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उत्पाद मानुयल
खिलौनों की सुरक्षा
IS 9873 (Parts 1,2,3,4,7,9) and IS 15644 के अनुसार

PRODUCT MANUAL FOR SAFETY OF TOYS AS PER IS 9873 (Parts 1,2,3,4,7,9) and IS 15644

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन मे रीति और पारदर्शिता के सुसंगता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप मे उपयोग किया जाएगा। बीआईएस लाइसेन्स/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence.

1.उत्पाद/Product

Sl. No.	IS No.	शीर्षक/ Title	संशोधनसंख्या/ No. of Amendments
1.	IS 9873 (Part 1):2019	Safety of Toys Part 1 Safety Aspects Related to Mechanical and Physical Properties	NIL
2.	IS 9873 (Part 2) : 2017	Safety of Toys Part 2 Flammability	NIL
3.	IS 9873 (Part 3) : 2020	Safety of Toys Part 3 Migration of Certain Elements	NIL
4.	IS 9873 (Part 4) : 2017	Safety of Toys Part 4 Swings, Slides and Similar Activity Toys for Indoor and Outdoor Family Domestic Use	NIL
5.	IS 9873 (Part 7) : 2017	Safety of Toys Part 7 Requirements and Test Methods for Finger Paints	NIL
6.	IS 9873 (Part 9) :2017	Safety of Toys Part 9 Certain Phthalates Esters in Toys and Children's Products	NIL
7.	IS 15644:2006	Safety of Electric Toys	1

2.	**नमुनाकरण दिशानिर्देश/Sampling Guidelines: (In a single operative year, one factory sample and two market samples of electric and non-electric toys per license shall be drawn for testing in third party lab)**		
a)	**कच्चा माल/Raw material**	:	All materials shall be visually clean and free from infestation. The materials shall be assessed visually by normal corrected vision rather than under magnification. (Cl 4.3 of IS 9873 (Part 1):2019)
b)	**समूहिकरण दिशानिर्देश Grouping guidelines**	:	कृपयाAnnex-Aदेखें *Please refer ANNEX - A*
c)	**नमूने का परिमाण /Sample Size**	:	*03-10 pieces. However, depending on the size of toys, the certification officer shall consult with the lab and ensure that sufficient quantity required for complete testing is sent to lab. (Samples to be fully packaged and labeled)*
3.	**परीक्षण उपकरणो की सूची List of Test Equipment**	:	कृपयाAnnex-Bदेखें *Please refer ANNEX -B*
4.	**निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing**	:	कृपयाAnnex-Cदेखें *Please refer ANNEX -C*
5.	**एक दिन में संभावित परीक्षण/Possible tests in a day :** All possible applicable tests as per IS 9873 (Part 1) and IS 15644		
6.	**लाइसेन्स का कार्यक्षेत्र /Scope of the Licence :**		

Licence is granted for use of BIS Standard Mark on toys for safety requirements as per the applicable Indian Standards given below *

Type	Description of toy	Category No. and Name	Sub-category No. and Name	Input source for electric toy**	Starting Age	Series No.#	Applicable primary standard	Applicable Secondary standard
Non electric	Rattle	Category A- Toys for sensorimotor activities – First age	Subcategory 1 - Rattles and rings	NA	0 months +	S01	IS 9873 Part 1	IS 9873 Part 2, 3 and 9
	Ring	-do-	-do-	NA	-do-			

*Details in the table are given for illustration. Also see sampling guidelines at Annex-A
** Input source for electric toys - battery operated, transformer operated or dual supply
#Details of models contained in each series shall be declared by manufacturer to BIS separately and BIS shall endorse the series wise details of models separately in the licence document as Annexure (See Annex-A for details)

ANNEX A

GROUPING/SAMPLING GUIDELINES

1. For the purpose of certification, toys have been classified into 2 types. For each type, one primary standard shall apply against which licence would be granted and the other standards against which testing may also be required to be done shall be taken as secondary standards. However, testing will be considered by the lab based on both the primary and secondary standards applicable. The classification is as follows:

Sl. No.	Type	Primary Standard Applicable	Secondary Standards (As Applicable)
1	Non Electric Toys	IS 9873 Part 1	IS 9873 Parts 2, 3,4, 7 and 9
2	Electric Toys	IS 15644	IS 9873 Parts 1, 2, 3,4, 7 and 9

2. Further, based on their specific purpose and function, toys have also been classified into 7 Categories and 146 sub-categories as per **APPENDIX I** (based on IS 9873 (Part8):2019)**.**

3. For the purpose of certification, all varieties of toys of similar design$_1$, made from the same materials$_2$ and covered under a single sub-category, shall be considered as a series (group of varieties).

4. Accordingly, the following sampling or grouping guidelines shall be followed for drawal and testing of samples for consideration of Grant of Licence (GOL) and Change in Scope of Licence(CSoL):

Sl. No.	Type	Samples to be drawn and tested for GOL/CSoL
1	Non Electric Toys	Sample (of required quantity) of any one model of toy from among all the models in the same **series** i.e.**of same type, similar design$_1$, made from the same materials$_2$ and covered under a single sub-category** to be drawn and tested for considering GOL or CSOL.
2	Electric Toys	Electric toys are further sub-divided into the following

		sub-groups according to input source: • Battery operated • Transformertoys • Dual-supplytoys Accordingly the following shall apply: — To cover all the models of battery operated electric toys, one model of battery operated electric toy from among all models of battery operated electric toys having the same power supply layout, same chassis, same power requirement and same battery type &size, processor/ controller (if any), same charger for externally rechargeable batteries (Alternate models of charger may be evaluated as part of the main product and mentioned in the test report), and in the same **series (as per Sl No 1)**to be drawn and tested for considering GOL orCSOL. — To cover all the models of Transformer toys, one model of transformer toy from among all models of Transformer toys having the Same mains layout or SMPS board, Same enclosure (except for differences of decorative parts which do not affect the electrical safety), Same processor/ controller and in the same **series (as per Sl No 1)**to be drawn and tested for considering GOL or CSOL. — To cover all the models of Dual-supply toys, one model of dual supply toy from among all models of Dual-supply toys having Same mains layout or SMPS board, Same enclosure (except for differences of decorative parts which do not affect the electrical safety), Same chassis, Same battery type & size(Alternate models of batteries may be evaluated as part of the main product and mentioned in the test report), Same processor/ controller and in the same **series (as per Sl No 1)**to be drawn and tested for considering GOL or CSOL.

Footnotes:

1 Similar Design pertains to models which have similar designs in terms of compliance to the safety requirements specified in the relevant Indian Standards. For electric toys, input source, mains layout etc as given in the table above will also constitute design parameters.

2 Same materials pertain to material of the same nature (i.e. LLDPE or PVC or HDPE or Cotton Fabric etc.).

5. APPLICATION FOR GRANT OF LICENCE

For manufacturers applying for grant of licence, a declaration/request as per format at **APPENDIX II** shall be submitted to BIS by the manufacturer through Manakonline, based on which the application shall be assessed and the scope of licence shall be defined by BIS.

6. APPLICATION FOR CHANGE IN SCOPE OF LICENCE

For manufacturers applying for change in scope of licence i.e. addition of a new series in the scope of their licence, a declaration/request as per format at **APPENDIX III** shall be submitted to BIS by the manufacturer through Manakonline, based on which the application shall be assessed and the scope of licence shall be revised by BIS

7. APPLICATION FOR ADDITION OF NEW MODELS IN THE SERIES ALREADY COVERED IN THE SCOPE OF LICENCE

Whenever a licensee intends to add new model(s) to a series already covered in the scope of licence, The declaration/request shall be submitted by the manufacturer as per **APPENDIX IV** through Manakonline and the information shall be noted by BIS and these additional models endorsed in the licence document by revising the Annexure to the licence document containing the series wise list of models. After submission of the information to BIS Branch Office through Manakonline*, the licensee may use the standard mark on toys with respect to such models without waiting for BIS to endorse the models in the licence. (Licensee shall be able to produce documentary proof of having submitted this information to BIS).

However, in case any discrepancy is observed post-facto due to which it is viewed that the models are not to be endorsed in the scope (e.g. if the models do not belong to the series as declared), Head of BIS Branch Office concerned, may, after giving the licensee an opportunity to explain, direct the licensee to cease marking on the toys of the relevant models, or in case the toys are already marked and dispatched, issue directions for product recall.

8. However, if any variety of toy pertains to a category/sub-category which is not covered in the 7 Categories and 146 sub-categories as per Annex I, the manufacturer shall declare the same**. In case of such varieties, the above sampling guidelines shall not apply and each such variety shall be required to be got tested from third party lab for covering them in the scope of licence.**

9. With respect to the "Starting Age" mentioned in the grouping, the manufacturer is free to specify an age higher than the starting age specified. However, scope of licence should clearly mention the starting age applicable.

10. The Scope of Licence shall be restricted based on the manufacturing and testing capabilities of the manufacturer.

11. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation and **samples of toys of different colours are tested in rotation,** to the extent possible..

