**IS 13125 : 2024**

***भारतीय मानक***

***Indian Standard***

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**कृत्रिम गर्भाधान उपकरण — गॉब्लेट — विशिष्टि**

 *(पहला पुनरीक्षण)*

**Artificial Insemination Equipment — Goblets — Specification**

(*First Revision)*

ICS 65.020.30

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 भारतीय मानक ब्यूरो

 BUREAU OF INDIAN STANDARDS

 मानक भवन, 9 बहादुर शाह ज़फर मार्ग, नई दिल्ली - 110002

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Animal Husbandry and Equipment Sectional Committee, FAD 32

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 cry 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:

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

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 standards:

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| *IS No.* | *Title* |
| IS 7328 : 2020 | Specification for polyethylene material for moulding and extrusion (*third revision*) |

**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 ± 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 ± 0.5 mm.

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Fig. 1 Goblet

**4.2** The wall thickness of the goblet shall be 1.0 mm respectively. The tolerances on the thickness shall be ± 0.l 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 colored 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:

1. Name of the material;
2. Batch or code number; and
3. Indication of the source of manufacture.

**ANNEX C**

(*Foreword*)

**COMMITTEE COMPOSITION**

Animal Husbandry and Equipment Sectional Committee, FAD 32

| *Organization* |  | *Representative(s)* |
| --- | --- | --- |
| Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Jammu |  | Dr Bhupendra Nath Tripathi **(*Chairperson*)** |
| All India Poultry Breeders Association, New Delhi |  | Dr A. K. Rajput Dr R. K. Jaiswal (*Alternate*) |
| Animal Welfare Board of India, Faridabad |  | Ms Prachi Jain  Dr Debalina Mitra (*Alternate*) |
| Bihar Animal Sciences University, Patna |  | Dr Deep Narayan Singh Dr Ranjana Sinha (*Alternate*) |
| Dau Shri Vasudev Chandrakar Kamdhenu Vishwavidyalaya, Anjora |  | Dr Dhirendra Bhosle Dr O. P. Dinani (*Alternate*) |
| Department of Animal Husbandry and Dairying, Panchkula |  | Dr Birender Singh Laura Dr Dharmvir (*Alternate*) |
| Federation of Indian Animal Protection Organizations, New Delhi |  | Dr Sirjana Nijjar Dr Dinesh Mohite (*Alternate*) |
| Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana |  | Dr Navdeep Singh Dr Sikh Tejinder Singh (*Alternate*) |
| ICAR - Central Avian Research Centre, Bareilly |  | Dr Jagbir Singh Tyagi Dr Jaideep Rokade (*Alternate*) |
| ICAR- Central Institute for Research on Buffaloes, Hisar |  | Dr R. K. Sharma Dr Sushil Kumar Phulia (*Alternate*) |
| ICAR - Central Sheep and Wool Research Centre, Avikanagar |  | Dr Randhir Singh Bhatt Dr Srobana Sarkar (*Alternate*) |
| ICAR - Directorate of Poultry Research, Hyderabad |  | Dr Santosh Haunshi Dr M. Niranjan (*Alternate*) |
| ICAR - Indian Veterinary Research Institute, Izzatnagar |  | Dr Subrata Kumar Ghosh Dr Amit Kumar (*Alternate*) |
| ICAR - National Research Centre on Equines, Hisar |  | Dr S. C. Mehta Dr Thirumala Rao Talluri (*Alternate*) |
| ICAR - National Research Centre on Pig, Guwahati |  | Dr R. Thomas Dr Sunil Kumar (*Alternate*) |
| Indian Poultry Equipment Manufacturers Association, Hyderabad |  | Shri Harish Rajaram Garware Shri Anil Somnath Dhumal (*Alternate*) |
| National Dairy Development Board, Anand |  | Dr R. O. Gupta Dr Av Harikumar (*Alternate*) |
| National Dairy Research Institute, Karnal |  | Dr Arun Kumar Misra  Dr Surender Singh Lathwal (*Alternate*) |
| National Egg Coordination Committee, New Delhi |  | Shri Ajit Singhd  Shri Bhagwati Singh (*Alternate*) |
| National Institute of Animal Nutrition and Physiology, Bengaluru |  | Dr Ravi Kiran G. Dr Ramachandran (*Alternate*) |
| PETA India, Mumbai |  | Dr Kiran Ahuja Ms Farhat Ui Ain (*Alternate*) |
| People for Animals, New Delhi |  | Ms Gauri Maulekhi Ms Shreya Paropkari (*Alternate*) |
| Poultry Federation of India, Sonipat |  | Shri Ranpal Dhanda Shri Rahul Khatri (*Alternate*) |
| Tamil Nadu Veterinary and Animal Sciences University, Chennai |  | Dr S. Meenakshi Sundaram Dr M. R. Srinivasan (*Alternate*) |
| Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan University (DUVASU), Mathura |  | Dr Yajuvendra Singh Dr Muneendra Kumar (*Alternate*) |
| BIS Directorate General  |  | Shri Suneeti Toteja, Scientist ‘F’/Senior Director and Head (Food and Agriculture) [Representing Director General (*Ex-officio*)] |
| *Member Secretary*Shri Pradeep SharmaScientist ‘B’/Assistant Director(Food and Agriculture), BIS |

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Panel on Expert Panel for Review of Standards on Animal Husbandry Equipment Panel,

FAD 32 : P2

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| *Organization* | *Representative(s)* |
| ICAR - Indian Veterinary Research Institute, Izzatnagar | Dr Subrata Kumar Ghosh (***Convenor***) |
| 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 |