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SPECIFICATIONS

029930
MATERIAL SCREENER, TRAILER, PROPANE ENGINE, W / STACKING CONVEYOR

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February 23, 2023, GAW

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SPECIFICATIONS

I. GENERAL TRAILER SPECIFICATIONS:

A. INTENT STATEMENT:

The purpose of these specifications is to describe a portable propane engine powered material screener, trailer, with stacking conveyor. Trailer shall be rated at 65 MPH road travel. Reference: PITBULL 2300P.

Pennsylvania Department of General Services, PCID No. 1075, "*General Requirements for Bidding PENNDOT Vehicles/Equipment*", most current version effective at the time and date of bid opening, is included as a part of this specification. PCID No. 1075 may be reviewed and downloaded from the Department of General Services website, <http://www.dgs.state.pa.us>.

Delivery as required per Department of General Service PCID NO. 1075 Section "G". All units must be delivered within **220** days after receipt of the purchase order by the successful bidder.

It is understood that the components specified are minimum and manufacturer's Engineering Department recommends or deems necessary, particular weight distribution, a larger component or a larger GAWR totally. The burden of responsibility is hereby placed upon the Manufacturer's Engineering Department to supply a unit that is totally engineered.

It shall be understood that any discrepancies/deviations between the specification and the completed unit(s), chassis, or body up-fitter related, must be addressed and corrected prior to the delivery deadline and the Departments acceptances.

Trailers must be delivered at ground level (stacking is unacceptable).

Warranty per PCID 1075, Section E 1, Construction Equipment – (2 years).

B. TRAILER COMPONENTS:

AXLE/BRAKES/SUSPENSION/TIRES/WHEELS:

Mobile home type axles and wheels are unacceptable. Axle and wheels shall be properly sized within all requirements and ranges to meet the specification.

Single axle 10,000 LB. (minimum) Torq-flex with oil bath wheel hubs. OEM standard electric brakes, with safety breakaway control. Standard hydraulic operated axle lift and positive mechanical axle locks for transport position on axle.

17.5" steel wheel 8 stud mount 245/75R radial tires Load range H, 16-ply rating.

One-piece rims. There shall be one spare wheel and tire assembly, mounted on a lockable bracket assembly.

DIMENSIONS & FEATURES:

Completed unit shall not exceed in travel mode: 102-inch maximum width, approximate 34-feet in length and 10-feet in height.

Hopper shall be approximately 8-feet 11-inch in height, 11-feet in width for operating.

Two tier shaker table with loading apron and quick-change screen panel tensioning system shall be supplied with screen sizes for 2-inch and 3/4-openings.

A metal identification tag stating manufacturer's information, model number, serial number and date of build shall be affixed to unit.

All pivot points shall be of the "heavy duty" design and shall incorporate easily accessible zerk fittings.

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SPECIFICATIONS

I. GENERAL TRAILER SPECIFICATIONS: (Continued)

B. TRAILER COMPONENTS: (Continued)

ENGINE/ACCESORIES:

Minimum 48 HP, 4-cylinder propane gas. Mounting brackets and plumbing included to accept two (2) 48LB. propane tanks. Heavy-duty dual element dry type air cleaner. exhaust system including catalytic converter & muffler. Exhaust shall be directed as to not allow water or snow to enter, and properly shielded to protect personnel from burns.

Factory set electronic engine control shall be digital and provide menu of systems status.

Machine controls and engine control panel conveniently located together for easy operator access.

Engine, propane tank and control compartments fully enclosed and lockable, all locks shall be keyed alike. Two (2) sets of keys shall be provided.

FENDERS/ROCK GUARD:

Shall be supplied to cover wheeled per Motor Vehicle Laws and Regulations of the Commonwealth of Pennsylvania.

HITCH, SAFETY CHAINS & TRAILER JACK:

3-inch Lunette eye - minimum 5 vertical positions of adjustment (20 inch – 28 inch). Delivered hitch height shall be set at 28 inches from ground to center of eye with trailer level. Curb weight approximately 13,500 LB.

Two (2), minimum non-rusting, coil-proof, high tensile. Each chain shall have a minimum breaking strength rated equal or above the GVWR. Each chain shall extend 3 feet beyond the Pintle eye. Forged steel hooks with safety hasp to fit a minimum 5/8-inch up to and including a 3/4-inch D-ring (from tow vehicle) at the end of chain and the other end of the chain shall be permanently mounted to trailer.

