



IS 616 : 2017- Audio, Video and Similar Electronic Apparatus - Safety Requirements

IS 616 : 2017 ensures safety requirements of audio, video, and similar electronic apparatus, including entertainment systems and broadcasting equipment. It specifies safety guidelines for devices that operate with a supply voltage not exceeding 250 volts (AC or DC). The purpose of IS 616 is to ensure user safety by minimizing risks related to electric shock, fire, mechanical hazards, and radiation from electronic equipment typically used in households, offices, and similar environments.

It covers a broad range of consumer electronics, such as televisions, amplifiers, and sound systems, as well as professional audio and video equipment. This includes devices intended for receiving, recording, or reproducing sound and images.

Stringent safety requirements are ensured in key areas, i.e., electrical insulation, stability, fire resistance, and structural durability. For example, equipment must pass tests for electric shock prevention, which includes insulation and spacing requirements to protect users from live parts. Mechanical robustness is tested to ensure durability, such as checking the strength of enclosures to prevent breakage or tipping. Fire safety measures, including flame-retardant materials and thermal cutoffs, prevent overheating and fire hazards. The standard also includes guidelines on radiation, ensuring minimal exposure to harmful levels of infrared, ultraviolet, or laser radiation.

Manufacturers must provide documentation and labelling that clearly outlines safety information for end users. These requirements ensure that products enhance user confidence by reducing health and safety risks.

Electronics & Information Technology Goods (Requirements for Compulsory Registration) Order, 2012 Dated 03rd October 2012 mandates that all audio, video, and similar electronic apparatus sold, manufactured, or imported in India shall comply with IS 616 and display the BIS Standard Mark (Registration Mark), which ensures safety requirements of IS 616. Consumers buying audio and video equipment should look for BIS Registration Mark on these products which ensures that these products meet the safety requirements given in IS 616.