



उत्पाद मैनुअल
बच्चों को दूध पिलाने के पलए स्टेनलेसस्टील की बोतल
आई एस 18800: 2023 के अनुसार

PRODUCT MANUAL
Stainless Steel Feeding Bottle for Infants
According to IS 18800: 2023

यह उत्पाद नियमावली सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसधारियों द्वारा विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना-1 के अंतर्गत प्रमाणन के संचालन में एकरूपता और पारदर्शिता सुनिश्चित करने के लिए संदर्भ सामग्री के रूप में उपयोग की जाएगी। बीआईएस प्रमाणन प्राप्त करने के इच्छुक भावी आवेदक भी इस दस्तावेज़ का उपयोग कर सकते हैं।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या / IS No.	:	IS 18800: 2023	
	शीर्षक / Title	:	Stainless Steel Feeding Bottle for Infants	
	संशोधनों की संख्या No. of amendments	:	01	
2.	नमूनाकरण दिशानिर्देश / Sampling Guidelines			
a)	कच्चा माल Raw material	:	Body of Feeding Bottle	Grade 304 as per IS 5522
				Grade 316L as per IS 6911
			Locking Ring	Either food grade polypropylene and its copolymer as per IS 10910, or steel of grade (as above)
			Protective Cover or Hood	Either food grade polypropylene as per IS 10910, or steel of grade (as above)
			Feeding Teat	IS 3565
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer ANNEX – A	
c)	नमूने का परिमाण Sample Quantity	:	15 nos.	
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	:	Same as the parameters given in scope of the licence under S. No. 6. <i>Note: Apart from the above, any other requirements/ parameters may also be declared as per the standard, as applicable.</i>	
3.	परीक्षण उपकरण की सूची List of Test Equipment	:	Please refer ANNEX – B	

4.	निरीक्षण एवं परीक्षण योजना Scheme of Inspection and Testing	:	Please refer ANNEX – C
5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	• Physical Requirements (Cl.5.1) • Drop Test (Cl. 5.3.2) • Compressive Deformation Resistance (Cl. 5.3.3) • Permanency of Pigments of Printed Container (Cl.5.3.4) <i>Note: This section is for the guidance of BIS Certification Officers/ Technical Auditors of BIS Authorized Outside Surveillance Agencies (OSAs) during factory inspection to provide ready reference regarding the tests which can be witnessed during the inspection in the factory by the officer/ auditor.</i>
6.	लाइसेंस का दायरा / Scope of the Licence:		
“License is granted to use Standard Mark as per IS 18800: 2023 with the following scope:			
Name of the product		Stainless Steel Feeding Bottle for Infants	
Nominal Capacity		Up to and including....ml (120 ml / 240 ml / any other capacity to be declared by the manufacturer)	
Material Grade of Body		Grade 304 as per IS 5522 / Grade 316L as per IS 6911	
Material of Locking ring		Polypropylene/ Stainless Steel	
Material of Protective Cover or hood		Polypropylene/ Stainless Steel	
Printing		With/without printing	

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9, BAHADUR SHAH ZAFAR MARG, NEW DELHI-110002
www.bis.gov.in

ANNEX -A **Grouping Guidelines**

1. Stainless Steel Feeding Bottle for Infants as per IS 18800: 2023 are classified based on the following:
 - i. Nominal capacity
 - ii. Material Grade of Body: Grade 304 as per IS 5522 / Grade 316L as per IS 6911
 - iii. Material of Locking ring: Polypropylene / Stainless Steel
 - iv. Material of Protective Cover or hood: Polypropylene / Stainless Steel
 - v. Printing: With/without printing
2. Considering the above, the guidelines given below shall be followed for GoL/CSoL:
 - Sample of Stainless Steel feeding bottles having maximum nominal capacity shall be tested for covering all nominal capacity upto and including tested nominal capacity.
 - Sample of Stainless Steel feeding bottles having its body made of each material grade shall be tested separately.
 - Sample of Stainless Steel feeding bottles having its locking ring made of each material shall be tested separately.
 - Sample of Stainless Steel feeding bottles having its protective cover (or) hood made of each material shall be tested separately.
 - If printed Stainless Steel feeding bottles are tested, Stainless Steel feeding bottles of same type without printing may also be covered.
3. The Firm shall declare the varieties of Stainless Steel Feeding Bottles they intend to cover in the Licence. The Scope of Licence may be restricted based on the Manufacturing and testing capabilities of the Manufacturer.
4. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

