



महाराष्ट्र शासन



Govt. of Maharashtra



Directorate of Maharashtra Fire & Emergency Services

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No.MFS-2026/ 1420

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CIRCULAR

Sub: Wireless Detection System

**Ref: This Office Circular No. MFS/10/2012/1099,
dated 19th July' 2012**

In continuous to the aforesaid mention circular issued on 19th July 2012 more specifically on "Wireless Detector" and the new amended Indian Standard IS 2189 : 2026 (Fifth Revision) – Selection, Installation and Maintenance of Automatic Fire Detection and Alarm System — Code of Practice and subsequent withdrawal of Indian Standard IS 2175 (Specification for heat sensitive fire detectors for use in automatic fire alarm system) & IS 11360 (Specification for smoke detectors for use in automatic electrical fire alarm system), this Directorate makes amendment as follows.

Wireless Detectors may be accepted in accordance to clause 4.9 of the IS 2189 ensuring that the wireless detection systems shall be installed by empanelled license agencies by Directorate of Maharashtra Fire Services and they shall ensure that these wireless fire alarm systems demonstrate reliable and secure communication over radio frequency (RF) paths under normal and adverse operating conditions and as per sec 3 of the Maharashtra Fire Prevention & Life Safety Measures Act, 2006 issue Form A for the installation of the system and Form B towards maintenance of the same, as case may be. If these wireless detection system does not work due to secure communication over radio frequency (RF) paths under normal and adverse operating conditions, then license agencies shall be held responsible for the same.

While installing the said system, it shall be ensured that :-

- a. Wireless fire alarm systems shall operate only on license-exempt frequency bands permitted in India; such as **865 MHz to 867 MHz, 868 MHz and 2.4 GHz** as notified by the appropriate regulatory authority.
- b. All wireless fire alarm equipment shall comply with the prevailing wireless planning and coordination (**WPC**) regulations, and necessary approvals shall be obtained by the manufacturers or original equipment manufacturer (**OEM**);
- c. Wireless fire detection and alarm systems may be considered suitable **for applications including, but not limited to:**
 - i. Heritage and protected buildings where cabling are restricted;
 - ii. Temporary or relocatable structures;
 - iii. Retrofit and renovation projects; and
 - iv. Large campuses or distributed facilities where conventional cabling is impractical or economically unviable**but not suitable for**
 - i. environments with high RF interference.
 - ii. high-risk environments where immediate response is critical (for example, high-rise buildings, large industrial spaces with complex fire safety needs

beside above conditions, the IoT and M2M technologies (which provides the real time health of the system) may also be adopted which introduces prospects for fire preparedness monitoring in infrastructure with deployed fire detection systems. The connection of the fire alarm panel to a cloud-based monitoring server for the purpose of tracking fire incidents and their mean recovery time by security/fire safety personnel, as well as fault occurrences and their mean restoration time by maintenance entities, offers a significant advantage over manual monitoring conducted via periodic inspections. During regular operation, isolating, modifying, or removing any system components should be strictly avoided without permission of the authority having jurisdiction.

All the enforcing agencies such as Urban Local Bodies and Special Planning Authorities should ensure that the detection system, especially wireless detection are strictly adhering to IS Code 2189:2026 (Fifth Revision).

Public Works Deptt. and the Engineering Deptt. of the other Government and Semi Government Organizations responsible for the designing and commissioning of the Fire Detection System should also take the note of the same to avoid any violation.

This circular is available on website: www.mahafireservice.gov.in


(S S Warick) 16/10/26
Director
MF&ES, Mumbai.

Copy submitted to the Addl. Chief Secretary-2, Urban Development Deptt. Govt. of Maharashtra, for favour of information with request to issue suitable directives in this regard to all Planning Authorities.

Copy f.w.cs. to (1) The Secretary, Public Works Deptt., GoM, (2) The Metropolitan Commissioner, MMRDA, (3) The Commissioners of All Municipal Corporations, (4) The Chief Executive Officer, MIDC, (5) The Managing Director, CIDCO, (6) The Vice President, MHADA, (7) The Managing Director, MIHAN (8) The Vice President & MD, MSRWC (9) The Managing Director, MAHAGENCO (10) The Managing Director, MSEDCL, Prakashgad,

Copy to: (1) All Chief Fire Officers or Officer-in-charge of Fire Services of all Urban Local Bodies and Special Planning Authorities. (2) The Chief Officers of all Municipal Councils.