

SPECIFICATION FOR ULTRASONIC PEST REPELLANT SYSTEM

1) DESCRIPTION IN GENERAL

This specification shall be the guideline for Supply, installation, testing and commissioning of Rodent Repellant System installed in the Ceiling Void / Room Void and Floor Void of All Areas of Critical Rooms / Areas.

The Rodent Repellant system shall comprise of a main console and Rodent Transducer modules, connected by cables. The Rodent Repellant Consoles shall be located in the Electrical or HUB Room on the every floor installation.

2) SCOPE

The Rodent Repellant system shall be capable of emitting intense high frequency Sound Waves (Well above the 20 KHz frequency which is the upper limit of the hearing range of the human ear), to drive away rodents. These high frequency sounds shall be inaudible and harmless to human beings, but they shall provide for a accoustically hostile environment for the Rodents.

The main Console shall be provided with the Mains power, and the individual transducers shall not require any separate power.

The transducers shall be capable to be tested on a human audible range with the help of a self testing facility and a Ultra sonic Sound measuring device.

The system shall provide the facility to connect the transducers either on a loop, or as a point to point wiring from transducer to central console.

Testing procedure shall involve bringing the sound levels to human audible range and testing with a ultrasonic frequency sound meter.

Technical Requirements :

1.1 CONSOLE:

The console (controller) shall be provided the mains power in the BMS / Electrical Room.

All the subsystem(s) shall be connected through this system.

The pest repellant satellite transducers shall be electronic transmitters of high frequency sound waves of above 20 Hz frequency.

Each controller shall support the minimum of 12 Satellites.

Synopsys Tech Pvt. Ltd.

A-001, Fressia CHS LTD, Baburao Ranade Marg, Off. L.M. Road, Behind Bank of India, Dahisar West, Mumbai-400068. Tel. 022-28904500/6800/6500

Email : info@synopsystech.com

Website: www.synopsystech.com

The system shall employ transducers in the Room void, Floor void & Ceiling voids.

1.2 SPECIFICATION FOR SATELLITES:

Each Satellite shall cover the area of 150 Sqft for protecting Floor & Ceiling Voids. The system shall be mounted in a suitable size angle where ever necessary.

The system shall be capable of withstanding a wide range of temperature environments from 0 Deg C to 50 Deg C.

Crystal : DM 44T 24V MAS Germany or equivalent.

Visible hexagonal, Triangle exciter-Centre damp horizontal line exciters.

Frequency: Peak frequency responses of the Satellites shall be,

21.6 KHz +/- 3 KHz

31.6 KHz +/- 3 KHz

50.4 KHz +/- 3 KHz

60 KHz +/- 3 KHz.

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