

MINISTRY OF PUBLIC UTILITIES

GOVERNMENT ELECTRICAL INSPECTORATE DIVISION ELECTRIC FENCE REQUIREMENTS

1. The entire electric fence shall comply with I.E.C. 60335-2-76, Edition 2.2 2013-05 - International Electrotechnical Commission: Household and similar electrical appliances – Safety – Part 2-76: Particular requirements for electric fence energizers or its equivalent
2. All equipment shall have appropriate certification attesting to compliance with the above standard.
3. Electric Animal Fences or fences designed for controlling animals shall not be permitted to be used as Electric Security Fences.
4. The grounding of the electric fence shall be accomplished by the use of driven ground electrodes spaced at least 20 m apart with a minimum of two (2) rods per fence regardless of the distance between rods. Each ground electrode shall be adequately and mechanically protected.
5. The minimum size of the ground electrode conductor shall be 10 mm sq and the fence's grounding system shall be connected to the main electrical power grounding system. The grounding electrode conductor shall be green or green with yellow stripes.
6. There shall be a minimum of 2m linear separation between the shortest distance between the main electrical power grounding system and the electric fence's grounding system.
7. The maximum earth loop resistance of the electric fence grounding system shall be 25 ohms.
8. Permanent wiring shall be installed to feed the energizer receptacle outlet and alarm unit.
9. The entire electric fence system shall be fed by a dedicated circuit with the circuit breaker identified.
10. The entire electric fence system shall have a readily accessible pilot-light emergency cut-off switch labeled as "Electric Fence Emergency Cut-Off Switch" with indelible ink
11. All connecting leads installed within a building shall be effectively insulated from the earthed structural parts.
12. All underground connection leads shall be insulated cables and shall be installed in appropriate conduits.
13. The electric fence system shall be free of vegetation and debris.
14. The electric fence shall be re-inspected within a one (1) year period.
15. Only perimeter fences will be allowed to be used as electric fences.
16. The following information shall be submitted with an application for an Electric Fence Inspection (all documentation shall be in English):
 - a). Specifications of the electric fence inclusive of cut sheets for the energizer, details of the fence to be energized and details of the protective physical barrier
 - b). Test certification(s) for the electric fence
 - c). Manufacturer installation requirements
 - d). A sketch or site plan of the location for the electric fence.