

केंद्रीय मुहर विभाग-2

संदर्भ : कें.मु.वि-2/ 16:9873

16 09 2020

विषय : खिलौनों की भा मा ब्यूरो द्वारा प्रमीनकरण हेतु PPT Slides

खिलौनों की भा मा ब्यूरो द्वारा प्रमीनकरण हेतु PPT Slides, शाखा कार्यालयों की सूचना हेतु इंटरनेट के माध्यम से संचालित की जा रही हैं।

(आदित्य दास)

वैज्ञानिक D

प्रमुख, (कें.मु.वि.-2)

क्षेत्रीय/शाखा कार्यालयों को intranet माध्यम से परिचालित

CENTRAL MARKS DEPARTMENT-2

Our Ref: CMD-2/16:9873

16 09 2020

Subject: PPT Slides on BIS Certification of Safety of Toys

PPT Slides on BIS Certification of Safety of Toys prepared by CMD-2 are being circulated for information to all BOs through intranet

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Circulated to ROs/BOs/FMCD through intranet

CERTIFICATION OF SAFETY OF TOYS

BUREAU OF INDIAN STANDARDS

OVERVIEW

- Toys (Quality Control) Order, 2020 issued by DPIIT, Ministry of Commerce and Industry vide notification dated 25 February 2020 through which Safety of Toys as per has been brought under compulsory BIS certification with effect from 01/09/2020
- BIS has initiated the process of grant licence to manufacturers of toys for use of BIS Standard Mark as per Scheme I of Schedule II of the BIS (Conformity Assessment) Regulations, 2018
- The certification will be done as per Option 1 (Normal Procedure) i.e. after receipt of application, BIS will conduct factory inspection and draw samples for testing in BIS Recognized Labs

OVERVIEW

There are 7 Indian Standards mentioned in the Quality Control Order

Sl. No.	IS No.	Standard Title
1	IS 9873 (Part 1):2019	Safety of Toys Part 1 Safety Aspects Related to Mechanical and Physical Properties
2	IS 9873 (Part 2) : 2017	Safety of Toys Part 2 Flammability
3	IS 9873 (Part 3) : 2017	Safety of Toys Part 3 Migration of Certain Elements
4	IS 9873 (Part 4) : 2017	Safety of Toys Part 4 Swings, Slides and Similar Activity Toys for Indoor and Outdoor Family Domestic Use
5	IS 9873 (Part 7) : 2017	Safety of Toys Part 7 Requirements and Test Methods for Finger Paints
6	IS 9873 (Part 9) :2017	Safety of Toys Part 9 Certain Phthalates Esters in Toys and Children's Products
7	IS 15644:2006	Safety of Electric Toys

OVERVIEW

- However, the following Indian Standards for safety of toys are also relevant:
 - [IS 9873 : Part 6:2017](#) – Specifies methods for Determination of Certain Pthalate Esters in Toys and Children's Products (IS 9873 (Part 9) :2017)
 - [IS 9873 : Part 5:2017](#) – Specifies methods for determination of total concentration of certain elements in toys (IS 9873 (Part 3) : 2017)
 - [IS 9873 : Part 8:2019](#) – Specifies age determination guidelines

OVERVIEW

- Since more than 1 Indian Standard may be applicable on each toy, it has been decided to make the application process simpler. Toys have been classified into following 2 types for the purpose of BIS certification

S. No.	Type	Applicable Primary Standard
1	Non Electric Toys (these are ordinary toys such as rattles, dolls, puzzles, etc. which do not have any function dependent on electricity)	IS 9873 (Part 1):2019
2	Electric Toys (these are toys which have at least one function dependent on electricity as mentioned in the scope of IS 15644)	IS 15644:2006

OVERVIEW

- Manufacturers while applying for a licence, may choose one of the above applicable primary standards based on the type of toy for which licence is required.
- If licence is required for more than one type of toy, separate applications shall be made for each type.
- However, samples shall be tested by BIS for conformity to the primary standard and the secondary standards which are applicable i.e. IS 9873 parts 2,3,4,7, and 9 etc.

