

## **6. Design, Installation, Inspection and Maintenance of Fire Detection and Alarm Systems**

### **6.1. Design/Specification and Submittals**

- 6.1.1.** Design, Specifications and Submittals to Civil Defence for approval shall be main consultants responsibility. Consultant shall have competent and knowledgeable personnel to understand the Civil Defence requirements and codes and standards.
- 6.1.2.** Design submittals shall be complete with Fire Detection Design Objective, Manufacturer's design Specifications, Battery calculations, Detector Spacing criteria, appropriate selection of types of systems and their components, in compliance with this code.

### **6.2. Installation**

- 6.2.1.** Installation of Fire Detection and Alarm Systems shall be carried out only by Civil Defence approved and licensed contractors. General contractors, MEP Contractors, Electrical contractors, BMS Contractors, Home automation Contractors shall not be allowed to install Fire Detection and Alarm Systems.
- 6.2.2.** Installation contractor qualification and approval from Civil Defence is based on their training from respective system manufacturers, experience, understanding of codes and standards and workmanship.
- 6.2.3.** Installation contractors shall apply to Civil Defence and secure passing marks in Civil Defence examination to gain license and be qualified as "approved Fire Detection and Alarm Systems contractors".
- 6.2.4.** Installation contractor shall not commence work on site without receiving Civil Defence stamped and approved drawings from the Consultant.
- 6.2.5.** It is contractors responsibility to adhere to consultant's Civil Defence approved drawings and Manufacturer's installation guidelines and specifications.

### **6.3. Inspection and Acceptance**

- 6.3.1.** Inspection and acceptance shall be main consultant's responsibility.
- 6.3.2.** Main consultant shall inspect contractor work during installations and ensure that all systems are installed, tested, commissioned and performing as per the Civil Defence approved drawings, manufacturer's design and installation guidelines, acceptance criteria and their intended purpose.
- 6.3.3.** Consultant shall handover system inspection report, maintenance manuals to the owner.

### **6.4. Inspection and Maintenance**

- 6.4.1.** The building owner, his appointed representative and the facility management shall be responsible to ensure that all the Fire Detection and Alarm Systems in the facility are inspected regularly, maintained and repaired to serve their intended purpose during emergencies.