

## **GENERAL REQUIREMENTS FOR**

### **SUPPLYING THE ILLUMINATION SYSTEM FOR THE SOCCER FIELD**

#### **1 GENERAL REQUIREMENTS**

- 1.1.1 The illumination system shall be designed for a sporting field (See attachment 2) with an illumination level of 250 luxes.
- 1.1.2 The lamps shall be in Z design to reach high levels of efficient and its installation have to be pre-designed in order to hook the lamp with an specific orientation.
- 1.1.3 The new design shall have only four pole lights of 15.20 meters of height in galvanized steel and must be installed at 0.50 meters of height from the ground over the concrete base. Each pole light must have steps and safety cable to give safety conditions for maintenance of the lamps.
- 1.1.4 The pole lights shall be mounted over concrete bases prefabricated that include an electrode for grounded system. This base of concrete also will server to avoid the contact with the ground reducing the condition of the corrosion.
- 1.1.5 The electrical connections must be inside of each pole lights with harness cable in order to guarantee a good contact between each circuit. This kind of harness is plug type with flexible cable inside of a jacket protection.
- 1.1.6 The luminaries must be mounted over a slip-fit on a pole top with an infrared light in order to align them with the soccer field.
- 1.1.7 Each pole must have an electrical components enclosure with the necessary equipment to operate the luminaries and must be attached to each galvanized steel pole at 3 meters of height to quick access for the technician in case of maintenance or emergency without need to go up to the top of the pole.
- 1.1.8 This illumination system shall have an automatic control time to keep the lights on just for a predetermined time during the game or activity.
- 1.1.9 The illumination system shall have a save energy system that permit use only the necessary illumination according the activity that will be accomplished.
- 1.1.10 The new illumination system must have a main panel in order to control the whole system that will be in 480V 60Hz.
- 1.2 The facility, US Chancery Building is located in Encalada Ave. Block 17 s/n. All inspections shall be requested through the Embassy's Facility Manager [FM] or Contracting Officer Representative [COR].