Trailer jack shall be properly rated, centerline mounted and hydraulically operated.

LIGHTS:

All lights shall be 12-volt LED.

The trailer shall be furnished with shock proof running lights, directional signals and reflectors and sealed wiring harness, fully complying with ICC minimum requirements, and with the Motor Vehicle Laws and Regulations of the Commonwealth of Pennsylvania.

Power cord shall extend 3 feet in length beyond Pintle. There shall be a Cole Hersee No. 11750 stor-a-way trailer connector plug-holder located in the tongue area. All harness pass-through locations shall be protected by a grommet. All wiring shall be protected within a frame-rail, metal enclosure or conduit. Wiring shall not be exposed within a wheel-well.

There shall be no connections outside of a sealed box, unless connections are soldered and properly sealed with heat shrink. **3M type (Scotch Lock) crimp connectors are unacceptable and will not be accepted.** All electrical connection shall be coated with dielectric grease.

SPECIFICATIONS

I. GENERAL TRAILER SPECIFICATIONS: (Continued)

B. TRAILER COMPONENTS: (Continued)

HYDRAULICS:

Screener unit shall hydraulically adjust from transport to operating position, with positive mechanical locks on axle and stacking conveyer for transport.

Hydraulically adjustable 20 feet stacking conveyor shall have an operating range, approximately 7-feet lowered to 13-feet fully raised positions. Minimum 30-inch belt width.

Hydraulic oil overheat shutdown protection

45-gallon hydraulic reservoir with spin-on filter and oil cooler

Variable displacement axial piston pump for system supply

Hydraulic direct drive shaker table with reverse rotation

Torq-motor style drive motors on transfer and stacking conveyors

PAINT/PREPERATION:

Prior to painting, all metal surfaces shall be cleaned to insure proper paint adherence and rust prevention, with all edges and holes de-burred, and all weld splatter removed. Unit to be painted standard OEM color. Wheels can be black, white, silver or argent. Conspicuity per EQN-127A.

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SPECIFICATIONS

II. DRAWINGS:

EQN-127A dated Rev. 01-02-09 1 sheet CONSPICUITY TAPE STRIPING
REQUIREMENTS

The above referenced drawings shall become part of these specifications. These drawings reflect the intent of the Department. Any discrepancies shall be resolved at the Pre-build meeting between the vendor and the Fleet Management Division.

DRAWINGS APPEAR AT THE END OF THE SPECIFICATIONS.

III. MANUALS

The successful vendor shall furnish all applicable manuals per unit:

- 1 Operator's
- 1 Parts
- 1 Service
- 1 Engine
- 1 Transmission (Automatic or Manual)
- 1 Body and Sub-frame (Parts and Service)
- 1 Complete set of manuals for any additional items/equipment added to a piece of equipment.

The manuals listed shall be official O.E.M. publications supplemented with technical manuals for all components as published by sub-vendors/manufacturers.

Parts Manual presented must be a relative to "all" items utilized to build these units, with appropriate part numbers.

Delivery of these manuals shall be completed with the delivery of each unit(s).

Manuals shall be supplied on thumb drives (in PDF format) along with paper manuals.

IV. TRAINING

Mechanic:

The successful vendor shall provide services of qualified factory trained technicians for not more than 0 training sessions of not more than 0 hours at 0 PennDOT locations to train personnel for in-depth preventive maintenance and review of the proper usage of parts and service manuals, as well as component/system adjustments that need to be monitored at specified service intervals.

Operator:

The successful vendor shall provide services of qualified factory trained technicians for not more than 0 training sessions of not more than 0 hours at 0 PennDOT locations to train personnel in the proper operation, safety, and servicing of the equipment.

The successful vendor shall submit a training plan to the Fleet Management Division for approval within 45 days after receipt of the Purchase Order. The training plan shall consist of course outline and class schedule.

All training must be completed within 60 days after the dates established in the approved training plan unless an extension is mutually agreed to in writing by the Chief of the Fleet Management Division.

All training shall be coordinated with the District Equipment Managers, with the exception of Asphalt related training, which must be coordinated with the Statewide Training Coordinator (717) 787-4836, Fax (717) 783-4438.

V. WARRANTY: Per PCID No. 1075