ANNEX B

List of Test Equipment

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference			Test Equipment
	Test	Clause	IS	
1.	Small parts test	5.2	IS 9873 (Part 1):2019	Cylinder as shown in Figure 26
2.	Test for shape and size of certain toys	5.3	-do-	Test template A shown in Figure 27, Supplemental test template B shown in Figure 28
3.	Small balls test	5.4	-do-	Test template C shown in Figure 29
4.	Test for pompoms	5.5	-do-	test template C shown in Figure 29
5.	Test for pre-school play figures	5.6	-do-	Supplemental test template B shown in Figure 28
6.	Accessibility of a part or component	5.7	-do-	Articulated accessibility probe,
7.	Sharp-edge test	5.8	-do-	Sharp-edge test as per Figure 31, Steel Mandrel, Device for rotating the mandrel and applying a force to it, Pressure-sensitive polytetrafluoroethylene (PTFE) tape
8.	Sharp-point test	5.9	-do-	Point tester,
9.	Determination of thickness of plastic film and sheeting	5.10	-do-	A measuring device capable of measuring thickness to an accuracy of 4 µm with plane upper and lower measuring surfaces having a diameter of (6 ± 1) mm that are parallel to within 5 µm and have polished surfaces, and which applies a compression force of (0,75 ± 0,25) N.
10	Test for cords	5.11	-do-	Suitable apparatus capable of applying and measuring tensile forces up to (25 ±

				2) N, instruments to measure length and cross sectional area of cords e.g. an optical projector, head probe (see Figure 35), hook test fixture (Figure 36), mass of (1 ± 0,1) kg, conditioning chamber to maintain samples at a temperature of (25± 3) °C and at a relative humidity of 50 % to 65%.
11	Stability and overload tests	5.12	-do-	smooth surfaces inclined 10+0.5°/-0.0° and 15+0.5°/-0.0°, 10±1° to the horizontal plane, Loads for stability test (25 ± 0,2,50 ± 0,5 kg), Loads for overload test (35 ± 0,3, 80 ± 1,0, 140 ± 2,0)
12	Test for closures and toy chest lids	5.13	-do-	Suitable apparatus capable of applying and measuring tensile forces up to (45 ± 1,3) N in an outward direction to the inside of the closure perpendicular to the plane of the closure Durability test apparatus to subject the lid to 7 000 opening-and-closing cycles, where one cycle consists of raising the lid from its fully closed to its fully open position and returning it to fully closed. The time to complete one cycle shallbe approximately 15 s. The 7 000 cycles shall be completed within a time period of 72 h.
13	Impact test for toys that cover the face	5.14	-do-	Suitable apparatus to drop a steel ball with a diameter of (16 ± 0,15) mm and mass of (16,9 ± 0,7) g from a height of (130 ± 0,5) cm onto the horizontal upper surface of the toy in the area that would cover the eyes in normal use.
14	Kinetic energy and wall impact test	5.15	-do-	Timing device for determining the velocity, to give a calculated kinetic energy to an accuracy of 0,005 J.
15	Free-wheeling facility and brake performance test	5.16	-do-	Apparatus for Stability and overload tests, surface covered with aluminium oxide paper P60, Apparatus to Pull the toy at a constant speed of (2 ± 0,2) m/s and apply and measure forces of (50 ± 2) N to the pedal in the operating direction producing the effect of the brake, mass of (50 ± 0,5) kg
16	Determination of speed of electrically driven ride-on toys	5.17	-do-	mass of (25 ± 0,2) kg, horizontal surface, Apparatus to check if velocity exceeds 8 km/h.
17	Determination of temperature increases	5.18	-do-	ambient draft-free atmosphere with a temperature of (21 ± 5) °C, Thermometer/appropriate equipment to Measure the temperature of the accessible

				parts
18	Leakage of liquid-filled toys	5.19	-do-	Conditioning chamber to condition toy at a temperature of (37 ± 1) °C, Apparatus to apply a force of 5 N to the external surface of the toy through a steel needle with a diameter of (1 ± 0,1) mm and with a tip radius of (0,5 ± 0,05) mm
19	Durability of mouth-actuated toys	5.20	-do-	Durability test apparatus comprising piston pump capable of discharging and receiving more than 300 cm3 of air in less than 3 s to the mouthpiece of the mouth-actuated toy with a relief valve so arranged that the pump will not generate a positiveor negative pressure of more than 13,8 kPa.
20	Expanding materials	5.21	-do-	Conditioning chamber to condition the toy or component at (21 ± 5) °C and at a relative humidity of 40 % to 65 %, calipers, demineralized water, container of requisite dimensions, tongs
21	Folding or sliding mechanisms	5.22	-do-	Loads of mass (25 ± 0,2) kg and (50 ± 0,5) kg, horizontal surface, Apparatus/support frames to apply the loads
22	Washable toys	5.23	-do-	Automatic washing machine, dummy loads, washer, dryer or laundry detergent, Apparatus to measure mass (Weighing scale etc.)
23	Reasonably foreseeable abuse tests	5.24	-do-	Drop test: impact surface shall consist of vinyl composition tile of approximately 3 mm nominal thickness laid over concrete of at least 64 mm thickness. The tile shall have a hardness of (80 ± 10) Shore A and the impact surface shall be at least 0,3m2. Tip-over test for large and bulky toys: Apparatus to Gradually apply a force, which is not to exceed 120 N, in a horizontal direction and 1 500 mm above the horizontal surface or at the top edge of the toy for toys less than 1 500 mm in height. A non-resilient step with a height of (25 ± 2) mm shall be positioned such that it prevents sliding or rolling of the toy during the test. Dynamic strength test for wheeled ride-on toys other than toy scooters: Loads and Drive Torque test: torque gauge or torque wrench tp apply torque of (0,45 ± 0,02) N·m Tension and Compressiontest: Tension and Compression Test Apparatus with

				loading device equipped with a self-indicating gauge or other appropriate means to measure force applied to accuracy of 1 N Flexure test: Apparatus as per 5.24.8
24	Determination of sound pressure levels	5.25	-do-	Environment that meets the qualification requirements of either ISO 11201 or ISO 11202, Equipment for Noise measurement in dB including instrumentation system, including the microphone and cable as per class 1 instrument as specified in IEC 61672-1, standard test table as described in ISO 11202 (wooden top with a thickness of 4 cm or larger and leg construction providing a stable test surface), hypothetical box-shaped measurement surface (see Figure 43), reflecting plane (for example, concrete, tile or another hard surface) and a test rig for Pull or push toys, test rig for Cap firing toys
25	Static strength for toy scooters	5.26	-do-	Test masses for toy scooters of (50 ± 0,5) kg, (100 ± 1) kg of dimensions as per Figure 47
26	Dynamic strength for toy scooters	5.27	-do-	Load as specified in Figure 48, equipped with two articulated arms and a removable cushion with straps, platform
27	Brake performance for toy scooters	5.28	-do-	250 mm high platform (with stabilizers) with a total mass of (4,8 ± 0,2) kg as shown in Figure 49, mass of (50 ± 0,5) kg, (25 ± 0,2) kg, Setup to apply and measure force applied up to 20 kg/30 N.
28	Strength of toy scooter steering tubes	5.29	-do-	horizontal plane equipped to secure the toy scooter, mass of (25 ± 0,2) kg ¸(50 ± 0,5) kg, (100 ± 1) kg
29	Resistance to separation of handlebar	5.30	-do-	Setup to apply and measure force applied up to 90 N
30	Tension test for magnets	5.31	-do-	Tension test apparatuswith Nickel disc with a minimum nickel content of 99 %, a diameter of (30 ± 0,5) mm and thickness of (10 ± 0,5) mm.
31	Magnetic flux index	5.32	-do-	Magnetic flux index test apparatus with Direct current field Gauss meter, with a resolution of 5 G, capable of determining the field to an accuracy of 1,5 % or better. The meter shall have an axial type probe with an active area diameter of (0,76 ± 0,13) mm and a distance between the active area and probe tip of (0,38 ± 0,13) mm, Calliper, or similar device, with an accuracy of 0,1 mm.
32	Impact test for	5.33	-do-	Impact test for magnets apparatus with

	magnets			plane horizontal steel surface and arrangement to drop a metallic weight with a mass of (1 ± 0,02) kg, distributed over a diameter of (80 ± 2) mm, through a distance of (100 ± 2) mm onto the toy
33	Soaking test for magnets	5.34	-do-	Container of demineralized water maintained at a temperature of (21 ± 5) °C for 4 min
34	Determination of projectile range	5.35	-do-	Apparatus to Discharge the projectile using a discharge angle that will maximize the distance travelled (typically this is 45°). At the point of discharge, the projectile shall be disengaged from the discharge mechanism and in free flight.
35	Tip assessment of rigid projectiles	5.36	-do-	gauge shown in Figure 54
36	Length of suction cup projectiles	5.37	-do-	flat horizontal surface, measuring scale/tape
37	Yo-yo ball measurements	5.38	-do-	Setup for Yo-yo ball measurements including fixed clamping device
38	Flammability		IS9873 (Part 2):2017	Test burner as described in ISO 6941:2003 Conditioning and test chamber Fire extinguishers and other protective equipment
39	Migration of Certain Elements		IS 9873 (Part 3) : 2017	Reagents • Hydrochloric acid solution, *c*(HCl) = (0,07 ± 0,005)mol/l. • Hydrochloric acid solution, *c*(HCl) = (0,14 ± 0,010)mol/l. • Hydrochloric acid solution, *c*(HCl) = approximately 1mol/l. • Hydrochloric acid solution, *c*(HCl) = approximately 2mol/l. • Hydrochloric acid solution, *c*(HCl) = approximately 6mol/l. • General purpose reagent *n*-heptane, (C7H16); 99%. • Water of at least grade 3 purity, in accordance with ISO3696. Apparatus • Normal laboratory apparatusand • Plain-weave wire-cloth stainless steel metal sieve, of nominal aperture 0,5 mm and tolerances as

				indicated in Table A.1. • Means of measuring pH to an accuracy of ± 0,2 pH units. Cross-contamination shall beprevented. • Membrane filter, of poresize 0,45µm. • Centrifuge, capable ofcentrifuging at (5 000 ±500 • Means of agitating the mixture, at a temperature of (37 ± 2)°C. • Series of containers, of gross volume between 1,6 × and 5,0 × that of the volume of hydrochloric acidextractant • Analytical Weighing balance Instrumentation Suitable instrument having a detection limit of a maximum of 1/10 of the values to be determined
40	Stability of activity toys with a free height of fall of 600 mm or less	6.1.1	IS9873 (Part 4):2017	— Loads of mass (50 ± 0,5) kg and dimensions as given in Figure19. — Loads of mass (25 ± 0,2) kg and dimensions as given in Figure19. — Inclined plane of (10 ±1)°.
41	Stability of activity toys with a free height of fall of more than 600 mm	6.1.2	-do-	— Suitable device(s) to apply ahorizontal force of (120 ± 5)N. — Stops, ifneeded.
42	Stability of slides	6.1.3	-do-	— Loads of mass (50 ± 2) kg and dimensions as given in Figure19. — Inclined plane of (10 ±1)°.
43	Stability of swings and other activity toys with crossbeams more than 1 200 mm above the ground	6.1.4.1	-do-	— Suitable device(s) to apply ahorizontal force from 125 N to (2 000 ± 20) N according to Table4. — Stops, ifneeded.
44	Stability of swings and other activity toys with crossbeams 1 200 mm or less above the ground	6.1.4.2	-do-	— Loads of mass (25 ± 0,2) kg and dimensions as given in Figure19. — Blocks, if needed.