Note: The manufacturer shall submit the drawing of each variety of these Stainless Steel Feeding Bottles. The drawings shall have the following information:

- i. Design, shape and dimensions
- ii. Minimum wall thickness
- iii. Material of the body of stainless steel bottle, locking ring and protective cover (or) hood
- iv. Components supplied, if any, alongwith the Stainless steel feeding bottles
- v. With / without printing

ANNEX- B
List of Test Equipments
(Indicative List, For Guidance Only)

Major test equipment required to test as per the Indian Standard

Sl. No.	Cl. Ref.	Tests used in with Clause Reference	Test Equipment
1.	4	Material	Spectrometer Certified Reference Material
2.	5.1.2.2	Physical requirements (Small parts cylinder test)	Small parts cylinder
3.	5.1.3	Wall Thickness	Micrometer Vernier Caliper
4.	5.1.4	Capacity	Measuring cylinder Air conditioner
5.	5.2	Mechanical requirements	Test equipment and chemicals required as per Method I of IS 8747 Circulating air oven Balance Heat-Seal Laminate Heat-Sealing Unit Torque Meter Glass Beakers Polyethylene Bags Any environmental stress-cracking agent Conditioning chamber
6.	5.3.1	Leakage Test	Blotting paper Stop watch
7.	5.3.2	Drop Test	Test set up for drop test with dropping height of 1.2 m
8.	5.3.3	Compressive Deformation Resistance	Compression testing machine
9.	5.3.4	Permanency of Pigments of Printed Container	Sodium Bichromate Concentrated Sulphuric Acid Weighing scale Measuring cylinder

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

ANNEX C

Scheme of Inspection and Testing

1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or sub-contracting/ sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 Recommended Levels of Control/ Control Unit:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: *entire quantity of Stainless steel feeding Bottles of same nominal capacity from same material grade of body, locking ring and Protective cover or hood manufactured under similar conditions in a day* shall constitute a control unit.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in [Table 1](#). Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING

The manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

- i) Shared testing resources like common facility,
- ii) Cluster based testing facility,
- iii) Sub-contracting to outside laboratories which may either be:
 - a) BIS recognized/ empanelled laboratories, or
 - b) Any accredited laboratory as per ISO/IEC 17025

2.1 Test Records- The manufacturers shall maintain test records for the tests carried out (either in-house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKING AND MARKING

The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on the packaging of the Stainless steel feeding Bottles provided always that the Stainless steel feeding Bottles so marked conforms to each requirement of the specification.

3.1 Packing and Marking of Stainless steel feeding Bottles shall be done as per Cl. 6 of IS 18800: 2023.

3.2 **Additional Marking requirements:** The Stainless steel feeding Bottles shall also be marked with the following additional requirement on its packaging:

a) "For BIS certification details please visit www.bis.gov.in"

4. REJECTION

The production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. 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
(Recommended Levels of Control by BIS- for Guidance Only)

(1)				(2)		
Test Details				Levels of Control		
Cl.	Requirement	Test Methods		No. of Sample	Frequency	Remarks
		Clause	Reference			
4	Material					
4.1	Body of Feeding Bottle		IS 5522 / IS 6911	01	Each Consignment	No further testing is required if accompanied with the Test Certificate or ISI marked.
4.2	Locking Ring	4.2	IS 10910 / IS 5522 / IS 6911	01	Each Consignment	
4.3	Protective Cover or Hood	4.3		01	Each Consignment	
4.4	Feeding Teat	4.4	IS 3565	01	Each Consignment	
5	Requirement					
5.1	Physical Requirements	5.1.1 to 5.1.5	IS 18800	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
5.2	Mechanical Requirements	Method I	IS 8747	01	Each Control Unit	Applicable in case locking ring or protective cover is made of polypropylene.
5.3	Performance Requirements					
5.3.1	Leakage Test	5.3.1	IS 18800	01	Each Control Unit	
5.3.2	Drop Test	5.3.2 Annex B	IS 18800	10	Each Control Unit	
5.3.3	Compressive Deformation Resistance	5.3.3 Annex C	IS 18800	01	Each Control Unit	
5.3.4	Permanency of Pigments of Printed Container	5.3.4 Annex D	IS 18800	01	Each Control Unit	
6	Packing and Marking	6	IS 18800	Each Bottle		