

कृत्रिम गर्भाधान उपकरण — गॉब्लेट —  
विशिष्टि  
( पहला पुनरीक्षण )

Artificial Insemination Equipment —  
Goblets — Specification  
( First Revision )

ICS 65.020.30

© BIS 2024



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS  
मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI - 110002  
[www.bis.gov.in](http://www.bis.gov.in) [www.standardsbis.in](http://www.standardsbis.in)

## FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Animal Husbandry and Equipment Sectional Committee had been approved by the Food and Agriculture Division Council.

Goblets are used for storing frozen semen straws in cryo containers filled with liquid nitrogen. These are used by all the semen centres/stations across the country, therefore, the specifications of these goblets are crucial to be maintained and need to be standardized for reducing the variability and non-uniformity in colour and dimensions.

In this revision, the standard has been brought out in the latest style and format of the Indian Standards and following major modifications have been made based on the recent manufacturing practices:

- a) Use of aluminum for manufacture of goblets has been omitted and only high-density polyethylene recommended;
- b) Classification of goblets into types have been removed and dimensional requirements have been updated accordingly; and
- c) Goblets are recommended to be of white color only for establishing uniformity and easy identification of stored semen.

The composition of the Committee responsible for the formulation of this standard is given in [Annex A](#).

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*Indian Standard*

# ARTIFICIAL INSEMINATION EQUIPMENT — GOBLETS — SPECIFICATION

( *First Revision* )

## 1 SCOPE

This standard prescribes the material, dimensions and other requirements for goblets (see Fig. 1).

## 2 REFERENCE

The standards given below contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated was valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of this standard:

<i>IS No.</i>	<i>Title</i>
IS 7328 : 2020	Specification for polyethylene material for moulding and extrusion ( <i>third revision</i> )

## 3 MATERIALS

The goblet shall be made of high-density polyethylene (see IS 7328).

## 4 DIMENSIONS

**4.1** The height (H) of goblet shall be 120 mm  $\pm$  1 mm and the outer diameter (D) of goblet may vary based on the requirement however, the permissible tolerance on the outer diameter shall be  $\pm$  0.5 mm.

**4.2** The wall thickness of the goblet shall be 1.0 mm respectively. The tolerances on the thickness shall be  $\pm$  0.1 mm.

## 5 MANUFACTURE AND FINISH

The goblets shall be evenly and smoothly finished and shall be free from holes, pits, cracks, grooves and other defects. It shall be white coloured for easy identification of stored semen.

## 6 PACKING

The goblets shall be packed as agreed to between the purchaser and the supplier.

## 7 MARKING

### 7.1 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

**7.2** Each goblet shall be marked with the following particulars:

- a) Name of the material;
- b) Batch or code number; and
- c) Indication of the source of manufacture.

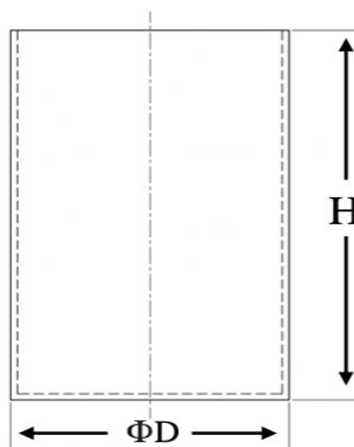


FIG. 1 GOBLET

To access Indian Standards click on the link below:

[https://www.services.bis.gov.in/php/BIS\\_2.0/bisconnect/knowyourstandards/Indian\\_standards/isdetails/](https://www.services.bis.gov.in/php/BIS_2.0/bisconnect/knowyourstandards/Indian_standards/isdetails/)

## ANNEX A

*(Foreword)*

## COMMITTEE COMPOSITION

Animal Husbandry and Equipment Sectional Committee, FAD 32

<i>Organization</i>	<i>Representative(s)</i>
Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Jammu	DR BHUPENDRA NATH TRIPATHI ( <i>Chairperson</i> )
All India Poultry Breeders Association, New Delhi	DR A. K. RAJPUT DR R. K. JAISWAL ( <i>Alternate</i> )
Animal Welfare Board of India, Faridabad	MS PRACHI JAIN DR DEBALINA MITRA ( <i>Alternate</i> )
Bihar Animal Sciences University, Patna	DR DEEP NARAYAN SINGH DR RANJANA SINHA ( <i>Alternate</i> )
Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Anjora	DR DHIRENDRA BHOSLE DR O. P. DINANI ( <i>Alternate</i> )
Department of Animal Husbandry and Dairying, Panchkula	DR BIRENDER SINGH LAURA DR DHARMVIR ( <i>Alternate</i> )
Federation of Indian Animal Protection Organizations, New Delhi	DR SIRJANA NIJJAR DR DINESH MOHITE ( <i>Alternate</i> )
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	DR NAVDEEP SINGH DR SIKH TEJINDER SINGH ( <i>Alternate</i> )
ICAR - Central Avian Research Centre, Bareilly	DR JAGBIR SINGH TYAGI DR JAIDEEP ROKADE ( <i>Alternate</i> )
ICAR- Central Institute for Research on Buffaloes, Hisar	DR R. K. SHARMA DR SUSHIL KUMAR PHULIA ( <i>Alternate</i> )
ICAR - Central Sheep and Wool Research Centre, Avikanagar	DR RANDHIR SINGH BHATT DR SROBANA SARKAR ( <i>Alternate</i> )
ICAR - Directorate of Poultry Research, Hyderabad	DR SANTOSH HAUNSHI DR M. NIRANJAN ( <i>Alternate</i> )
ICAR - Indian Veterinary Research Institute, Bareilly	DR SUBRATA KUMAR GHOSH DR AMIT KUMAR ( <i>Alternate</i> )
ICAR - National Research Centre on Equines, Hisar	DR S. C. MEHTA DR THIRUMALA RAO TALLURI ( <i>Alternate</i> )
ICAR - National Research Centre on Pig, Guwahati	DR R. THOMAS DR SUNIL KUMAR ( <i>Alternate</i> )
Indian Poultry Equipment Manufacturers Association, Hyderabad	SHRI HARISH RAJARAM GARWARE SHRI ANIL SOMNATH DHUMAL ( <i>Alternate</i> )
National Dairy Development Board, Anand	DR R. O. GUPTA DR A.V. HARIKUMAR ( <i>Alternate</i> )
National Dairy Research Institute, Karnal	DR ARUN KUMAR MISRA DR SURENDER SINGH LATHWAL ( <i>Alternate</i> )
National Egg Coordination Committee, New Delhi	SHRI AJIT SINGH SHRI BHAGWATI SINGH ( <i>Alternate</i> )
National Institute of Animal Nutrition and Physiology, Bengaluru	DR RAVI KIRAN G. DR RAMACHANDRAN ( <i>Alternate</i> )