45	Stability of toddler swings	6.1.5	-do-	Pendulum test apparatus constructed in accordance with dimensions and materials specified in Figure 21.
46	Strength of toys other than swings	6.2.1	-do-	— Load(s) of mass (50 ± 0,5) kg and dimensions as given in Figure19. — Load(s) of mass (25 ± 0,2) kgand dimensions as given in Figure 19.
47	Strength of swings and similar toys	6.2.2	-do-	a) For swings, except those covered byb): — a load with a mass of (200 ± 10)kg; — loads with a mass of (50 ± 2)kg. b) For swings intended for children under 36 months and with suspension points 1 200 mm or less above the base level: — a load with a mass of (66 ± 3) kg.
48	Dynamic strength of barriers and handrails	6.3	-do-	— A pad with a length of 200 mm and a height of 50 mm minimum made of textile, leather or similar material and stuffed with suitable material and with a shape thatwill enable it to be attached to the top of a barrier orhandrail. — A device consisting of a pulley and a (25 ± 1) kg mass attached to one end of a non-elastic cord, that will enable a horizontal impact to be applied to the pad on the barrier or handrail by means ofa freefalling mass.
49	Determination of impact from swing elements	6.4	-do-	— Test mass, consisting of an aluminium sphere or semi-sphere of radius 80 mm ± 3 mm, and a total mass (including accelerometer) of (4,6 ± 0,05) kg. The impacting part between the surface struck and the accelerometer shall be homogeneous and free from voids. Cables connected to the accelerometer shall be placed in such a way that the effect on the mass of the test mass is minimized. An example is given in Figure24. — Accelerometer, mounted at the centreof gravity of the test mass assembly with the sensitivity axis aligned to within 2° of the direction of travel of the test mass, capable of measuring acceleration triaxially in the range of ± 500 g with an accuracy of ± 0,1 g and with a frequency range from 0 Hz to 10 000Hz. — Amplifier with a sampling frequency of 10 kHz and a cut-off frequency of 10kHz. — Two chains where the chain links have a thickness of material (diameter) of (6 ± 0,5) mm and an outer major dimension of (47 ± 2) mm. The chains shall be of equal length suspended from pivots 600mm apart at the same height as the suspension connectors, such that they meet at the

				point of connection to the test mass. The fictive prolongations of the chains shall meet in the centre of the test mass (see Figure 24).
50	Test for head and neck entrapment -	6.5	-do-	Test probes made of any suitably rigid material and with dimensions as given in Figures 25, 26 and 27. (Head and neck entrapment in completely bound openings) Test template made of any suitable rigid material and with dimensions as given in Figure 28 (Head and neck entrapment in partially bound and V-shaped openings)
51	Toggle test	6.6	-do-	Toggle test device as shown in Figure 31 a) comprising of: — toggle, as shown in Figure 31 b), made of polyamides (PA) (e.g. nylon) or polytetrafluroethylene (PTFE), which have been found to be suitablematerials; — chain, as shown in Figure 31c); — collar, detachable and with goodslip; — pole.
52	Test for protrusions	6.7	-do-	Test gauges made of any suitable rigid material and with dimensions as given in Figure 34. 50 (All Protrusions) A test gauge made of any suitable rigid material and with dimensions as given in Figure 36. (Protrusions in motion rides)
53	Durability test for suspension connectors and means of suspension	6.8	-do-	Test masses as specified in Table 5
54	Deflation of inflatable activity toys	6.9	-do-	Loading pad, made of a rigid material with a diameter of 400 mm. Additional loads, consisting of sandbags sufficient to make up the test loads as specified in Table 6.
55	Static load test for paddling pools with non-inflatablewalls	6.10	-do-	25 kg load
56	Test Methods For Finger Paints - Limits for primary aromatic amines	4.5.1	IS 9873 (Part 7) : 2017	Reagents: • Methanol., Acetonitrile, *tert*-Butyl methyl ether, Citrate/sodium hydroxide buffer, Sodium dithionite solution, Porous,granular ¯kieselguhr‖SPEcolumn, Anhydrous sodium sulfate, Certified amine standards

				• Internal standards for gas chromatography: IS 1: 2,4,5-Trichloroaniline, CAS No. 636-30-6., IS 2: 4-Amino-2-methylquinoline, CAS No. 6628-04-2., IS 3: Tributylphosphate, CAS No. 126-73-8; • Standard solutions: Stock solution of aromaticamines, • Calibration solutions, Internal standard solution, Recovery solution of aromaticamines Apparatus • Reaction vessel (50 ml conical flask)of temperature-resistant glass with tight-fittingcap. • Water bath, capable of maintaining a temperature of (37 ± 2) °C and (70 ±2) °C. • Column made from glass or polypropylene, 25 mm to 30 mm internal diameter, 140 mmto • 150 mm length, filled with about 20g porous,granular kieselguhr‖SPE material, fitted on theoutlet • with a glass fibre filter (or commercial SPEcolumn)3). • Vacuum rotary evaporator or equivalent low temperature sample concentrationsystem. • Pipettes 10 ml, 5 ml, 2 ml, 1ml. Instrumentation (The analysis shall be performed using equipment selected from the following list) • HPLC with gradient-elution andAD. • GC withMS.
57	Test Methods For Finger Paints - Limits for other impurities	4.5.2	-do-	Standards, reagents andsolvents • Hexane, analyticalgrade. • Cyclohexane, analyticalgrade. • Acetone, analyticalgrade. • trimethylpentane, analyticalgrade. • Toluene, analyticalgrade. • Cyclohexane (E.2.2): acetone (E.2.3) 1:1 v/vmixture. • Toluene (E.2.5):acetone (E.2.3) 2:1 v/v mixture. • Anhydrous sodium sulfate. • Hexachlorobenzene (HCB), CASNo

				118-74-1, > 99 %. • Commercial PCB standard mixtureor individual PCB congeners – PCB congener 11 (3,3'-Dichlorobiphenyl), CAS No: 2050-67-1; – PCB congener 28 (2,4,4'-Trichlorobiphenyl), CAS No: 7012-37-5; – PCB congener 52 (2,2',5,5'-Tetrachlorobiphenyl), CAS No: 35693-99-3; – PCB congener 101 (2,2',4,5,5'-Pentachlorobiphenyl), CAS No: 37680-73-2; – PCB congener 118 (2,3',4,4',5-Pentachlorobiphenyl), CAS No: 31508-00-6; – PCB congener 138 (2,2',3,4,4',5'-Hexachlorobiphenyl), CAS No: 35065-28-2; – PCB congener 153 (2,2',4,4',5,5'-Hexachlorobiphenyl), CAS No: 35065-27-1; – PCB congener 180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl), CAS No:35065-29-3; – PCB congener 209 (Decachlorobiphenyl), CAS No: 2051-24-3, • Benzo[α]pyrene (B[α]P), CAS No:50-32-8, > 99 %. • Internalstandards. ○ HCB 13C6, CAS No:118-74-1. ○ PCB congener 10113C12, CAS No: 37680-73-2. ○ PCB congener 13813C12, CAS No: 35065-28-2. ○ B [α]P d12, CAS No:63466-71-7. • Primary standardsolutions. • Calibrationstandards. Apparatus • Amber colouredglassbottle approximately 40 ml volume with tight-fitting screw cap. • Analytical balance, capable ofweighing to 4 decimal places. • Glass microfibre thimble, 33mm diameter x 100 mm. • Soxhlet extractor with siphon cupto hold a 33 mm diameter x 100 mm thimble. • Water cooledcondenser.

				• 250 ml round bottomflask. • Spark proof heatingmantle. • Sample concentration systemwith nitrogen gasstream. • Solid phase extraction column made from either glass or polypropylene, 25 mm to 30mm • internal diameter, 140 mm to 150 mm length, filled with about 20 g porous, granular kieselguhr‖SPEmaterial(or commercial SPEcolumn). Instrumentation • A gas chromatograph-mass spectrometricsystem • Analytical capillarycolumn
58	Determination Of Certain Phthalate Esters		IS9873 (Part 9):2017	Reagents • Dichloromethane, CAS No. 75-09-2, analytical grade or higher, free of phthalate esters. • Phthalate reference substances, DBP, BBP, DEHP, DNOP, DINP, and DIDP (see Annex A), minimum of 95 % purity. • Stock solution, 100 mg/l of DBP, BBP, DEHP, DNOP each, and 500 mg/l of DINP, DIDP each in dichloromethane • External Standard (ES) calibration solutions. • Internal Standard (IS) calibration solutions. Apparatus • Normal laboratoryglassware. • Gas chromatography-mass spectrometer (GC-MS), with a capillary column coupled to amass • Spectrometric detector (electron ionization, EI) used for theanalysis. See7.4.1. • Soxhlet extractor, see FigureB.1. • Solvent extractor, see FigureB.2. • Extraction thimble,cellulose. • Cotton wool, for extractionthimble. • Analytical balance, capable of measuring to an accuracy of 0,001 g. • Concentration apparatus, for example, a rotaryevaporator. • Solid phase extraction(SPE)

				cartridge, 1000 mg silica gel/6 ml tubes, or equivalent. • Volumetric flasks, of 5 ml, 10 ml, 25 ml, 50 ml, and 100 ml nominal capacity. • Pipettes, of 0,5 ml, 1 ml, 2 ml, 5 ml, and 10 ml nominalcapacity. • Polytetrafluoroethylene (PTFE) membrane filter, of pore size 0,45 µm
59	Tests for Safety of Electric Toys - Heating and abnormal operation test	9	IS 15644:2006	• Test corner consisting of two walls at right angles and a floor made of dull black-painted plywood having a thickness of approximately20mm. • 4 layers of Bleached cotton gauze having dimensions of 500mm x 500 mm anda specific mass of 40 g/m^2± 8g/m^2. • Fine-wire thermocouples and temperature recorder for determination of rise oftemperature • *Straight steel pin of length 25mm minhaving a diameter of 0,5 mm, or rod of length 100 mm min having* a diameter of 1.0mm • *powersupply* • Apparatus for needle flame test (AnnexB) • *Apparatus for low powercircuit determination*
60	Electric strength at operating temperature	10	-do-	• *powersupply* • *Voltmeter, ammeter,oscilloscope*
61	Moisture resistance	11	-do-	• Test apparatus as per 14.2.4of IS/IEC60529 • Humidity cabinet *capableof maintaining relative humidity of (93± 3) %.*
62	Electric strength at room temperature	12	-do-	• *powersupply* • *Voltmeter, ammeter,oscilloscope*
63	Mechanical strength	13	-do-	• *Impact Hammer test apparatusas per test Ehb of IS 9000 (Pt 7/ Sec 7)/ IEC 60068-2-75.*
64	Construction	14	-do-	• *powersupply* • *Voltmeter* • *Steel surface, cylindrical metallic 1 kg mass of dia80mm* • *Pull force gauge up to 90N*

