



**Allmand Night Responder™
EPL-8V
Emergency Power Light Tower
Sample Bid Specs**

LIGHTS AND BALLASTS:

1. Light assembly shall consist of four (4) Super High Output SHO-HD or equivalent lamp fixtures. Each fixture shall have a tempered glass lens, an aluminum reflector, and a lamp tip support device to prevent damage to the lamp from vibration and shock. Each lamp fixture shall mount the lamp parallel to the lens for maximum incident and reflected lamp output and be elliptical in shape to eliminate “hot spots” typical of co-axial type lamp fixtures.
2. Each fixture shall contain one 1250 watt parallel mounted BT-37 Metal Halide lamp providing 150,000 initial lumens.
3. Each 1250-watt HD fixture shall produce a minimum of 101,265 usable lumens. Certification of the fixture output must be furnished from an independent testing laboratory.
4. Electrical ballasts shall be designed so that the individual components may be independently replaced without removing the ballast housing or requiring replacement of an entire ballast assembly. Ballast components shall be easily accessed by removal of an exterior panel.
5. Ballasts shall be hard-wired per accepted electrical practices so that high-voltage connections may not easily be disconnected by untrained personnel or tampered with at the main connections.
6. A Supplemental 500 watt quartz lamp fixture shall be mounted to the light mast to provide immediate light while the SHO fixtures reach full intensity.
7. Lamps shall be activated in pairs and be circuit-breaker protected.



MAST ASSEMBLY:

1. The mast shall consist of a seven section vertical extending and retracting telescopic tower assembly. The fully extended mast shall raise the light assembly to 25 feet above ground level.
2. Mast extension and retraction shall be accomplished utilizing a series of cables, a single hydraulic cylinder and 12 Volt DC hydraulic power supply. Extending or retracting the tower shall not require engine operation.
3. The mast assembly shall include a bi-directional automatic cord reel to control the light tower power cord as the tower is extended and retracted.
4. The mast assembly shall utilize a system of nylon guides and rollers to ensure smooth operation.
5. The light tower shall allow accurate lamp positioning permitting light fixtures to be adjusted from the ground. The lamp fixtures shall remain in the desired angle and direction as the tower is extended.

ENGINE:

1. Engine shall be a Kubota D1105BG, 3-cylinder liquid cooled diesel. The engine shall operate at 1800 RPM producing 13.6 continuous hp.
2. Engine shall include a glow-plug cold-starting aid, high-temperature and low oil pressure shutdown devices as standard equipment.
3. Operating sound level shall not exceed 70 db at seven (7) meters.
4. Start and stop functions are controlled with a lighted rocker switch in lieu of a key switch.

GENERATOR:

1. The Generator shall be 60Hz, single-phase 120/240 volt AVR regulated generator capable of producing 8 kW continuous.
2. Auxiliary electric outlets shall include one 120V AC 20 amp duplex GFCI and one 240V AC 30 amp receptacle.



TRAILER AND ENCLOSURE:

1. All painted surfaces shall be prepared with a four-stage wash system including a phosphatic solution bath prior to painting. All painting shall be done utilizing state of the art practices.
2. Painted surfaces shall be coated with a urethane primer and a two part urethane finish coat. Color shall be Emergency red.
3. Fuel tank shall be 30-gallon capacity of non-corrosive spark resistant material.
4. The trailer shall incorporate a fluid containment system capable of holding 110% of the entire fuel tank and crankcase oil capacity of the engine. This system shall prevent environmental contamination in the event of a fuel or oil leak. The containment tray shall have a drain plug to allow spilled fluids to be safely drained into an approved container for disposal.
5. A remote oil drain shall allow the engine oil to be easily drained into an approved container from the outside of the trailer.
6. Trailer axle shall feature high-speed heavy-duty 5-bolt automotive type hubs and bearings. Leaf spring suspension shall be provided with spring and axle capacity appropriate for the weight of the complete trailer. Unit shall be capable of sustained highway-speed towing.
7. Automotive-type 13" 5-lug chrome wheels and tires rated appropriately for the weight of the complete trailer and capable of sustained highway-speed towing shall be installed.
8. Towing hitch shall be an adjustable height, reversible combination 2" ball coupler and 3" pintle hitch.
9. Trailer enclosure shall be constructed of minimum 12 gauge formed steel from the top and doors, and minimum 14 gauge formed steel front and rear enclosure panels with double wall rotation/molded fenders which shall be break-resistant as well as rust, dent and scratch resistant.
10. Drawbar shall include 2" conspicuity tape providing visibility on both sides of tongue.
11. Enclosure shall include 3" white reflective stripes on both sides and rear of trailer for high visibility.



12. Front panels shall be covered with bright aluminum tread plate to prevent damage from towing.
13. Trailer shall include LED stop, turn, and running lights, with LED side marker lamps.
14. Trailer shall include tie down loops welded to the trailer.
15. Trailer shall include a bolt-on removable drawbar to reduce package size for shipping and service.
16. Trailer enclosure shall house engine / generator assembly, fuel tank and all engine and electrical operating controls.
17. Single point lifting eye capable of supporting the machine with maximum fuel load shall be integral to the machine.
18. Forklift pockets, capable of supporting the machine with maximum fuel load, shall be integral to the machine.
19. Two (2) retractable Zinc-coated outriggers with leveling jacks to provide operational stability shall be mounted at the rear of the trailer enclosure. Each outrigger shall have a captive lock pin to secure the outrigger in either towing or operating positions. An additional leveling jack shall be located on the trailer drawbar. All jacks will be included with reflective stripes. Mast shall remain operational in wind gusts of up to 65 MPH (100 K/H).
20. Travel width shall not exceed 49-1/2" (125.75 cm).

WARRANTY:

1. Warranty shall be at least two (2) years on all components with the exception of engine, generator, tires, lamps and batteries, which shall be warranted by their OEM.

GENERAL INFORMATION:

1. Unit shall be an Allmand Night Responder™ EPL-8V (manufactured by Allmand SS) or approved equal.



AVAILABLE OPTIONS:

1. Sound attenuation package consisting of acoustic foam sound insulation material
2. Interior LED Lighting
3. Electric Winch Tower
4. LSC100™ Automatic Light Sequence Commander