Illustration 1

- Manufacturer is making mechanically operated plastic dolls with no electrical function
- It is Non-Electric type of toy. Hence, while submitting application applicant shall choose IS 9873 (Part 1):2019
- However, samples may be drawn and tested for
 - IS 9873 (Part 1):2019 – Mechanical and Physical Properties
 - IS 9873 (Part 2):2017 - Flammability (If applicable)
 - IS 9873 (Part 3):2017 – Migration of Certain Elements
 - IS 9873 (Part 9):2017 – Certain Phthalate Ester in Toys
- Note: Testing as per IS 9873 (Part 4) is not applicable as it is not an Activity Toy. Similarly IS 9873 (Part 7) is not applicable as no finger paints are included in the toy and IS 15644 is not applicable as there is no electric function

Illustration 2

- Manufacturer is making electrically operated plastic dolls
- It is Electric type of toy. Hence, while submitting application applicant shall choose IS 15644:2006
- However, samples may be drawn and tested for
 - IS 15644:2006
 - IS 9873 (Part 1):2019 – Mechanical and Physical Properties
 - IS 9873 (Part 2):2017 - Flammability (If applicable)
 - IS 9873 (Part 3):2017 – Migration of Certain Elements
 - IS 9873 (Part 9):2017 – Certain Phthalate Ester in Toys
- Note: Testing as per IS 9873 (Part 4) is not applicable as it is not an Activity Toy. Similarly IS 9873 (Part 7) is not applicable as no finger paints are included in the toy.

GROUPING GUIDELINES

- Since there are a large number of models of toys being manufactured, it is practically difficult to test each and every model of toy for the purpose of BIS certification.
- Accordingly, the product manual issued incorporates “Grouping Guidelines” which allow certification to be granted for a group of toy models based on the testing of certain representative models.
- These grouping guidelines have been framed based on the Indian Standard IS 9873 (Part 8):2019 which is identical with the International Standard ISO/TR 8124-8:2016 (Safety of Toys Part 8 Age Determination Guidelines)

GROUPING GUIDELINES

- These guidelines classifies toys into 7 Categories and 146 Sub-Categories based on the appropriate starting age and the specific purpose or function of the toy.
- For the purpose of certification, all the models of toys of similar design, made from the same materials and covered under a single sub-category, shall be considered as a series. Sample of any one model from each series shall be drawn and tested to cover all the models in that particular series.

Illustration 3

- Manufacturer makes 6 models of mechanically operated dolls which are meant for ages 12+ and are similar in design but different in material i.e.
 - 3 models of plastic (PVC) dolls – P1, P2, P3
 - 3 models of fabric (nylon) dolls – N1, N2, N3
- The above models fall in Sub-category 29, and are similar in design but of 2 different materials. Thus, 2 samples need to be tested to cover all 6 above models in the scope of licence
 - Sample of either P1 or P2 or P3 to cover P1, P2 and P3
 - Sample of either N1, N2 or N3 to cover N1, N2 and N3

Illustration 4

- Manufacturer makes 6 models of electrically operated dolls which are meant for ages 12+ and are similar in design and made of same material but have different power input sources:
 - 3 models of dolls are battery operated and have the same power supply layout, same chassis, same power requirement and same battery type & size, processor and same charger for externally rechargeable batteries – B1, B2, B3
 - 3 models of dolls are transformer toys and have the same mains layout, enclosure and processor/controller – T1, T2, T3
- The above models fall in Sub-category 29, and are of same design and material but of 2 different input sources. Thus, 2 samples need to be tested to cover all 6 above models in the scope of licence
 - Sample of either B1 or B2 or B3 to cover B1, B2, B3
 - Sample of either T1, T2 or T3 to cover T1, T2, T3

Scheme of Inspection and Testing

- Scheme of Inspection and Testing or SIT defines the frequency of conducting the various tests specified in the Indian Standards
- The SIT also specifies those tests for which in-house testing facilities need not be established (these tests can be subcontracted to BIS Recognized Labs).
- Since the toy industry had expressed that it would be difficult for many manufacturers, especially the MSME units, to establish in-house testing facilities, subcontracting has been permitted in the SIT for all tests except for IS 9873 (Part 1) and 3 of the 13 requirements IS 15644.