				• *Calipers, measuring scale/tape*
65	Protection of cords and wires	15	-do-	• *Calipers, measuring scale/tape*
66	Components	16	-do-	• *Based on TC/Certification*
67	Screws and connections	17	-do-	• *Tools such as spanners, wrenches and pliers, torqueguage*
68	Clearances and creepage distances	18	-do-	• *Calipers, gauges, measuring scale/tape*
69	Resistance to heat and fire	19	-do-	• *Apparatus for ball pressure test of IS/IEC60695-10-2.* • *Apparatus for glow-wire test of IS/IEC60695-2-11,* • Apparatus for needle flame test (AnnexB)
70	Radiation, toxicity and similar hazards	20	-do-	• *As per IS 9873 (Part3)*
71	Power Input	8	-do-	• *Voltmeter,Wattmeter*
72	Marking	7	-do-	• *Petroleum spirit,water*

The above list is indicative only and may not be treated as exhaustive.

References to figure and table nos are to the respective figures and tables in the relevant Indian Standard

ANNEX C

Scheme of Inspection and Testing

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare and implement a calibration plan for the test equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. PACKING AND MARKING — The Standard Mark, as given in the Schedule of the licence, shall be marked on the primary packaging and/or on the toy itself legibly and indelibly, provided always that material so marked conform to requirements of the specification.**In case the Standard Mark cannot be incorporated on the product or packaging, it may be provided as an integral part of the package containing the toy in a manner accessible and evident to the consumer.**

3.1 Packing and marking/labelling including warnings and other instructions and information required to be provided (for assembly, maintenance etc.) shall be done as per the provisions of the Indian Standard. In addition, the model number and the following shall be incorporated on eachpackage:

i) BIS Licence NumberCM/L ..... and

ii) BIS website details i.e. ¯For details of BIS certification please visit **www.bis.gov.in**

5. CONTROL UNIT – For the purpose of this scheme, the entire quantity of the toys of the same type and series (See Sampling guidelines at Annex A) produced under similar conditions of manufacture shall constitute a control unit.

6. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2above.

6.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with StandardMark.

7. REJECTIONS – Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act,2016.

TABLE 1

LEVELS OF CONTROL

PART A:
LEVELS OF CONTROL FOR SAFETY ASPECTS RELATED TOMECHANICAL AND PHYSICALPROPERTIES
AS PER IS 9873 (PART 1):2019

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.3.1	**Material quality**	4.3.1	IS9873 (Part 1)	R	One	Each consignment of material	
4.3.2	**Expanding materials**	5.21	-do-	R	-do-	-do-	See notes below
4.4	**Small parts**	5.24, 5.2	IS9873 (Part1)	R	one	Each Control Unit	-do-
4.5	**Shape, size and strength of certaintoys**						-do-
4.5.1	**Squeeze toys, rattles, fasteners, and certain other toys and components of toys**	5.3	IS9873 (Part1)	R	one	Each Control Unit	-do-
4.5.2	**Small balls**	5.4, 5.24	-do-	R	one	Each Control Unit	-do-
4.5.3	**Pompoms**	5.24.6.3	-do-	R	one	Each Control Unit	-do-
4.5.4	**Pre-school play figures**	5.6	-do-	R	one	Each Control Unit	-do-
4.5.5	**Toy pacifiers**	**4.5.5**	-do-	R	one	Each Control Unit	-do-
4.5.6	**Balloons**	**4.5.6**	-do-	R	one	Each Control Unit	-do-

4.5.7	**Marbles**	5.24, 4.5.7	-do-	R	one	Each Control Unit	-do-
4.5.8	**Hemispheric-shaped toys**	5.24, 4.5.8	-do-	R	one	Each Control Unit	-do-
4.6	**Edges**						
4.6.1	**Accessible sharp edges of glass or metal**	5.8, 4.6.1	IS9873 (Part1)	R	one	Each Control Unit	-do-
4.6.2	**Functional sharp edges**	**4.6.2**	-do-	R	one	Each Control Unit	-do-
4.6.3	**Edges on metal toys**	**5.8, 4.6.2**	-do-	R	one	Each Control Unit	-do-
4.6.4	**Edges on moulded toys**	**4.6.4**	-do-	R	one	Each Control Unit	-do-
4.6.5	**Edges on exposed bolts or threaded rods**	5.24.7, 5.24, 5.24.5, 5.24.6.1, 4.6.5	-do-	R	one	Each Control Unit	-do-
4.7	**Points**						
4.7.1	**Accessible sharp points**	5.9	IS9873 (Part1)	R	one	Each Control Unit	-do-
4.7.2	**Functional sharp points**	4.7.2	-do-	R	one	Each Control Unit	-do-
4.7.3	**Wooden toys**	4.7.3	-do-	R	one	Each Control Unit	-do-
4.8	**Projections**	4.8	-do-	R	one	Each Control Unit	-do-
4.9	**Metal wires and rods**	5.24.8.2, 5.24.8.3, 5.24.6.4, 5.8, 5.9, 4.9	-do-	R	one	Each Control Unit	-do-
4.10	**Plastic film or plastic bags in packaging and in toys**	4.10, 5.10	-do-	R	one	Each Control Unit	-do-

4.11	**Cords**	5.11.1, 5.11.2, 5.11.3, 5.11.4, 5.11.5, 5.11.6	-do-	R	one	Each Control Unit	-do-
4.12	**Folding mechanisms**						
4.12.1	**Toy pushchairs, perambulators and similar toys**	4.12.1, 5.22.2	IS9873 (Part1)	R	one	Each Control Unit	-do-
4.12.2	**Other toys with folding mechanisms**	**4.12.2,** 5.22.3	-do-	R	one	Each Control Unit	-do-
4.12.3	**Hinge-line clearance**	**4.12.3**	-do-	R	one	Each Control Unit	-do-
4.13	**Holes, clearances and accessibility of mechanisms**						
4.13.1	**Circular holes in rigid materials**	**4.13.1**	IS9873 (Part 1)	R	one	Each Control Unit	-do-
4.13.2	**Accessible clearances for movable ,segments**	**4.13.2**	-do-	R	one	Each Control Unit	-do- **(see note (iii) below)**
4.13.3	**Chains or belts in ride-on toys**	**4.13.3,**5.7	-do-	R	one	Each Control Unit	-do-
4.13.4	**Other driving mechanisms**	**4.13.4**	-do-	R	one	Each Control Unit	-do-
4.13.5	**Winding keys**	**4.13.5**	-do-	R	one	Each Control Unit	-do-
4.14	**Springs**	**4.14**	-do-	R	one	Each Control Unit	-do-
4.15	**Stability and overload requirements**	4.15.1.1 to 4.15.1.3 ,5.12.2, 5.12.3,	-do-	R	one	Each Control Unit	-do-

		5.12.4, 5.12.5, 5.12.6					
4.16	**Enclosures**						
4.16.1	**Ventilation**	**4.16.1**	IS9873 (Part1)	R	one	Each Control Unit	-do-
4.16.2	**Closures**	**4.16.2,** 5.13.1, 5.13.2.1 , 5.13.2.2	-do-	R	one	Each Control Unit	-do-
4.16.3	**Toys that enclose the head**	**4.16.3**	-do-	R	one	Each Control Unit	-do-
4.17	**Simulated protective equipment, such as helmets, hats and goggles**	**4.17,** 5.14	-do-	R	one	Each Control Unit	-do-
4.18	**Projectile toys**	4.18.1 to 4.18.4, 5.15.1, 5.15.2, 5.35, 5.36, 5.37	-do-	R	one	Each Control Unit	-do-
4.19	**Rotors and propellers**	4.19, 5.35	-do-	R	one	Each Control Unit	-do-
4.20	**Aquatic toys**	**4.20**	-do-	R	one	Each Control Unit	-do-
4.21	**Braking**	4.21, 5.16.1, 5.16.2	-do-	R	one	Each Control Unit	-do-
4.22	**Toy bicycles**	4.22.1 to 4.22.3	-do-	R	one	Each Control Unit	-do-
4.23	**Speed limitation of electrically driven ride-on toys**	**4.23, 5.17**	-do-	R	one	Each Control Unit	-do-

