

STATEMENT OF WORK

REPLACE HID LIGHT FIXTURES WITH LED LIGHT
FIXTURES FOR
U.S. EMBASSY KHARTOUM, SUDAN

STATEMENT OF WORK

REPLACE HID WITH LED LIGHT FIXTURES

PART 1 GENERAL

1.1 General

This statement of work covers the work required at US Embassy Khartoum - Sudan. All construction and materials shall be in accordance with the U.S. local codes and as approved by the Contracting Office Representative COR.

1.2 Summary of work

This contract includes providing and installation of LED lighting to replace existing lighting system at Embassy main road , Town houses and Presidential Villas compound.

1.3 Submittals

The contractor shall submit **as part of his bid, the following;**

- 1.3.1 Construction schedule by working days.
- 1.3.2 Safety program as detailed in item 1.8.
- 1.3.3 Technical data for:
 - A. LED lights
 - B. Methods used to install and secure lighting fixtures at the existing pole.
 - C. Updated single line diagram for the unit after installation.
- 1.3.4 Company profile to show the company has tools necessary to accomplish the job and copy of C.Vs for manpower who will be assigned to perform the job.

Product data includes rated capacities, and furnished special parts and accessories for the product indicated and includes the following:

- A. Provide dimensional drawings and product description and specifications data.
- B. Strictly adhere to QUALITY ASSURANCE requirements as stated in section 1.4 of this specification
- C. Installation, Operation, and Maintenance Manual (IOM): Provide manufacturer's installation, operations, and maintenance manual, including instructions on installation, operations, maintenance, receiving, handling, storage, safety information and cleaning. A troubleshooting guide, recommended parts/spares list, warranty and electrical wiring diagrams

1.4 QUALITY ASSURANCE

Comply with the National Electrical Manufacturers Association (NEMA), and NEC standards for power LED lighting and electrical accessories.

PART 2 PRODUCTS:

2.2.1 Lighting fixtures

LED Light fixtures with the following specification:

Lamp power from 176 to 202 W.

Voltage 240 V, 50 Hz, Single Phase.

CCT Range 6000 K.

Efficiency minimum 101lm/w.

Life Hours Minimum 50000 Hrs.

Contractor shall provide as a part of his BID a copy of the manufactured document of the approved (agreed upon) product.

PART 3 EXECUTIONS:

3.1 Installation

- A. Remove and replace existing lighting fixtures.
- B. Install new lighting fixtures.

3.2 Construction Schedule

The contractor shall submit, as part of his bid, a computerized detailed schedule showing his activity along with its duration in working days, procedures, and successors, and the total duration of the project.

3.3 Security Procedures

The contractor's personnel shall be subject to all the security procedures required for access clearance of personnel working on U.S. Embassy property Compounds. These requirements shall include:

- 3.3.1 Access for daily laborers can be given for 5 days, with a 48 hours advance notice showing the name of the persons, ID #, date and place of issue, and a copy of the ID. Laborers requiring three days access will be given access for one time only.
- 3.3.2 Access for vehicles should follow the US property rules, valid drivers' license and vehicle plate number must be provided at least one day before entering the premises.
- 3.3.3 All contractor personnel shall be subject to a daily check (in and out) by the Embassy guard force.

Failure of the contractor to fulfill any security requirement in a timely manner shall not be construed as a basis for any time and money extension. Delay or suspension of work due to problems associated with, or failure to comply with US government security regulations or requirements shall not be a basis for claims.

PART 4 SAFETY PROCEDURES

4.1 Scope and Application

Contractor must meet with POSHO or representative before each phase of work begins to discuss safety concerns and agree upon appropriate PPE, methodology, and risk mitigation plans.

This document applies to all contractors and subcontractors working at or on American Embassy property owned or leased as specified in the scope of work. While working on U.S. Government projects the contractor or subcontractor are responsible for maintaining at least an agreed upon minimum amount of safety for the workers and public.

This basic requirement is as follows:

1. Proper Protective Equipment will be worn by workers while in any work area or while performing tasks that create hazards for workers. The requirements listed below are minimum requirements, and may be supplemented or added to by the POSHO.
 - a. Safety glasses will be worn while performing the following
 - i. Drilling
 - ii. Chiseling, chipping
 - iii. Wood working, metal working
 - b. Hearing protection will be provided for all those who operate loud power tools and equipment.
 - c. Hard hats will be worn in areas where falling objects are a hazard.
 - d. Gloves will be worn for cleanup and removal of work area waste and materials.
 - e. Proper footwear will be worn by all workers, including safety shoes.
2. The contractor will identify a safety officer for each project responsible for the following:
3. Shoring and trenching operations:
 - a. Shoring will be used for any trenching/digging deeper than 5 feet if a slope is not used in excavation.
 - b. At least one worker will remain topside at all times.
 - c. A ladder that allows for immediate escape will be available at all times.
4. Use of Signs and Barriers
 - a. Barriers and signs shall identify workplace hazards and special instructions.
 - b. Minimum space required to perform work shall be identified.
 - c. Ribbon, tape, fencing or portable barriers will create a controlled area around work site.
5. Electrical issues
 - a. All power cords and power taps will be wired appropriately, leaving no exposed wires that are live or could come in contact with staff.
 - b. While working on electrical systems proper lockout/tag-out procedures will be followed, and the circuit being worked on will be de-energized (turned off at the main breaker).
 - c. Power cords and temporary power will be GFCI protected and shall not be placed in areas that are prone to flooding or are wet, (i.e. running through puddles on the floor).

- d. Equipment will be plugged into a standard GFCI-protected receptacle and not wired directly into power taps.
6. Waste cleanup and removal
 - a. All excess or waste materials will be removed from the site at the close of each work day. Debris will be removed to include food bags and containers. Staging of materials shall be in an agreed upon location.
7. Safety meetings shall occur at least once a week with at least one Embassy staff member present.

5.0 SCOPE OF WORK

The extent of the electric work shall include, but is not limited to the following:

Remove and replace the existing HID lamps as indicated.
Provide, install, and commission LED light fixtures.

6.0 QUOTATION

As a part of the contractor bid, contractor shall submit a quote based on the following items:

- Removal of 44 light fixtures at Embassy Street.
- Remove 47 light fixtures at Presidential Villas.
- Remove 10 light fixtures at Town Houses.
- Install 101 LED light fixtures at the Embassy, Presidential Villas and Town Houses to replace those removed.

Note: The contractor shall remove the HID light fixtures and fittings from the worksite each day for appropriate disposal.