<i>Organization</i>	<i>Representative(s)</i>
PETA India, Mumbai	DR KIRAN AHUJA MS FARHAT U. I AIN ( <i>Alternate</i> )
People for Animals, New Delhi	MS GAURI MAULEKHI MS SHREYA PAROPKARI ( <i>Alternate</i> )
Poultry Federation of India, Sonipat	SHRI RANPAL DHANDA SHRI RAHUL KHATRI ( <i>Alternate</i> )
Tamil Nadu Veterinary and Animal Sciences University, Chennai	DR S. MEENAKSHI SUNDARAM DR M. R. SRINIVASAN ( <i>Alternate</i> )
Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan University (DUVASU), Mathura	DR YAJUVENDRA SINGH DR MUNEENDRA KUMAR ( <i>Alternate</i> )
BIS Directorate General	SHRI SUNEETI TOTEJA, SCIENTIST 'F'/SENIOR DIRECTOR AND HEAD (FOOD AND AGRICULTURE) [REPRESENTING DIRECTOR GENERAL ( <i>Ex-officio</i> )]

*Member Secretary*  
SHRI PRADEEP SHARMA  
SCIENTIST 'B'/ASSISTANT DIRECTOR  
(FOOD AND AGRICULTURE), BIS

Panel on Expert Panel for Review of Standards on Animal Husbandry Equipment Panel,  
FAD 32 : P2

<i>Organization</i>	<i>Representative(s)</i>
ICAR - Indian Veterinary Research Institute, Bareilly	DR SUBRATA KUMAR GHOSH ( <b><i>Convener</i></b> )
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	DR NAVDEEP SINGH
National Dairy Development Board, Anand	DR R. O. GUPTA
Tamil Nadu Veterinary and Animal Sciences University, Chennai	DR S. MEENAKSHI SUNDARAM





## Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 2016* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

### Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Head (Publication & Sales), BIS.

### Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the website-[www.bis.gov.in](http://www.bis.gov.in) or [www.standardsbis.in](http://www.standardsbis.in).

This Indian Standard has been developed from Doc No.: FAD 32 (25109).

### Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

## BUREAU OF INDIAN STANDARDS

### Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones: 2323 0131, 2323 3375, 2323 9402

Website: [www.bis.gov.in](http://www.bis.gov.in)

### Regional Offices:

Central : 601/A, Konnectus Tower -1, 6<sup>th</sup> Floor,  
DMRC Building, Bhavbhuti Marg, New  
Delhi 110002

Telephones

{ 2323 7617

Eastern : 8<sup>th</sup> Floor, Plot No 7/7 & 7/8, CP Block, Sector V,  
Salt Lake, Kolkata, West Bengal 700091

{ 2367 0012  
{ 2320 9474

Northern : Plot No. 4-A, Sector 27-B, Madhya Marg,  
Chandigarh 160019

{ 265 9930

Southern : C.I.T. Campus, IV Cross Road, Taramani, Chennai 600113

{ 2254 1442  
{ 2254 1216

Western : 5<sup>th</sup> Floor/MTNL CETTM Technology Street, Hiranandani Gardens, Powai,  
Mumbai - 400076

{ 25700030  
{ 25702715

**Branches :** AHMEDABAD, BENGALURU, BHOPAL, BHUBANESHWAR, CHANDIGARH, CHENNAI, COIMBATORE, DEHRADUN, DELHI, FARIDABAD, GHAZIABAD, GUWAHATI, HARYANA (CHANDIGARH), HUBLI, HYDERABAD, JAIPUR, JAMMU, JAMSHEDPUR, KOCHI, KOLKATA, LUCKNOW, MADURAI, MUMBAI, NAGPUR, NOIDA, PARWANOO, PATNA, PUNE, RAIPUR, RAJKOT, SURAT, VIJAYAWADA.