4.24	**Toys containing a heat source**	**4.24,**5.18	-do-	R	one	Each Control Unit	-do-
4.25	**Liquid-filled toys**	**4.25,** 5.19	-do-	R	one	Each Control Unit	-do-
4.26	**Mouth-actuated toys**	4.26, 5.2, 5.24.5, 5.24.6.1 ,5.20	-do-	R	one	Each Control Unit	-do-
4.27	**Toy roller skates, toy inline skates and toy skateboards**	**4.27**	-do-	R	one	Each Control Unit	-do-
4.28	**Percussion caps specifically designed for use in toys**	**4.28**	-do-	R	one	Each Control Unit	-do-
4.29	**Acoustic requirements**	5.25	-do-	S	one	Each month	-do-
4.30	**Toy scooters**	4.30.1 to 4.30.8, 5.26, 5.27, 5.285.29, 5.12.2, 5.30	-do-	R	one	Each Control Unit	-do-
4.31	**Magnets and magnetic components**	5.31, 5.32, 5.2, 5.34, 5.24.2 or 5.24.3, 5.24.5, 5.24.6.1 , 5.24.6.2 , 5.33, 5.24.7	-do-	R	one	Each Control Unit	-do-
4.32	**Yo-yo balls**	5.38.1, 5.38.2	-do-	R	one	Each Control Unit	-do-

4.33	**Straps intended to be worn fully or partially around the neck**	5.11.3	-do-	R	one	Each Control Unit	-do-
4.34	**Sledges and toboggans with cords for pulling**	**4.34**	-do-	R	one	Each Control Unit	-do-
4.35	**Jaw entrapment in handles and steering wheels**	4.35, 5.39	-do-	R	one	Each Control Unit	-do-

Notes for IS 9873 (Part 1)

i. **Normaluse:**Alltoysshallbetestedinaccordancewiththerelevanttestsin5.1(general)to 5.22 (folding orsliding mechanisms) in order to ensure that risks as a result of normal wear and/or deterioration areminimized.Toys labelled as washable shall be subjected to washing in accordance with 5.23 (washable toys).After testing, the toy shall continue to conform to the relevant requirements of Clause 4 (requirements).

ii. **Reasonably foreseeable abuse:** After normal use tests, toys intended for children under 96 months, unless otherwise stated, shall be tested in accordance with the relevant tests in 5.24 (reasonably foreseeable abuse tests) to ensure that risks as a result of reasonably foreseeable abuse are minimized. After testing, the toy shall continue to conform to the relevant requirements of Clause 4(requirements).

iii. **Accessible clearances for movable segments as per Cl. 4.13.2** is applicable only for ride on toys where the potential for crushing of fingers or other appendages exists and not for smaller toys which prima-facie do not present risk of crushing fingers and appendages

iv. **Expanding Materials as per Cl. 4.3.2 test** applies only to toys made from materials which absorb water and therefore poses a risk of choking of a child swallows the toy or part thereof and it expands in the airway.

v. In case it is not practically possible to perform **Compression test as per Cl 5.24.7** due to the design/size of the toy, it should be concluded that this test is not applicable for such toys.

PART B:
LEVELS OF CONTROL FOR SAFETY ASPECTS RELATED TO FLAMMABILITYAS PER IS 9873 (PART 2):2017

(1)				(2)	(3)		
Test Details				**Test equipment requirement R: required (or) S: Sub-contracting permitted**	**Levels of Control**		
Cl.	**Requirement**	**Test Method**			**No. of Sample**	**Frequency**	**Remarks**
		Clause	**Reference**				
4.1	**General**	**4.1**	IS9873 (Part2)	S	One sample per series	**Once in six months**	Sample to be tested also if the material
							supplier changes
4.2	**Toys to be worn on the head**						
4.2.2	**Beards, moustaches, wigs, etc. made from *hair,* pile, or *material that behaves in a similar*** ***manner to hair* (e.g. free-hanging ribbons, paper, cloth strands, or other flowing elements), which** **protrude 50 mm or more from the surface of the toy**	**4.2.2,** 5.2	IS9873 (Part2)	S	One sample per series	**Once in six months**	Sample to be tested also if the material supplier changes

4.2.3	**Beards, moustaches, wigs, etc. made from *hair*, pile, or *material that behaves in a similar*** ***manner to hair* (e.g. free-hanging ribbons, paper, cloth strands, or other flowing elements),**	4.2.3, 5.3	IS9873 (Part2)	S	-do-	-do-	-do-
	which **protrude less than 50 mm and more than 5 mm from the surface of the toy**						
4.2.4	**Full or partial moulded head masks**	**4.2.4, 5.3**	IS9873 (Part2)	S	-do-	-do-	-do-

.2.5	**Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3),** **hoods, headdresses, etc. and masks not covered by 4.2.4 which partially or fully cover the head** **(e.g. fabric and cardboard masks, eye masks, face masks), but excluding those items covered by** **4.3**	**4.2.5,** 5.4	IS9873 (Part2)	S	-do-	-do-	-do-
4.3	**Toy disguise costumes and toys intended to**	**4.3, 5.4**	IS9873 (Part2)	S	-do-	-do-	-do-
	be worn by a child in play						
4.4	**Toys intended to be entered by a child**	**4.4,** 5.4	IS9873 (Part2)	S	-do-	-do-	-do-
4.5	**Soft-filled toys**	**4.5,** 5.5	IS9873 (Part2)	S	-do-	-do-	-do-

PART C:
LEVELS OF CONTROL FOR MIGRATION OF CERTAIN ELEMENTSAS PER IS 9873 (PART 3):2020

(1)				(2)	(3)		
Test Details				Test equipmen trequirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Sb, As, Ba, Cd, Cr, Pb, Hg, Se	8,9,10	IS 9873 (Part 3):2020	S	One sample per series	Once in 12 months	1. Sample also to be tested whenever supplier of material changes

PART D:
LEVELS OF CONTROL FOR SAFETY OF SWINGS, SLIDES AND SIMILAR ACTIVITY TOYS FORINDOOR AND OUTDOOR FAMILY DOMESTIC USE AS PER IS 9873 (PART 4):2017

(1)				(2)	(3)		
Test Details				Test equipmentrequirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	**General**						
4.1.1	**Static strength**	6.2.1	IS9873 (Part4)	S	One sample per series	**Once in six months**	Also to be tested whenever supplier of material changes
4.1.2	**Maximum height**	**4.1.2**	IS9873 (Part4)	S	-do-	-do-	-do-
4.1.3	**Corners and edges**	**4.1.3**	IS9873 (Part4)	S	-do-	-do-	-do-
4.1.4	**Protruding parts**						
4.1.4.1	**General**	**4.1.4.1**	IS9873 (Part4)	S	One sample per series	**Once in six months**	Also to be tested whenever supplier of material changes
4.1.4.2	**All protrusions**	**4.1.4.2,** 6.7.1	IS9873 (Part4)	S	-do-	-do-	-do-
4.1.4.3	**Upright protrusions**	**4.1.4.3,** 6.7.1	IS9873 (Part4)	S	-do-	-do-	-do-
4.1.4.4	**Motion rides**	**4.1.4.4,** 6.7.2	IS9873 (Part4)	S	-do-	-do-	-do-
4.1.4.5	**Slides**	**4.1.4.5,** 6.7.1.2	IS9873 (Part4)	S	-do-	-do-	-do-

4.1.5	**Climbing and swinging ropes, chains and cables**	**4.1.5**	IS9873 (Part4)	S	-do-	-do-	-do-
4.1.6	**Open tubing**	**4.1.6**	IS9873 (Part4)	S	-do-	-do-	-do-
4.2	**Barriers**	**4.2,** 6.5.1, 6.3	IS9873 (Part4)	S	-do-	-do-	-do-
4.3	**Rung ladders, stepladders and stairways**	**4.3**	IS9873 (Part4)	S	-do-	-do-	-do-
4.4	**Entrapment**						
4.4.1	**Head and neck entrapment**	**4.4.1,** 6.5.1	IS9873 (Part4)	S	One sample per series	**Once in six months**	Also to be tested whenever supplier of material changes
4.4.2	**Entrapment of clothing and hair**	**4.4.2,** 6.6	IS9873 (Part4)	S	One sample per series	**Once in six months**	Also to be tested whenever supplier of material changes
4.4.3	**Entrapment of feet**	**4.4.3**	IS9873 (Part4)	S	-do-	-do-	-do-
4.4.3	**Entrapment of fingers**	**4.4.3**	IS9873 (Part4)	S	-do-	-do-	-do-
4.5	**Stability of activity toys other than**						
	slides, swings and toys with crossbeams						
4.5.1	**General**	**4.5.1**	IS9873 (Part4)	S	-do-	-do-	-do-

4.5.2	**Stability of activity toys with a free height of fall of 600 mm or less**	**4.5.2,** 6.1.1	IS9873 (Part4)	S	-do-	-do-	-do-
4.5.3	**Stability of activity toys with a free height of fall of more than 600 mm**	**4.5.3,** 6.1.2	IS9873 (Part4)	S	-do-	-do-	-do-
4.6	**Slides**	**4.5.3,** 6.1.2	IS9873 (Part4)	S	-do-	-do-	-do-
4.6.1	**Stability of slides**	**4.6.1,** 6.1.3	IS9873 (Part4)	S	-do-	-do-	-do-
4.6.2	**Retaining sides for slides**	**4.6.2**	IS9873 (Part4)	S	-do-	-do-	-do-
4.6.3	**Starting, sliding and run-out section on slides**	**4.6.3**	IS9873 (Part4)	S	-do-	-do-	-do-
4.6.4	**Roller slides**	4.6.1 to 4.6.3, 4.6.4	IS9873 (Part4)	S	-do-	-do-	-do-
4.7	**Swings**						
4.7.1	**Stability of swings and other activity toys with crossbeams**	**4.7.1.1 to 4.7.1.3,** 6.1.4.1, 6.1.4.2	IS9873 (Part4)	S	-do-	-do-	-do-
4.7.2	**Strength of crossbeams, swing devices, suspension connectors and**	6.2.2	IS9873 (Part4)	S	-do-	-do-	-do-
	suspension couplings						
4.7.3	**Swings intended for children under 36 months**	**4.7.3.1 to 4.7.3.2,** 6.2.2.3. 2, 6.1.5	IS9873 (Part4)	S	-do-	-do-	-do-

