powder coat must be ultraviolet resistant. The Trailer must be smooth and free of rust, runs, overspray, peeling, weld splatter and other defects.

2. Color – White

3. Reflective Striping – DOT conspicuity tape.

4. Accessories – One (1) weatherproof registration holder must be attached to the Trailer.

**ALIGNMENT – Pre-Delivery Inspection: COMPLIES\_\_YES NO\_\_\_**

1. Alignment – Trailer must be aligned prior to delivery of the trailer to NV DOT. Alignment sheet must accompany trailer at time of delivery.

2. Pre-Delivery Inspection (PDI) – A PDI must be performed prior to delivery of trailer to NV DOT. The PDI must be signed, dated and a copy provided to NV DOT upon delivery, by the technician performing the inspection. The PDI must include, but not be limited to, tire pressure, wheel bearings and hydraulics. *If the Trailer is delivered without a copy of the PDI, the Trailer may be immediately rejected by NV DOT. Inspection and determination of acceptance by NV DOT will not begin until a copy of the PDI is received.*

**GENERAL BID REQUIREMENTS**

**NOTE: THE FOLLOWING REQUIREMENTS PERTAIN TO ALL ITEMS LISTED WITHIN THIS BID SPECIFICATION.**

**DELIVERY/PAYMENT:** Delivery shall be considered complete and ready for payment process once all ancillary, allied, optional equipment, and manuals have been received, all systems checked against the specifications and the complete unit is deemed operational.

**LINE SHEET**:  Two (2) Line set tickets shall be furnished with each vehicle.

**MANUALS:** For each vehicle being built, including cab and chassis, ancillary, allied or optional equipment purchased as built, the following manuals shall be available in hard copy, online or Flash Drive format.

* Two (2) Parts Catalogs
* Two (2) Shop Manuals
* Two (2) Operator's Manuals
* Two (2) Operator Training DVD’s/flash drive
* Two (2) Electrical System Schematics/Drawings
* **Note:** Vendor to provide all information and / or hyper-links for access to manufacturers online manuals and training.

**PRE-BUILD MEETING:** Awarded vendor shall schedule a Pre-Build meeting within two weeks of bid award, prior to manufacturing/fabrication, to confirm all build specifications and dimensions.

**PRE-DELIVERY SERVICE:** Awarded vendor shall perform a complete pre-delivery service prior to delivering the unit to NDOT.

* All Fluids filled to proper levels.
* Cooling system shall be checked and filled to proper level and shall contain extended life antifreeze to -34° Fahrenheit.
* All lights shall be checked to confirm they are in working order.
* All functions of this unit, including all ancillary, allied and optional equipment shall be checked and in working order prior to delivery to NDOT.

**SPECIFICATION CONFIRMATION:** Factory confirmation of specifications ordered required

ASAP after order is placed.

**TRAINING:** The successful bidder shall be requested to provide a qualified factory authorized service representative to provide four (4) hours mechanical and four (4) hours operator training at the following end users location(s) in Elko for an estimated 5 to 50 employees.

**WARRANTY, MAINTENANCE AND RECALL REQUIREMENTS:** See additional requirements.

**WELDING:**

* All welds shall be continuous welds on all seams. Skip welds shall not be acceptable.
* All welds shall be free of slag inclusions and under cut. Fillet weld sizes shall be equivalent to the thickness of the least of the jointed plates.
* All material installed shall be new and free of rust.
* All metal shall be thoroughly cleaned, acid etched, primed, and painted at a minimum of 5 mil thickness
* Shall be free of all cracks, dents and defects due to metal fatigue or physical damage.
* All welding shall be done by human and or machine and shall meet or exceed the American Welding Society Standards. (Certificates available upon request).
* All welds shall be done using the same welding consumables as the material being welded (no mild steel on stainless steel).

***NOTE: Any exceptions to specifications must be noted on a separate document and uploaded into NevadaEPro with your proposal.***

**OPTIONS:**

12” removable swingouts on the main deck 2’ o/c close to rear approach as possible with out rigger planks and outrigger board splice bridges 3 per side (6 Total)