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BUREAU OF INDIAN STANDARDS**Approved Minutes**

| Name of the Committee | No. of Meeting | Date & Time | Venue |
|--|-----------------|--------------------------|---|
| Dairy Equipment Sectional Committee, FAD 33 | 2 nd | 29 May 2024 10:00 hrs | Anushilan (Copper room), Manak Bhawan, New Delhi Hybrid Mode (Physical + Virtual) |

CHAIRPERSON:

Dr. Pradyuman Barnwal
Chairman, FAD 33
Head,
Dairy Engineering Division,
ICAR-National Dairy Research Institute, Karnal

MEMBER SECRETARY:

Pradeep Sharma
Member Secretary, FAD 33
Scientist-B/Assistant Director
Food & Agriculture Department,
Bureau of Indian Standards, New Delhi

Attendance is enclosed at *Annex I* (see page 7)

Item 0 GENERAL**0.1 Welcome by BIS**

Mr Pradeep Sharma, Member Secretary of the Dairy Equipment Sectional Committee, FAD 33 welcomed all the committee members.

0.2 Opening Remarks by the Chairperson

Dr P. Barnwal, Chairperson, FAD 33 extended a warm welcome to all the committee members and appreciated them for their active participation in the meeting. In his opening remarks, he highlighted the importance of standard formulation in the field of dairy and other areas by BIS and also suggested all the members to prefer to join the meeting in physical mode by next time for better and interactive discussion.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE FIRST MEETING

The committee confirmed the minutes of the 1st meeting of Dairy Equipment Sectional Committee, FAD 33 held on 2 February 2024 through hybrid mode (physical & virtual) as circulated to the members vide email dated 11 February 2024 without any modification.

ITEM 2 SCOPE, ACTIVITIES & COMPOSITION OF THE SECTIONAL COMMITTEE**2.1 Scope & Activities of The Committee**

The committee noted the scope and program of work of FAD 33 as given in Item 2.1 of the agenda.

2.2 Composition of The Sectional Committee

The committee noted the updated composition of the sectional committee, FAD 33 as given in Annex 2 of the agenda.

2.2.2 The committee noted that the following organizations have not nominated their representatives in the committee:

- a) GOMA Engineering Private Limited.
- b) GEA
- c) Indian Dairy Engineers Association
- d) NDDB, Anand

Therefore, the committee requested Member Secretary to take follow up with them again and send a reminder letter once again. However, for seeking nomination from NDDB, Anand, the committee specifically suggested Member Secretary to write to Dr S. S. Sinha, Head, Dairy Engineering Division also.

2.2.3 The committee recommended Food and Agriculture Division Council to co-opt College of Dairy Technology, Tirupati in this committee, FAD 33.

ITEM 3 DECISIONS TAKEN

| Sl. No. | Item | Decision Taken |
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| 1. | Draft Indian Standard on Continuous Milk Pasteurizer — Specification | The committee renamed the name of FAD33/Panel 1 as “Dairy Equipment-I” and noted the updated composition of the panel as given below: a) Mr A. Subramani, Lactalis India (Convenor) b) Mr Rajkumar Malik, IDA, New Delhi c) Mr Rohit Kumar, ISSDA, New Delhi d) Mr Devender Gupta, IDMC, Udyog Nagar |
| 2. | Draft Indian Standard on Continuous Milk Sterilizer — Specification | e) Mr Anuj Koundal, Mother Dairy Fruit and Vegetable Limited, New Delhi f) Er Ankit Deep, ICAR-NDRI, Karnal g) Mr Ravi Kumar, In personal capacity Thereafter, the committee observed that these drafts are pending for more than 10 years, So, committee requested the panel to call a physical meeting at BIS, New Delhi to modify the drafts of specification for sterilizer and pasteurizer. |
| 3. | Draft Indian Standard on Cleaning-in-place (CIP) of dairy factory equipment — Code of Practice | However, for Draft Indian Standard of CIP, the committee decided to send this draft as a P-draft in the committee. |
| 4. | Draft amendment 2 of IS 16440 : 2016 Stainless Steel Milk Can — Specification | The committee reviewed the draft amendment as given in <i>Annex 6</i> of agenda and decided to send it among the committee members and the members of FAD33/Panel 1 for 15 days to seek their comments on the same, if any. Accordingly, if there is no comment, the draft amendment shall be sent into wide circulation (WC) for a period of 60 days after the approval of chairperson of the committee. |