4.7.4	**Impact from swing elements**	6.4	IS9873 (Part4)	S	-do-	-do-	-do-
4.7.5	**Minimum clearance between swing elements, and similar equipment and adjacent structures**	**4.7.5**	IS9873 (Part4)	S	-do-	-do-	-do-
4.7.6	**Lateral stability of swing elements**	**4.7.6**	IS9873 (Part4)	S	-do-	-do-	-do-
4.7.7	**Minimum clearance between swing elements and the ground**	**4.7.7**	IS9873 (Part4)	S	-do-	-do-	-do-
4.7.8	**Suspension connectors and means of suspension**	**4.7.8,** 6.8	IS9873 (Part4)	S	-do-	-do-	-do-
4.8	**Seesaws**	**4.8**	IS9873 (Part4)	S	-do-	-do-	-do-
4.9	**Carousels and rocking toys**	**4.9,** 6.1.1, 6.2.1	IS9873 (Part4)	S	-do-	-do-	-do-
4.10	**Inflatable**						
	activity toys						
4.10.1	**General**	**4.10.1**	IS9873 (Part4)	S	-do-	-do-	-do-

4.10.2	**Anchorage**	**4.10.2**	IS9873 (Part4)	S	-do-	-do-	-do-
4.10.3	**Connection tubes for continuous inflation**	**4.10.3**	IS9873 (Part4)	S	-do-	-do-	-do-
4.10.4	**Containment**	**4.10.4. 1 to 4.10.4. 4,** 6.9	IS9873 (Part4)	S	-do-	-do-	-do-
4.11	**Paddling pools**	**4.11.1 to 4.11.3, 6.10**	IS9873 (Part4)	S	-do-	-do-	-do-

PART E:
LEVELS OF CONTROL FOR REQUIREMENTS AND TEST METHODS FOR FINGER PAINTSAS PER IS 9873 (PART 7):2017

(1)				(2)	(3)		
Test Details				**Test equipment requirement R: required (or) S: Sub-contracting permitted**	**Levels of Control**		
Cl.	**Requirement**	**Test Method**			**No. of Sample**	**Frequency**	**Remarks**
		Clause	**Reference**				
4.1	**General**	4.1	IS9873 (Part7)	S	One sample per series	Once in 12 months	Also to be tested whenever supplier of material changes
4.2	**Colourants**	4.1 4.2.1 4.2.2 Table-1	-do-	S	One	Each consignment of colourant	-do-

		Table-2 Annex-A Annex-B Annex-C					
4.3	**Preservatives**	4.3 Annex-A Annex-D	IS9873 (Part7)	S	One sample per series	Once in 12 months	Also to be tested whenever supplier of material changes
4.4	**Migration of certain elements**	4.4	IS9873 (Part3)	S	-do-	-do-	-do-
4.5.1	**Limits for Primary Aromatic Amines**	4.5.1.1 4.5.1.2 Table-1 Table-2 Annex-A Annex-B Annex-C	IS9873 (Part7)	S	-do-	-do-	-do-
4.5.2	**Limits for other impurities**	4.5.2 Table-3 Annex-A Annex-E	-do-	S	-do-	-do-	-do-
4.6	**Taste and Smell**	4.6 Table-4 Annex-A	-do-	S	-do-	-do-	-do-

4.7	**pH Value**	4.7 Annex-A	IS9873 (Part7) IS 101(Pt.1/ Sec 8)	S	-do-	-do-	-do-
4.8	**Binding agents, extenders, humectants and surfactants**	**4.8** **4.1** Annex-F	IS9873 (Part7)	S	-do-	-do-	-do-
4.9	**N-Nitrosamines**	4.9 Annex-A	IS9873 (Part7) EN 71-12	S	-do-	-do-	-do-
4.10	**Container**	4.10 Annex-A	IS9873 (Part7)	S	-do-	-do-	-do-
A.11	**Labelling Guidelines**	Annex-A	-do-	R	Each Package of finger paint	Each Package of finger paint	

PART F:
LEVELS OF CONTROL FOR CERTAIN PHTHALATES ESTERS IN TOYS AND CHILDREN'SPRODUCTS
AS PER IS 9873 (PART 9):2017

(1)				(2)	(3)		
Test Details				**Test equipment requirement R: required (or) S: Sub-contracting permitted**	**Levels of Control**		
Cl.	**Requirement**	**Test Method**			**No. of Sample**	**Frequency**	**Remarks**
		Clause	**Reference**				
3	Maximum acceptable levels of phthalates						
i)	Vinyl in toys or childcare articles		IS9873 (Part6)	S	One sample per series	Once in 12 months	Also to be tested whenever supplier of material

							changes
ii)	Vinyl in any part of the toy or childcare article that can be placed in mouth of child under 4 years ofage		IS9873 (Part6)	S	-do-	-do-	-do-

PART G:
LEVELS OF CONTROL FOR SAFETY OF ELECTRIC TOYSAS PER IS 15644:2006

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
8	Power Input of transformer& dual-supply toys	8	IS 15644	R	One sample from each series	Once in a day	
9	Heating and abnormal operation	9.1 to 9.8	IS 15644	S	One model from each series	**Once in sixmonths**	
10	Electric Strength at operating temperature	10	IS 15644	S	One model from each series	Once in a month	
11	Moisture resistance	11.2 to 11.2	IS 15644	S	One sample from each series	Once in six months	
12	Electric strength at room temperature	12	IS 15644	S	-do-	-do-	
13	Mechanical Strength		IEC 60068-2-75	S	-do-	-do-	
14	Construction	14.1 to 14.14	IS 15644	S	-do-	-do-	

15	Protection of cords and wires	15.1 to 15.2	IS 15644	S	-do-	-do-	
16	Components	16.1 to 16.3	IS 15644	S	-do-	-do-	Certified components shall be used
17	Screws and Connections	17.1 to 17.2	IS 15644	S	-do-	-do-	
18	Clearances and creepage distances	181	IS 15644	S	-do-	-do-	
19	Resistance to heat and fire	19.1 to 19.2	IS 15644	S	-do-	-do-	
20	Radiation, toxicity and similar hazards		IS 9873 (Part 3)/ISO 8124-3	S	-do-	-do-	

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau. **However, the manufacturer shall berequired to establish test facilities for only those tests which are applicable to the varieties of toyscovered in his licence.**

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BOHead.

Note-3: Where one sample per series is being tested at a frequency specified under levels of control, it shall be ensured that different models are tested in rotation so that each model in the series is tested over a given period. **Samples of toys of different colours shall be tested in rotation, to the extent possible**

APPENDIX I

Categories and sub-categories of toys

Category A — 32 Sub-categories — Toys for sensorimotor activities — First age

Sub-category	Starting age	Description and examples of appropriate toys
1.	0 months+	**Rattles and rings**
2.	4 months +	**Teethers and teething rings**
3.	0 months +	**Mobiles, with or without sound** – toys with miscellaneous figures and shapes to be mounted above the crib and intended to be out of the reach of the child
4.	2 months +	**Crib gyms and playmats**– mats with simple play features or activities; may include overhead structures that may have dangling objects intended for the child to reach, grasp or hit
5.	3 months +	**Cradle and playpen toys** – balls, characters attached to cribs, strollers or enclosures
6.	4 months +	**Activity playboards**– boards that are attached to the crib with various play features such as miscellaneous coloured shapes, shatterproof mirrors, spin- ners that rattle, buttons to push, parts that slide on guides, doors that open
7.	3 months +	**Squeeze toys** – constructed of soft material, with or without internal rattle or noise feature
8.	4 months +	**Bath toys** – animals, small boats and floating objects
9.	6 months +	**Simple books made of textiles or plastic**
10.	2 months +	**Simple dolls and animals** – soft-stuffed dolls and animals made of fabric or plush with or without clothes and fixed details which cannot be removed
11.	8 months +	**Roly-poly toys, bop-punching toys and pop-up action toys** – figures and animals that rock in a to-and-fro motion, made of rigid or inflatable plastic, jack in the box, push-down spinning toys
12.	8 months +	**Books with thick (chunky) pages**
13.	5 months +	**Simple blocks, nesting toys, and stacking toys**
14.	6 months +	**Simple ball and track toys**
15.	18 months +	**Push-pull and rolling toys with cord or handle**
16.	6 months +	**Simple push/pull rolling toys (without cord or handle) which make sounds and / or have coloured lights** – wheeled animals or vehicles
17.	18 months +	**Wheelbarrows and other vehicles to fill up and empty**
18.	12 months +	**Boxes, tubs, buckets, and containers** – to store toys
19.	3 months +	**Cloth and similar soft material balls and geometric forms**
20.	18 months +	**Toys for sand and water** – pails, small shovels, moulds to play with sand and water
21.	12 months +	**Rocking animals and rocker chairs** – size suitable for children to ride and rock

22.	12 months +	**Push toys with a long handle that provides stability** – corn popper, lawn mower
23.	9 months +	**Learn to walk toys (walk behind)** – wheeled unit with a solid base and han- dle to support the child in the early stages of walking
24.	12 months +	**Self-standing foot to floor riding toys, trikes, without pedals** – wheeled toys, vehicles without pedals that are propelled by the power provided by the child's feet on the ground
25.	8 months +	**Soft materials in various shapes for stacking**
26.	12 months +	**Sliding beads on a fixed loop or shaft** – bead maze or frame
27.	12 months +	**Shape sorters with miscellaneous shapes and colours**- containers and vehicles with holes of different geometrical shapes that only allow parts to pass through the corresponding openings and to fall inside
28.	12 months +	**Tool benches, pounding benches** – toys simulating carpenter's benches (strictly pounding toys at this age)
29.	12 months +	**Mechanically and electrically operated toys** – vehicles, dolls, animal char- acters etc. made of plastic, metal, fabric or plush, with motions powered by spring or battery
30.	4 months +	**Balls or cylinders** – clear material with visible contents
31.	0 months +	**Musical boxes** – toys to be mounted on or near a crib with handle or button for adult activation
32.	6 months +	**Simple keyboards or hand-held toys with buttons that activate lights** **and sounds**

