उत्पाद मैन्युअल
आई एस 4822: 2022 के अनुसार
पीतल एवं कांसे के खाना पकाने के बर्तन

दस्तावेज़ संख्या – पी एम/आई एस 4822/ अक्टूबर 2026

भारतीय मानक ब्यूरो की स्कीम–I (अनुरूपता मूलयाांकन) लवलनयम , *2018* के तहत यह उत्पाद मैन्युअल प्रमाणीकरण के प्रचालन में रीलत और पाररर्शगता की सुसंर्तता सुलनललत करने के ललए सभी क्षेत्रीय/शाखा कायागलयों और लाइसेंसी द्वारा संदभग सामग्री के रूप में उपयोर् दकया जाएर्ा। बीआईएस प्रमाणीकरण लाइसेंस/ प्रमाणपत्र प्राप्त करने के इच्छु क भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोर् दकया जा सकता है ।

PRODUCT MANUAL FOR
Brass and Bronze Cooking Utensils
ACCORDING to IS 4822:2022

Document No.- PM/IS 4822/October 2026

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.

भारतीय मानक ब्यूरो
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PRODUCT MANUAL FOR

BRASS AND BRONZE COOKING UTENSILS ACCORDING to IS 4822:2022

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1.	**Product**	:	IS 4822:2022	
	Title	:	Brass and Bronze Cooking Utensils	
	No. of Amendments	:	Nil	
2.	**Sampling Guidelines:**			
a)	**Raw material**	:	*Main Body*	Brass -IS 422 Bronze- IS 305., as applicable
			Lid, as applicable	i)Brass -IS 422 ii)Bronze- IS 305 iii) Stainless Steel- IS 5522 or IS 15997 iv) Tempered glass lid-Shall conform to requirements given in 3.5 & 6.2 of IS 4822 Stainless Steel rim of Tempered glass lid- IS 5522 or IS 15997 *if provided*
			Gasket	as per Cl. 3.6
			Wires or strips used for handles and rivets	IS 7608, IS 422or IS 291
b)	**Grouping guidelines**	:	Please refer ANNEX-A	
c)	**Sample Size**	:	Two Utensils	
3.	**List of Test Equipment**	:	Please refer ANNEX – B	
4.	**Scheme of Inspection and Testing**	:	Please refer ANNEX – C	
5.	**Requirements which can be tested in a day :** All tests			

6.	**Scope of the Licence :**
"Licence is granted to use Standard Mark as per IS 4822:2022 with the following scope:	
Name of product	Brass and Bronze Cooking Utensils
Main Body material	• Brass • Bronze
Duty	Light/Heavy duty
With Lid/Without Lid	
Material of Lid (For utensils with Lid)	
With handle/Without handle	
With/Without gasket	

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ANNEX A

Grouping Guidelines

1. Brass and Bronze Cooking Utensils as per IS 4822: 2022 shall be grouped based on the following :

   (a) Main Body material:
   - Brass
   - Bronze

   (b) Duty classification: Light/Heavy duty
   (c) Handle - With or without handle
   (d) Lid :

   - With Lid-Brass, Bronze, Stainless Steel or Tempered glass
   - Without Lid

   (e) Gasket: With or without gasket

2. The guidelines given below shall be followed for Grant of Licence/Change in Scope of Licence :

   a) Sample of utensil of each main body material (i.e. Brass or Bronze) shall be tested separately.

   b) Sample of each Lid material (Brass, Bronze or stainless steel or tempered glass), if provided, shall be tested separately to cover utensils with lids of all materials.

   c) Tempered glass lid, if provided, shall be tested separately to cover utensils with Tempered glass lid. However, if sample of utensil with lid is tested and found passing, then utensils without lid may also be covered without further testing. Also, if sample of lid with rim is tested and found passing, then lid without stainless steel rim may also be covered without further testing.

   d) If sample with gasket is tested and found passing, cooking utensils without gasket may also be covered without further testing.
   e) Sample of each duty class (Light/Heavy duty) shall be tested separately to cover both classes.
   f) Cooking Utensil of any shape and dimension may be tested to cover all shapes and dimensions.
   g) If utensil with handle is tested, utensils without handle may also be covered without further testing.

3. The Firm shall declare the varieties intended to be covered in the Licence. The Scope of Licence may be restricted based on the manufacturing 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.

Annex-B

List of Test Equipment

Indicative list of major test equipment required to test as per the Indian Standard (For guidance only)

Sr. No.	Test Equipment	Tests used in with clause reference
1	Micrometer	Thickness of Sheet as per *Clause* 4
		Permissible reduction in thickness as per *Clause* 4
2	Measuring Scale Vernier Caliper	Dimensions-Clause 4
3	Level Support Surface, Transparent Tape, Center Punch, Striking Tool(A hammer or mallet)	Fragmentation Test (Clause 6.2.1)
4	Level Support Surface, Marker, Steel Ball, Drop Apparatus	Ball Drop Test (Clause 6.2.2)
5	Air Circulating Oven, Water Measuring & Pouring Equipment,	Thermal Shock Test (Clause 6.2.3)
6	Impact Floor Surface, Drop Release Setup	Free Fall Test (Clause 6.2.4)

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 subcontracting/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 para2.1.

1.3 **RECOMMENDED LEVELS OF CONTROL/CONTROLUNIT/Batch**:

1.3.1 **Control Unit**: For the guidance of manufacturers, the recommended definition of Control Unit is quantity of utensil made by same manufacturing process duty classification (Light/Heavy) manufactured from the same sheet thickness manufactured in a day.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**. Manufacturers have 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 for the whole production.

2. ENSURING COMPLIANCE THROUGH TESTING-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 recognised/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 stablish 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. LABELLING, PACKING AND MARKING – Labelling, Packing and Marking shall be done as per IS 4822:2022. The Standard Mark as given in the Schedule of the licence shall be marked on each utensil, provided the product conforms to all applicable requirements of Indian Standard.

3.1 **Additional Marking Requirements**: Additionally, the following shall also be marked on product or package:

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- *For guidance only*)

(1)				(2)		
Test Details				**Levels of Control**		
Cl.	**Requirement**	**Test Methods**		**No. of Sample**	**Frequency**	**Remarks**
		Clause	**Reference**			
3	Material	3	IS 4822	One	Each Consignment	No further testing is required if accompanied with Test Certificate or ISI marked.
4	Shape and Dimensions	4	IS 4822	One	Each Control Unit	-
6.1	Handles	6.1	IS 4822 IS 13395	One	Each Consignment	One from smallest and one from largest size of handle used
5	Workmanship and Finish	5.1,5.2,5.3, 5.4	IS 4822	Firm should exercise adequate control so that whole production should meet the requirements		
6.2	***Tests on Tempered glass lid***					
6.2.1	Fragmentation test	6.2.1	IS 4822	One	Each consignment	
6.2.2	Ball drop test	6.2.2	IS 4822	One	Each consignment	
6.2.3	Thermal shock test	6.2.3	IS 4822	One	Each consignment	
6.2.4	Free fall test	6.2.4	IS 4822	One	Each consignment	
6.3	Nominal capacity	6.3	IS 4822	One	Each Control Unit	