

CENTRAL MARKS DEPARTMENT-III

Our Ref: CMD-III: 16/IS 616

13-09-2017

Subject: Guidelines for implementation of revised IS 616:2017/IEC 60065:2014 superseding IS 616:2010/IEC 60065:2005 -Audio, Video and similar electronic apparatus- Safety requirements

1. IS 616:2010/IEC 60065:2005 has been revised as IS 616:2017/IEC 60065:2014 - 'Audio, Video and similar electronic apparatus- Safety requirements'.
2. The concurrent running of IS 616:2010/IEC 60065:2005 and IS 616:2017/IEC 60065:2014 is permitted till **27 June 2018** and IS 616:2010/IEC 60065:2005 shall stand cancelled after **27 June 2018**.
3. The revised IS 616:2017/IEC 60065:2014 includes the following significant technical changes with respect to the previous edition IS 616:2010/IEC 60065:2005 for considering changeover:
 - Requirements for "Constructions and components not specifically covered" added (Cl.3.3)
 - Consideration of "Components and subassemblies that comply with IEC 62368-1"(Cl. 3.4)
 - Settings specified for rated current consumption or rated power consumption measurement of television sets (Cl. 4.2.2)
 - Normal operating conditions for equipment containing multi-channel amplifiers specified (Cl. 4.2.5(e))
 - Change in requirements of "Identification and supply ratings"(Cl. 5.2)
 - New requirements for "Caution marking" added (Cl. 5.4)
 - New warning requirements for instruction for installation or use (Cl. 5.5.2 i & j)
 - New requirement for LEDs (Cl. 6.3)
 - Added requirements for testing for "Withdrawal of MAINS plug" (Cl. 9.1.6)
 - New requirement of electric shock hazard under normal operating conditions for loudspeaker systems (Cl. 9.2)

- New test conditions for humidity treatment for checking of insulation requirements (Cl.10.3)
- Additional requirements for “Measurement of temperature rise” (Cl.11.2.2)
- Change in requirements of heating of parts, other than windings and printed boards, providing electrical insulation(Cl.11.2.4)
- New requirements added for printing boards (Cl.11.2.7)
- Modified requirements for “Drop Test” (Cl.12.1.5)
- Modified requirements for “Stress Relief Test” (Cl.12.1.6)
- Fall height of 500mm specified for mechanical strength test of remote control devices held in hand (Cl. 12.3)
- New requirements for apparatus containing coin/button cell batteries (Cl. 12.7)
- Modified test conditions for determination of working voltage (Cl. 13.2)
- Change in requirements of clearances (Cl. 13.3.1)
- Added requirements for minimum clearances in circuits not conductively connected to the MAINS (Table 10)
- Change in requirements of minimum creepage distance (Cl.13.4, Table 11)
- Requirements specified for multilayer printed board constructions (Cl.13.5.2)
- Added requirements for transformers, magnetic couplers and similar devices (Cl. 13.6)
- Requirements specified for planar transformers (Cl.14.4.3)
- Compliance to be checked as per IEC 60730-1 for a device providing Type 2.AL action (Cl.14.6.4)
- Portable secondary sealed cells and batteries (other than button) containing alkaline or other non-acid electrolyte shall comply with IEC 62133 (Cl.14.11.1)
- Change in optocoupler requirements (Cl.14.12)
- Additional compliance in case of surge suppression varistors (Cl.14.13)
- Change in requirements for Plugs and sockets (Cl.15.1)

- Added requirements for provisions for protective earthing (Cl.15.2)
- Intrinsically protected tubes including those having integral protective screens shall comply to IEC 61965(Cl.18.1)
- Modified requirements for “Non-intrinsically protected picture tubes” (Cl.18.2)
- Change in requirements for Stability and mechanical hazards (Cl.19)
- Change in requirements of printed boards (Cl.20.2.5)

4. Considering the above changes, the following additional/modified tests are to be conducted for changeover for the Registered Manufacturers:

Clause No.	Requirement
3.3	Requirements for “Constructions and components not specifically covered”
3.4	Consideration of “Components and subassemblies that comply with IEC 62368-1”
4.2.2	Specified settings for rated current consumption or rated power consumption measurement of television sets
4.2.5(e)	Tests for equipment containing multi-channel amplifiers
5.2	Requirements for “Identification and supply ratings”
5.4	Requirements for caution marking
5.5.2 i, j	Requirements for instruction for installation or use
6.3	Light Emitting Diodes (LEDs)
9.1.6	Requirements for testing for withdrawal of MAINS plug
9.2	Requirement of electric shock hazard under normal operating conditions for loudspeaker systems
10.3	New test conditions for humidity treatment for checking of insulation requirements
11.2.2	Additional requirements for measurement of temperature rise
11.2.4	Requirements of heating for parts, other than windings and printed boards, providing electrical insulation
11.2.7	Requirements added for printing boards
12.1.5	Requirements for “Drop Test”
12.1.6	Requirements for “Stress Relief Test”
12.3	Modified requirements for mechanical strength test of remote control devices held in hand

12.7	New requirements for apparatus containing coin/button cell batteries
13.2	Determination of working voltage
13.3.1	Requirements of clearances
Table 10	Requirements for minimum clearances in circuits not conductively connected to the MAINS
13.4,Table 11	Creepage Distance
13.5.2	Requirements for multilayer printed board constructions
13.6	Requirements for transformers, magnetic couplers and similar devices
14.4.3	Requirements for planar transformers
14.6.4	Compliance to be checked as per IEC 60730-1 for a device providing Type 2.AL action
14.11.1	Requirements for Batteries
14.12	Optocoupler requirements
14.13	Surge suppression varistors
15.1	Requirements for Plugs and sockets
15.2	Requirements for provisions for protective earthing
18.1	Intrinsically protected tubes including those having integral protective screens shall comply to IEC 61965
18.2	Requirements for “Non-intrinsically protected picture tubes”
19	Requirements for Stability and mechanical hazards
20.2.5	Requirements of printed boards

5. Procedure for Changeover

- a) Applications/Inclusions already submitted in BIS will be processed as per old version.
- b) Fresh Applications/Inclusions may be submitted as per new version or old version.
- c) For Applications/Inclusions processed as per old version, manufacturer shall switchover to new version on or before 27 June 2018 failing which such Application(s)/ Inclusion(s) shall be processed for closure/rejection as per norms.
- d) All Registered Manufacturers shall switchover to the new version on or before 27 June 2018 by submitting Amendment Test Report for all the base models covered in the Scope of Registration from any BIS approved lab for the additional/modified requirements as per the revised Standard.

- e) If the Registered Manufacturer switchover to revised version on or before 27 June 2018 for select models only, all the remaining models shall stand deleted from the Scope of Registration w.e.f 28 June 2018. In case Registered Manufacturer fails to switchover to revised version on or before 27 June 2018 for any of the registered models, such Registration shall deemed to have been cancelled w.e.f 28 June 2018.
 - f) Letter regarding changeover to revised Standard shall be issued by BIS indicating the Product name and model(s) that are conforming to the revised Standard. The Registered Manufacturers shall apply the Standard Mark along with Registration Number only on such models that are conforming to the revised Standard after obtaining necessary approval from BIS.
6. **All Registered Manufacturers and Applicants shall take timely actions for changeover as per the above guidelines.**

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