

4. Design, Installation, Inspection and Maintenance of Emergency Voice Evacuation or Communication and Two-way Telephone System

4.1. Design/Specification and Submittals

- 4.1.1. 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.
- 4.1.2. Design submittals shall be complete with Emergency Voice Evacuation Speaker layouts, ceiling heights and manufacturer's specification for the spacing of speakers and intelligibility recommendations.

4.2. Installation

- 4.2.1. Installation of Voice evacuation System and Two-way telephone Systems shall be carried out only by Civil Defence approved and licensed Fire Detection and Alarm System contractors. General contractors, MEP Contractors, Electrical contractors, BMS Contractors, Home automation Contractors shall not be allowed to install Voice Evacuation Systems and Two-way telephone Systems.
- 4.2.2. 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.
- 4.2.3. 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".
- 4.2.4. Installation contractor shall not commence work on site without receiving Civil Defence stamped and approved drawings from the Consultant.
- 4.2.5. It is contractors responsibility to adhere to consultant's Civil Defence approved drawings and Manufacturer's installation, acoustic guidelines and specifications.

4.3. Inspection and Acceptance

- 4.3.1. Inspection and acceptance shall be main consultant's responsibility.
- 4.3.2. Main consultant shall inspect contractor work during installations and during acceptance, ensure that Voice speakers are delivering intelligible messages, in accordance with [Section 5](#). of this chapter.
- 4.3.2. Consultant shall handover system inspection report, acoustic reports, approved drawings, maintenance manuals to the owner.

4.4. Inspection and Maintenance

- 4.4.1. The building owner, his appointed representative and the facility management shall be responsible to ensure that Voice evacuation System and Two-way telephone systems are installed in compliance with this chapter.
- 4.4.2. Emergency Voice Evacuation System and Two-way telephone systems shall be inspected and maintained as per [Chapter 8. Fire Detection and Alarm System's](#) schedule and requirements.