Category B — 23 Sub-categories — Toys for physical activities

Sub-category	Starting age	Description and examples of appropriate toys
33.	2 years +	**Pedal vehicles, kick scooters, walking bicycles, balance bikes** – tricy- cles, wheeled toys, stable vehicles with pedals, small two wheeled bicycles without pedals powered by the child's feet
34.	2 years +	**Child sized electrical vehicles** – battery powered vehicles to be driven by children
35.	3 years +	**Toy bicycles** – two-wheeled pedal bicycles with or without training/sup- porting wheels to provide stability
36.	6 years +	**Skates, two-wheeled scooters and in-line roller skates**
37.	3 years +	**Roller skates (except in-line)** – roller skates with wheels not positioned in linear (in-line) direction
38.	5 years +	**Flying objects** – kites, boomerangs, simple airplanes (with rubber band)
39.	3 years +	**Soap bubbles** – toys with accessories for blowing soap bubbles
40.	3 years +	**Bowling,—boccell-type games, ring toss games**-plastic or wooden pin bowling sets, rings for throwing
41.	12 months +	**Lightweight balls (plastic)**

42.	3 years +	**Toy versions of sporting equipment to imitate real sports versions –** baseball, basketball, cricket, golf, shuttlecock, tennis, badminton, or beach racquets
43.	4 years +	**Simple obstacle and hopscotch-type games**
44.	3 years +	**Games involving objects thrown at targets**
45.	4 years +	**Spinning tops without cord**
46.	4 years +	**Stilt walking (low height), hula hoops, rings to be balanced with a rod**
47.	6 years +	**Yo-yos and spinning tops with cord**
48.	6 years +	**Mini golf, cricket, billiards, table football, and other similar games**
49.	5 years +	**Jump rope**
50.	7 years +	**Electronic dancing mats** – for learning dance steps and for following com- plex dance routines
51.	3 years +	**Activity toys for indoor and outdoor domestic use** – toboggans, sleds, swings with open seating, higher slides with more steps, climbers and see-saws
52.	2 years +	A**ctivity toys for indoor or outdoor domestic use** – swing with seats that surround the child and short slides with few steps for climbing
53.	3 years +	**Aquatic toys** – boards, inflatables (animal/character shapes, boats)
54.	2 years +	**Wading or paddling pools (with adult supervision)**
55.	3 years +	**Simple electronic floor mats** – for following patterns, making music, learn- ing simple dance routines

Category C — 20 Sub-categories — Toys for intellectual activities

Sub-category	Starting age	Description and examples of appropriate toys
56.	4 years +	**Easy puzzles** – 20 to 150 interlocking parts
57.	2 years +	**Simple puzzles and plain-fitting parts** – puzzles with up to 20 large parts that have smooth edges and fit together without interlocking, may have pegs for grasping shapes for fitting parts together on trays
58.	7 years +	**Puzzles** – 150 to 500 interlocking parts
59.	18 months +	**Toy activity panels with fixed parts and turning gears activated by twisting motions or a crank**
60.	18 months +	**Simple building blocks with overlapping parts that may or may not interlock**
61.	2 years +	**Simple matching activities** – matching activities based on shapes, colours, or pictures
62.	3 years +	**Assembly, construction, or building sets** – parts with different shapes with diversified fittings and fastenings
63.	2 years +	**Building blocks that snap/fit together** – large parts with defined pattern for construction/fastening/assembly that may include features or themes
64.	18 months +	**Simple mechanical toys** – inclined planes to slide objects, toys actuated by paddles, wheels, and other parts, using water and/or sand
65.	7 years +	**Toys that involve or demonstrate elementary laws of physics**
66.	8 years +	**Experimental kits, scientific kits** – chemistry sets, human body in detail, organic material kits, crystals, herbariums, microscopes, habitats
67.	4 years +	**Question (images) and answer toys and games** – picture matching
68.	2 years +	**Educational toys** – alphabet and simple number learning

69.	3 years +	**Observation and reasoning toys and games** – memory games, games of chance, board games without strategy
70.	5 years +	**Time-learning games** – clocks, calendars, and toys for providing notions of hours, days, and months
71.	3 years +	**Educational toys** – quantity, size, volume, weight, space, and shape notions, learning to tell time
72.	6 years +	**Games involving spelling and numbers (usually individual player)** – crossword puzzles, word finding, Sudoku
73.	4 years +	**Logical and mathematical games** – logical sequences, time sequences
74.	6 years +	**Games with mathematical operations** – including fractions
75.	2 years +	**Computers, tablets, and hand-held games** – computer devices for play, such as simple questions and answers type or matching games; also may be multi-lingual

Category D — 12 Sub-categories — Toys that reproduce the technical world

Sub-category	Starting age	Description and examples of appropriate toys
76.	5 years +	**Functioning walkie-talkies and telephone sets for communication**
77.	4 years +	**Audio and audiovisual equipment with real functions** – portable media, karaokes, and microphones
78.	5 years +	**Home appliances with limited real function** – sewing machine, popcorn popper, mixer, blender, ice-cream machine, cotton-candy machine, etc. NOTE: Not all functioning appliances may be appropriate at this age, particu- larly toys connected to mains electricity or with heating functions.
79.	5 years +	**Detailed scale and/or more realistic vehicle replicas** – include features such as doors, hood (bonnet) and trunk (boot) that open and close
80.	18 months +	**Simple vehicle miniatures, without mechanisms** – cars, trains, motorcycles, trucks, aircrafts, boats, and ships, and others
81.	3 years +	**Mechanical and electrical vehicles which imitate adult versions (level of detail, proportional)** – spring or battery-powered cars, trucks, aircraft, boats
82.	4 years +	**Complex remote controlled vehicles with multi-direction and functionality**– cars, trucks, boats moved by remote control, radio or infrared command, or other
83.	6 years +	**Complex mechanical or electrical powered vehicles and machines** – construction equipment, dump trucks, hoists/cranes
84.	6 years +	**Tracks for electrical cars, trains and accessories** – auto tracks, train tracks, sophisticated circuits, with or without accessories, such as platforms, tunnels, obstacles, scenery, vehicles, etc.
85.	3 years +	**Non-powered vehicles and machines which imitate adult versions (level of detail, proportional)** – trucks, aircraft, boats, simple and light, constructed from plastic or wood which may or may not travel on tracks

86.	3 years +	**Simple transformable toys and objects** – toys whose parts can be moved to transform them from one character or object into another
87.	3 years +	**Robots with simple movements or controls**

Category E — 23 Sub-categories — Toys for the development of feelings and empathy

Sub-category	Starting age	Description and examples of appropriate toys
88.	9 months +	**Dolls, imaginary animal characters, with no removable components** – dolls representing fictional characters, including animal or human forms
89.	2 years +	**Lightweight dressed dolls, and dolls to dress (excluding fashion dolls)** – moving eyes, articulated arms and legs, rooted hair similar to real hair, animated activities, such as crying, bodily functions, smiling or talking, with easy to dress clothing and accessories for imitating familiar activities (bottle, blanket, etc.)
90.	3 years +	**Functioning strollers, cribs, and furniture for dolls which imitate real versions**
91.	2 years +	**Toy tableware, pots, and feeding accessories for dolls**
92.	2 years +	**Simple role playing toys** – home appliances sized to the child, stoves, kitchen sets
93.	3 years +	**Domestic appliances in a children's size that are more realistic but with- out actual function** – stove, sewing machine, pressing iron, blender, mixer, and other toy appliances
94.	2 years +	**Audiovisual equipment that imitates real equipment** – plastic versions that imitate radios, CD players, portable media players, telephones, cell phones, karaoke, and microphones which may have limited functions
95.	2 years +	**Miniatures of simple characters** – Animals, small soldiers, characters made of plastic such as zoo park, super-heroes, fantasy/fictional characters, and historical themes
96.	3 years +	**Articulated figures with limited accessories** – poseable characters with articulated limbs, moving head and simple mechanisms to simulate heroes, warriors, fictional or imaginative stories and battles
97.	12 months +	**Imitation dashboard panels** – controls imitating driving activities of cars, boats, airplanes or spaceships
98.	12 months +	**Simple costumes and disguises** – slip-on costumes without fasteners and with large openings for arms and legs; basic dress-up materials including hats, headscarves or other hair accessories and shoes
99.	2 years +	**Costumes, dress up clothing and accessories imitating characters of leg-ends and tales**-costumes sized to children with accessories such as masks, helmets, swords

100.	3 years +	**Objects imitating home and professional activities** – housekeeping ob- jects, carpenter and mechanic tools, physician and nurse instruments, police, firefighter and soldier objects such as helmets, tools, weapons and related accessories
101.	3 years +	**Beauty care accessories for dolls** - cosmetics, garments, clothing accesso- ries, high-heeled shoes, and small bags
102.	3 years +	**Soft or rigid playhouse toys with accessories sized to the children** – sales stands, post office
103.	2 years +	**Soft and rigid structures in which the child can play –** houses, caves, forts, tents, and tunnels
104.	3 years +	**Play sets imitating urban and rural areas** – commercial establishments, stores, banks, gas stations, parking lots, post offices, schools and classrooms, train and metro stations, hospital, airports, bus stations, zoo parks, Noah's Ark, fruit and vegetable sales stands, towns, farms, and any other toys that imitate places and regions
105.	2 years +	**Books** - contain special features such as pop-ups, hidden pictures and dress-me
106.	2 years +	**Themed mats for play** - mats for playing on the floor with designs imitating towns with streets
107.	4 years +	**Cards, stickers, and albums for collection** - with play function
108.	3 years +	**Doll houses and accessories** - houses with multiple rooms and furniture imitating kitchen, bedroom, dining room, etc.
109.	3 years +	**Fashion dolls and accessories** - articulated fashion dolls and their fashion accessories and complements, such as furniture, personal belongings, sports equipment and others
110.	18 months +	**Dolls for imitating care activities (bathing and feeding)** - simple dolls imitating babies, without hair or with moulded hair, with painted eyes and without articulated arms and legs

Category F — 21 Sub-categories — Toys for creative activities

Sub-category	Starting age	Description and examples of appropriate toys
111.	5 years +	**Pattern matching activities** - geometrical parts or pins, made of wood or plastic, coloured, to form figures or images
112.	4 years +	**Stamps with images of animals, characters, designs, alphabet, etc. for printing**
113.	3 years +	**Toys for creative activities** - coloured paper, felt boards, or plastic sticks to form scenes or figures, parts with magnets to form play scenes
114.	3 years +	**Body stickers or paints to be applied on the child** - cosmetics, tattoos for skin, and stickers for fingernails
115.	6 years +	**Crafts such as weaving looms, needle embroidery kits, or other sewing equipment**
116.	3 years +	**Insertion and tying toys and crafts** - threading beads on yarn or string etc.

