

Table 7.1: Specifications of Emergency Voice Evacuation or Communication Systems

ITEMS	REQUIREMENTS
4. TONES AND DECIBEL REQUIREMENTS	<p><u>1. TONE</u></p> <p>i. Tone preceding any voice message shall be permitted to be part of the voice message in occupancies where sleeping risk is involved.</p> <p><u>2. PRIVATE MODE AUDIBILITY</u></p> <p>i. Voice messages in private mode/areas shall be 10 dB above the ambient sound level having duration of 60 seconds, measured 1.5 m above the floor area required to be served using A-weighted scale (dBA).</p> <p><u>3. PUBLIC MODE AUDIBILITY</u></p> <p>i. Voice messages in public mode/areas shall be 15 dB above the ambient sound level having duration of 60 seconds, measured 1.5 m above the floor area required to be served using A-weighted scale (dBA).</p> <p><u>4. SLEEPING AREA AUDIBILITY</u></p> <p>i. Voice messages in sleeping areas shall be 75 dB measured at the pillow level in the area required to be served using A-weighted scale (dBA).</p>
5. SPEAKERS	<p>i. Speakers for the voice evacuation system shall be dedicated, listed, approved and tested for the emergency voice evacuation systems.</p> <p>ii. Speakers used as Fire Alarm notification in accordance with Chapter 8, Table 8.1.16 shall be permitted to be used as voice evacuation speakers, provided they comply with this Chapter, Section 2.4.</p> <p>iii. Where speakers are not dedicated, building ancillary function speakers shall be permitted to be part of the Voice evacuation system provided they comply with voice message intelligibility, circuit integrity, wiring requirements, addressable etc., as per this Chapter, Section 2.4.</p> <p>iv. Speakers shall be with flashers or strobe light where installed at basements, plant rooms and noisy industrial areas.</p> <p>v. Where provided, speakers in each enclosed stairway shall be connected to a separate notification zone for manual paging only.</p>
6. ZONES	<p>i. If acceptable to the authority having jurisdiction, the system shall permit the application of an automatic evacuation signal to one or more signalling zones and at the same time, shall permit manual voice paging to the other signalling zones selectively or in any combination.</p> <p>ii. Undivided, non-compartmentalized fire or smoke zones of the building shall not be divided into multiple voice evacuation signalling zones.</p> <p>iii. If multiple notification appliance circuits are provided within a single zone, all of the notification appliances within the zone shall be arranged to activate or deactivate simultaneously.</p> <p>iv. Fire alarm systems used for partial evacuation and relocation shall be designed and installed such that attack by fire within an evacuation signalling zone shall not impair control and operation of the notification appliances outside the evacuation signalling zone.</p>