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| 5. | IS 6684 : 1972 Specifications for Milk Can Trolleys | <p>The committee noted that inputs are awaited from Mr Sanjeev Sharma, Punjab State Cooperative Milk Producers Federation Limited (PSCMPFL), Punjab, however, Mr Harjinder Singh, PSCMPFL, Punjab mentioned that Mr Sanjeev Sharma had already shared his inputs.</p> <p>However, the committee requested Mr Harjinder Singh to share the input once again to the committee and to Er Ankit Deep, ICAR-NDRI, Karnal.</p> <p>The committee requested Er Ankit Deep to provide the draft revision within two month after receiving inputs.</p> <p>Thereafter, the committee, while reconstituting the panel and working group, decided to keep this standard under FAD33/Panel 2 “Dairy Equipment-II” (<i>see</i> sl. no. 11 of item 3).</p> |
| 6. | IS 2342 : 1963 Specification for Manually Operated Milk-Can Washer | <p>The committee reviewed the draft revision given in <i>Annex 7</i> of the agenda where following decisions were taken:</p> <p>a) Wooden block shall be replaced with food grade rubber or any other suitable material. b) Material shall be specified for all the components of this equipment. c) Only one material shall be specified for each component.</p> <p>As the members of FAD33/WG1 “Revision of IS 2342: 1963” are already in FAD33/Panel 2 (<i>see</i> sl. no. 11 of item 3), the committee decided to keep this standard in FAD33/panel 2 only and decided to dissolve this working group (FAD33/WG1).</p> <p>Thereafter, the committee requested this panel to provide the draft revision of this standard within 3 months (before 29 August 2024).</p> |
| 7. | IS 4743 : 2018 Settling Tanks for Ghee — Specification | <p>The committee observed that the members of FAD33/WG2 “Revision of IS 4743 : 2018” are also already in FAD33/Panel 2 (<i>see</i> sl. no. 11 of item 3), therefore, the committee decided to keep this standard in FAD33/Panel 2 and dissolve FAD33/WG2.</p> <p>Thereafter, the committee requested this panel to provide the draft revision of this standard within 3 months (before 29 August 2024).</p> |
| 8. | IS 2336 : 1963 Specification for Stainless Steel Milk Vats | <p>The committee noted and appreciated for the efforts made.</p> |
| 9. | IS 1825 : 1983 Specification for Aluminium Alloy Milk Cans (<i>second revision</i>) | <p>The committee noted that the draft revision had not been received from Dr P. S. Minz. Therefore, the committee constituted a separate working group (FAD33/a “Revision of IS 1825: 1983”), where the committee recommended the name of Dr Ravi Prakash, ICAR-CIPHET Ludhiana as convenor and Ms Arpita Muljibhai Rathva, SMC College of Dairy Science, Anand as expert member in the group, after their consent in this meeting. Considering the revision of this standard as a priority, the committee requested this group to provide the draft revision within 3 months (before 29 August 2024).</p> |
| 10. | IS 11585 : | <p>The committee reviewed the composition of the working group FAD33/WG3</p> |