117.	4 years +	**Perforated and cut out toys**
118.	8 years +	**Engraving and metal work in simple to complex detail**
119.	6 years +	**Clay and ceramic crafts for modelling**
120.	7 years +	**Folding crafts** – origami
121.	8 years +	**Mock-ups, technical models** – aircrafts, boats, cars, and motorcycles with parts to assemble
122.	3 years +	**Colouring and painting kits** – detailed materials, stencils, and templates for artwork; large assortment of coloured crayons, pencils, thin-tipped felt mark- er pens, and water colours
123.	2 years +	**Colouring and painting materials** – simple and limited assortment of mate- rials and templates for artwork; large (easy to grasp) crayons, chalk, broad- tipped felt marker pens, and finger paints
124.	4 years +	**Painting sets with water-based paints** – with brushes and accessories for paintwork or silk-screen
125.	4 years +	**Drawing sets** – toys with canvas and mats made of fabric, paper or plastic to draw, colour and/or erase, ¯magic tracing ‖ type toys, toys for reproduction and imitation of photocopies (pantographs), sets with writing boards, black- boards, or flip Charts
126.	3 years +	**Modelling (manual) and moulding (with moulds)** -manual modelling and moulding with putty or dough moulds, utensils for working with modelling putty
127.	5 years +	**Moulding with plaster and modelling sands**
128.	12 months +	**Musical toys** – simple musical instruments such as: pianos, guitars, drums, tambourines, horns, and others
129.	12 months +	**Simple play sets** – basic structure with three to five figures with limited detail
130.	4 years +	**Electronic musical instruments** – realistic and functional keyboards, elec- trical guitars, electronic drums
131.	3 years +	**Puppets and simple theatres** made of wood, plastic or fabric, with fixed eyes, and detachable accessories

Category G — 15 Sub-categories — Toys for social relationships

Sub-category	Starting age	Description and examples of appropriate toys
132.	4 years +	**Simple card games** – simple card games, card decks for family play
133.	7 years +	**Social family games** – games for several players, with predefined rules, whether or not requiring previous knowledge of miscellaneous subjects, from medium to difficult knowledge levels
134.	4 years +	**Co-operative games** – board games for teaching teamwork by emphasizing play rather than competition
135.	5 years +	**Games of chance –** dice, coin flipping, bingo, roulette
136.	4 years +	**Table games with pathways** – Table games with pathways to be travelled by using dice or spinners for indicating the number of moves

137.	4 years +	**Social games for young children** – with several players, involving a simple degree of difficulty
138.	5 years +	**Ability and skill games** – games for balancing parts, capturing, hitting the target, among others that require ability, and fast reaction
139.	4 years +	**Electronic ability and skill games** – videogames, hand-held videogames, toys that simulate real life by a virtual character (avatar)
140.	5 years +	**Simple strategy and reasoning games** – checkers, trading card games, dominoes, and similar
141.	6 years +	**Games for strategy and reasoning** – chess, table games that require strategy
142.	9 years +	**Simulation, conquering, and role-playing games** – RPG type and simulation, conquering and acquisition games, where the players must make decisions by reviewing several situations and using individual strategies for conquering territories, acquiring assets or real estate properties, building towns, deciding on new positions for characters so as to transform the story
143.	7 years +	**General knowledge games** – games involving knowledge on miscellaneous subjects
144.	6 years +	**Number and letter games (usually multiple players)** – games requiring the creation of or the discovery of hidden words or numbers
145.	7 years +	**Magic kits**
146.	6 years +	**Game collections** – boxes with miscellaneous games

APPENDIX II

FORMAT FOR DECLARATION BY MANUFACTURER
(TO BE SUBMITTED WITH APPLICATION FOR GRANT OF LICENCE)

Date:_____

_____Branch Office
Bureau of Indian Standards

Subject: Declaration For Application For Grant of Licence for Safety Of Toys Dear Sir,

With reference to my application for grant of licence to use Grant of Licence for Safety of Toys as per Indian Standards under Scheme I of Schedule II of BIS (Conformity Assessment) Regulations, 2018, I hereby declare the following:

1. I am applying for grant of licence/addition in scope of licence (strike out whichever is not applicable) for the following toys:

Type	Description of toy	Category No. and Name	Sub-category No. and Name	Input source for electric toy**	Starting Age	Series No.#	Applicable primary standard	Applicable Secondary standard
Non electric	Rattle	Category A- Toys for sensorimotor activities — First age	Subcategory 1- Rattles and rings	NA	0 months+	S01	IS 9873 Part 1	IS 9873 Part 2, 3 and 9
	Ring	-do-	-do-	NA	-do-			

*Details in the table are given for illustration. Also see sampling guidelines at Annex-A
** Input source for electric toys - battery operated, transformer operated or dual supply
#Details of models contained in each series with starting ages etc. shall be declared by manufacturer to BIS separately and BIS shall endorse the series wise details of models separately in the licence document as Annexure (see Annex-I)

2. I declare that the above **varieties of toys** in the same series are of similar design, made from the same materials and covered under a single sub-category. Design/Photographs and list of materials of the above models are enclosed **as per Annex-I**

3. I declare that I have read and understood the provisions of the BIS Guidelines for Certification of Toys as per Scheme I of Schedule II of BIS (Conformity Assessment) Regulations, 2018 and agree to abide by the same.

4. I declare that all details and information provided by me above and in my application are true to the best of my knowledge. In case of any discrepancies found in the declared information, I shall be liable for suitable action.

Regards

Signature of Firm's CEO/Director/Authorized Representative
Name/Designation:_____
Firm's Name/Address:_____

ANNEX-I

SERIES WISE LIST OF MODELS

LICENCE NO. CM/L- _____
NAME OF LICENSEE - _____

1. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

2. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

3. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

4. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

SIGNATURE OF HEAD BO, BIS
NAME
DESIGNATION
DATE

APPENDIX III

FORMAT FOR DECLARATION BY MANUFACTURER
(TO BE SUBMITTED WITH APPLICATION FOR CHANGE IN SCOPE OF LICENCE I.E. ADDITION OF NEW SERIES)

Date:_____

_____Branch Office
Bureau of Indian Standards

Subject: Declaration For Application For Change in Scope of Licence for Safety Of Toys

Dear Sir,

With reference to my application for Change in Scope of Licence for Safety of Toys i.e. addition of new series in the scope of licence as per Indian Standards under Scheme I of Schedule II of BIS (Conformity Assessment) Regulations, 2018, I hereby declare the following:

1. I am applying for addition in scope of licence for the following new varieties (new series) of toys:

Type	Description of toy	Category No. and Name	Sub-category No. and Name	Input source for electric toy**	Starting Age	Series No.#	Applicable primary standard	Applicable Secondary standard
Non electric	Rattle	Category A- Toys for sensorimotor activities — First age	Subcategory 1- Rattles and rings	NA	0 months+	S01	IS 9873 Part 1	IS 9873 Part 2, 3 and 9
	Ring	-do-	-do-	NA	-do-			

*Details in the table are given for illustration. Also see sampling guidelines at Annex-A
** Input source for electric toys - battery operated, transformer operated or dual supply
#Details of models contained in each series with starting ages etc. shall be declared by manufacturer to BIS separately and BIS shall endorse the series wise details of models separately in the licence document as Annexure (see Annex-I)

2. I declare that the above **varieties of toys** belong to a new series no._____which is not already covered in the scope of my licence.

3. I declare that I have submitted/will submit the requisite fees for extension in scope of licence to BIS.

4. I declare that I have read and understood the provisions of the BIS Guidelines for Certification of Toys as per Scheme I of Schedule II of BIS (Conformity Assessment) Regulations, 2018 and

agree to abide by the same.

5. I declare that all details and information provided by me above and in my application are true to the best of my knowledge. In case of any discrepancies found in the declared information, I shall be liable for suitableaction.

Regards

Signature of Firm's CEO/Director/Authorized Representative
Name/Designation:_____
Firm's Name/Address:_____

ANNEX-I

SERIES WISE LIST OF MODELS

LICENCE NO. CM/L- _____
NAME OF LICENSEE - _____

5. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

6. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

7. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

8. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

SIGNATURE

NAME
DESIGNATION
DATE

APPENDIX –IV

FORMAT FOR ADDING NEW MODELS TO SERIES ALREADY COVERED IN THE SCOPE OF LICENCE BY LICENSEE

Date:_____

____Branch Office
Bureau of Indian
Standards

Sir/Madam

Subject: Declaration addition of new models in the series already covered in scope of Licence for Safety Of Toys

With reference to my existing licence for safety of toys (Licence No CM/L-…..), I request BIS to add the following new models in the series which are already covered in the scope of my licence

1 SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

2. SERIES NO:_____(STARTING AGE:_____)

S.No.	MODEL NUMBER	TOY DESCRIPTION	TOY IMAGE/PHOTO

I declare that the above models belong to the series as indicated above which are already covered in my licence.

I declare that the above information is true and correct to the best of my knowledge and undertake that in case my declaration is found defective or incorrect BIS may take action as deemed appropriate as per the BIS Act, Rules and Regulations which we shall comply with including recall of such products from the market.

Sincerely,

SIGNATURE OF AUTHORISED SIGNATORY
NAME
DESIGNATION
NAME OF FIRM
CM/L-