



उत्पाद मानुयल
शौचालय साबुन, तरल — विशिष्ट
IS 4199 : 2001 के अनुसार

**PRODUCT MANUAL FOR
TOILET SOAP, LIQUID - SPECIFICATION
ACCORDING TO IS 4199:2001**

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन में रीति और पारदर्शिता के सुसंगत सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप में 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/certificate.

1.	उत्पाद Product	:	IS 4199 : 2001
	शीर्षक Title	:	शौचालय साबुन, तरल — विशिष्ट Toilet Soap, Liquid – Specification
	संशोधन संख्या No. of amendments	:	एक 1
2.	नमूनाकरण दिशानिर्देश / Sampling Guidelines		
a)	कच्चा माल Raw material	:	No specific requirement for raw material
b)	समूहिकरण दिशानिर्देश Grouping Guidelines	:	NA
c)	नमूने का परिमाण Sample Size	:	2 Bottles (1 Litre)

3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-A देखें Please refer Annex -A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-B देखें Please refer Annex -B
5.	एक दिन में संभावित परीक्षण Possible tests in a day	:	i) Total fatty matter [Table 1, Sl. No. i]) ii) Matter insoluble in alcohol [Table 1, Sl. No. ii]) iii) Free caustic alkali [Table 1, Sl. No. iii]) iv) Synthetic Detergent [Table 1, Sl. No. iv]) v) Determination of Phenolic Substances (Cl. 4.5.1)
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence :		
	IS 4199 : 2001 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है Licence is granted for use of the Standard Mark as per IS 4199 : 2001 with the following scope:		
	Name of the product	Toilet Soap, Liquid	

Annex – A

**LIST OF TESTS EQUIPEMENT
FOR TOILET SOAP, LIQUID - SPECIFICATION
ACCORDING TO IS 4199 : 2001**

Major test equipment required to test as per the Indian Standard

Sr. No.	Tests used in with Clause Reference	Test Equipment
1	Cl. 4.3	Suitable temperature-controlled chamber
2	Total Fatty Matter, (Table 1, Sl. No. i)	Weighing balance, Conical flask, Heater, Small funnel, Thermometer, Separating funnels, Pipettes, Steam-bath, Air oven, Suitable vessel, Dilute sulphuric acid, Methyl orange indicator, Sodium chloride, Ethyl ether, Acetone, Arrangement for blowing air, Water.
3	Matter insoluble in alcohol, (Table 1, Sl. No. ii)	Weighing balance, Ethyl alcohol, Reflux condenser, Steam bath, Filter flask, Filter paper, Watch glass, Phenolphthalein Indicator, Weighing bottle, Air oven, Desiccator, Gooch/Sintered glass crucible, Asbestos fibre pad, Distilled water, Ether
4	Free Caustic Alkali, (as K ₂ O) (Table 1, Sl. No. iii)	Method A – Weighing balance, Ethanol, Suitable covered vessel, Steam bath, Flask, Filter paper, Gooch/Sintered glass crucible, Watch glass, Phenolphthalein indicator, Heater, Standard sulphuric/Hydrochloric acid. Method B – Weighing balance, Flask, Ethyl alcohol, Cork with long tube, Water-bath, Phenolphthalein Indicator, Standard sulphuric/hydrochloric acid, Barium chloride dihydrate, Distilled water, Rectified spirit, Thymol blue indicator, Standard sodium hydroxide solution
5	Synthetic Detergent, (Table 1, Sl. No. iv)	Weighing balance, Beakers, Buchner flask, Separating funnels, Wide-mouthed Flat-bottom flask, Air-oven, Steam Bath, Caustic soda solution, Ethyl alcohol, Diethyl ether, Acetone, Phenolphthalein indicator, Methyl orange indicator, Ferric Ammonium Sulphate indicator, Standard Sulphuric acid (0.1 N), Standard Silver Nitrate Solution, Standard Ammonium Thiocyanate solution, Nitric Acid, Nitrobenzene, Volumetric flasks, Stoppered graduated cylinder (100 ml), Graduated cylinder (50 ml), Burette, Pipette, Chloroform, Sulphuric

		Acid (5 N), Standard Sulphuric Acid (1.0 N), Standard Sodium Hydroxide solution, Standard Sodium Lauryl Sulphate, Round bottom flask, Reflux condenser, Heat source/boiling water bath, water, Standard Benzethonium Chloride, Methylene Blue solution
6	Determination of phenolic substances, Cl. 4.5.1	Weighing balance, Sodium Hydroxide solution, Calcium Nitrate solution, Sodium bromate-bromide solution, Dilute Hydrochloric acid, Potassium Iodide solution, Standard Sodium Thiosulphate solution, Starch solution, Water, Volumetric flask, Pipette, Narrow-mouth stoppered bottle, Standard cresylic acid

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

Annex - B

SCHEME OF INSPECTION AND TESTING
FOR TOILET SOAP, LIQUID - SPECIFICATION
ACCORDING TO IS 4199 : 2001

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 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 stencilled on each container of liquid soap or printed on the label applied to the container, as the case may be, provided always that the material in each container to which this mark is thus applied, conform to every requirement of the specification.

3.1 Marking – Each container shall be legibly and indelibly marked to give the information as per clause 5.2 of IS 4199. In addition, the following details shall be mentioned on each container legibly and indelibly:

- a) BIS Licence No. CM/L..... and
- b) BIS website details i.e. – ‘For details of BIS certification please visit www.bis.gov.in’.

3.2 Packing – The material shall be packed as per clause 5.1 of IS 4199 : 2001.

4. CONTROL UNIT – For the purpose of this Scheme, the entire quantity of the material mixed in one operation shall constitute a control unit.

5. 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 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

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

(1)				(2)	(3)		
Test Details				Test equipment requirement R:Required (or) S:Sub contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Cl.	Reference				
4.1	Description	4.1	IS 4199	R	One	Each control unit	-
4.2	Keeping quality	4.2	IS 4199	R	One	Every 10 th Control Unit	Sample should be kept for six months
4.3	Cold test	4.3	IS 4199	R	Two	Each control unit	#
4.4	Odour	4.4	IS 4199	R	One	Each control unit	-
4.5	Colouring Matter	4.5	IS 4199	R	One	Each control unit	-
4.5.1	Phenolic substances	27	IS 286	R	One composite sample	Each control unit	*
4.6 & Table 1	i) Total fatty matter	16	IS 286	R	One composite sample	Each control unit	*
	ii) Matter insoluble in alcohol	6	IS 286	R	One composite sample	Each control unit	*
	iii) Free caustic alkali	Annex A	IS 4199	R	One composite sample	Each control unit	*
	iv) Synthetic detergent	Annex B	IS 4955	R	One composite sample	Each control unit	*

Two samples shall be drawn from the control unit one at the start of filtration process and the other when it is likely to be over. Both samples shall pass the requirements of the test.

* The composite sample shall be prepared from the two samples drawn for cold test from the control unit.

Note-1: 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 BO Head.