



**Allmand Night Responder™  
EPL-20W  
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. Ballast 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. Lamp ballasts shall be switched in pairs and be circuit breaker protected.
8. Saf-T-Visor™ attachment shall direct previously wasted light onto the scene.

**MAST ASSEMBLY:**

1. All functions of mast erection shall be accomplished utilizing an electrically operated single winch system for raising and lowering the tower. The fully extended vertical mast/light assembly shall total 30’ (9.2 meters) above ground level.



2. Light assembly shall be rotatable at least 360 degrees from ground level without lowering the mast.
3. Mast assembly shall utilize self-lubricating nylon wear-pads between square mast sections to prevent binding and ensure smooth operation.
4. Mast shall be secured in the towing (lowered) position by a captive locking pin and in the vertical (operating) position by a sliding lock on the mast that engages a corresponding slot on the trailer frame. Removable lock pins are not acceptable.
5. The mast assembly shall include a bi-directional automatic cable reel to distribute and retract the electrical cable as the tower is raised or lowered.
6. Mast assembly shall include a three-section telescoping tower.

#### **ENGINE:**

1. Engine shall be an Isuzu 4LE, four-cylinder liquid cooled diesel. The engine shall operate at 1800 RPM producing 34.1 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 shall be controlled with a lighted rocker switch in lieu of a key switch.

#### **GENERATOR:**

1. The Generator shall be 60 Hz, single-phase 120/240 volt AVR regulated generator capable of producing 20 kW continuous.
2. Separate lockable compartment on rear panel of trailer shall contain one 125 VAC 15 amp GFCI duplex, 125VAC 20 amp GFCI duplex, one 250 VAC 15 amp twistlock, one 250 VAC 20 amp twistlock and one 250 VAC 50 amp receptacle. All receptacles shall have appropriate circuit breaker protection.

#### **TRAILER AND ENCLOSURE:**

1. All painted surfaces shall be prepared with a 4 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 polyurethane primer and a two part urethane finish coat. Color shall be Emergency red.
3. Fuel tank shall be 50-gallon capacity of non-corrosive spark resistant material.
4. 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.
5. Automotive-type 15" 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.
6. Towing hitch shall be adjustable height, reversible combination, 2" ball coupler / 3" pintle eye.
7. Trailer enclosure shall be constructed of minimum 10-gauge formed steel side panels, and minimum 12-gauge formed steel hood.
8. Drawbar shall include 2" conspicuity tape providing visibility on both sides of trailer.
9. Enclosure shall include 3" white reflective stripes on both sides and rear of trailer for high visibility.
10. Front panels shall be covered with bright aluminum tread plate to prevent damage from towing.
11. Trailer shall include LED stop, turn, and running lights, with LED side marker lamps.
12. Trailer shall include tie down loops welded to the trailer.
13. Trailer enclosure shall house engine/generator assembly, fuel tank and all engine and electrical operating controls.
14. Single point lifting eye capable of supporting the machine with maximum fuel load shall be integral to the machine.
15. Forklift pockets, capable of supporting the machine with maximum fuel load, shall be integral to the machine.



16. Two retractable plated outriggers with leveling jacks with reflective stripes shall be included. An additional leveling jack shall be located on the trailer drawbar and on the rear of the trailer. When properly set up, the fully extended mast/floodlight assembly mast shall remain operational in wind gusts of up to 65 MPH (104.59 K/H).
17. Travel width shall not exceed 76 ¾" (1.95m).
18. The trailer enclosure shall include inside lamp fixture storage for four (4) fixtures.
19. The trailer enclosure shall include inside compartment lighting (12 volt).

**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-20W (manufactured by Allmand Bros., Inc.) or approved equal.

**AVAILABLE OPTIONS:**

1. Sound attenuation package consisting of acoustic foam sound insulation material
2. Six (6) 1250-watt Metal Halide SHO Lamp Fixtures
3. Four (4) 1000-watt High Pressure Sodium SHO Lamps
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5. Powered cord reel and 120/240V power distribution box including 200 ft. cord and fairlead
6. Light Sequence Commander LSC1000™ (automatic light tower control system)