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| | 2009 Insulated stainless steel silos for milk storage capacity 30, 40, 60 and 100 kilo litres — Specification (first revision) | <p>“Revision of IS 11585: 2009” and recommended to include Mr Pravin Prajapati, IDMC Anand as a convenor, Mr Pravin Tiwari, Tetra Pak India Private Limited, Pune, Mr Yogesh Vekariya, SMC College of Dairy Science, Anand, a representative from NDDB Anand and representatives from following organizations:</p> <ol style="list-style-type: none"> GOMA Engineering, Thane Repute Engineers Private Limited, Pune GEA, Vadodara <p>The committee also requested the Member Secretary to write a reminder letter to the organizations (a. to c.) to seek nomination.</p> |
| 11. | IS 2343 : 2009 Specification for can washing trough | <p>The committee noted the composition of FAD33/WG4 “Revision of IS 2343: 2009” and decided to dissolve this working group. Thereafter, the committee constituted the FAD33/Panel2 “Dairy Equipment II” where following expert members were recommended for this panel:</p> <ol style="list-style-type: none"> Mr Pravin Prajapati (<i>Convenor</i>) Dr Ravi Prakash Ms Arpita Muljibhai Rathva Mr Yogesh Kumar Vekariya Mr Sanjeev Sharma Dr R. K. Malik Er Ankit Deep <p>Thereafter, the committee requested this panel to provide the draft revision of all the standards coming under the purview of this panel within 3 months (before 29 August 2024).</p> |
| 12. | IS 2492 : 2019 Stainless Steel Milk Tankers (second revision) | <p>The committee recommended the names of Mr Saurabh Vyas, IDMC Anand & one representative from Engineering Division, NDDB Anand as expert members in FAD33/WG5 “Revision of IS 2492: 2019”.</p> <p>Thereafter, the committee requested Member Secretary to send the copy of this standard to those manufacturers of SS milk tankers who are actually interested in providing their inputs.</p> <p>Also, the committee suggested BIS Secretariat to subscribe and purchase following magazine and book, respectively where the details of the dairy equipment manufacturers may be found.</p> <ol style="list-style-type: none"> “Indian Dairyman” Magazine “Dairy India” Book of latest edition. |
| 13. | IS 5253: 1969 Guidelines for cleaning and sterilizing dairy equipment | <p>The committee reviewed the composition FAD33/WG6 “Revision of IS 5253: 1969” and decided to include Mr Sanjeev Sharma as a convenor of the group and Mr Pravin Tiwari as a member, in addition to the following members:</p> <ol style="list-style-type: none"> Mr Devender Gupta, IDMC Anand Dr Ankit Deep, ICAR-NDRI, Karnal Dr Yogesh Kumar, SMC College of Dairy Science, Anand Mr Somnath Pagire, Tetra Pak India Private Limited, Pune |

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| | | <p>e) Mr Sanjeev Sharma, PSCMPFL, Punjab f) Mr Anuj Koundal, Mother Dairy Fruit and Vegetable Limited, Delhi g) Representative from NDDB.</p> <p>Thereafter, the committee decided to change the title of this standard to “Guidelines for Cleaning and Sanitation of Dairy Plant” and requested to the group for changing the requirement and scope accordingly and provide the draft revision within 3 months (before 29 August 2024).</p> |
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ITEM 4 PHASING OUT OF MERCURY BASED PRODUCTS IN INDIAN STANDARDS

The committee noted the direction as received from Ministry of Environment and Forests to phase out the use of mercury from the standards by 2025 and following decisions have been taken:

| Sl. No. | Title | Decision Taken |
|---------|--|---|
| 1. | IS 1223: 2001 Apparatus for determination of milk fat By gerber method — Specification | The committee requested Member Secretary to check the relevant ISO standards for finding the alternate option of mercury and also to send these standards to NDDB-CALF and Jupiter Glass to seek their inputs regarding the same. |
| 2. | IS 2803: 1964 Specification for capillary Pipette for direct microscopic Count of milk | |
| 3. | IS 9585: 2021 Lactometers — Specification | |

ITEM 5 NEW WORK ITEM PROPOSAL

The committee discussed upon the standardization of plastic milk cans. Regarding material of plastic milk can, Dr Badal Dewangan, Joint Director & Head, Research & Development Department, IIP Mumbai submitted that there's extensive data on additives, however there is a lack of documented literature on compatibility of these additives with HDPE and specifying the exact point within the range where migration occurs and suggested BIS to carry out a study for the same.

Thereafter, Mr Saurabh Chaudhary apprised the committee about the schedule IV of Food Safety and Standards Authority of India (FSSAI), wherein, it is mentioned that “The cans/ containers made up of mild steel metal and plastic material used for storage and transportation of milk and milk products shall not be allowed.”

Accordingly, the committee ended the discussion with the conclusion that first the clarification shall be sought from FSSAI that whether committee should take up this subject or not.

ITEM 6 ANY OTHER BUSINESS

There were no other agenda, the meeting ended with a hearty vote of thanks by the Chairperson to all the committee members.

ITEM 7 TIME AND PLACE FOR THE NEXT MEETING

The committee suggested Member Secretary to hold next meeting (3rd meeting) at Anand, Gujarat within next 4 months.

ANNEX-I**ATTENDANCE SHEET**

| Sl No. | Organization Name | Members Name |
|-------------------------|--|---|
| 1. | National Dairy Research Institute, Karnal | Dr P. Barnwal (<i>Chairperson</i>) (Physical) |
| 2. | ICAR-Central Institute of Post-Harvest Engineering & Technology (CIPHET), Ludhiana | Dr Ravi Prakash (Virtual) |
| 3. | ICAR-National Dairy Research Institute, Karnal | Dr Chitranayak (Virtual) |
| 4. | Indian Dairy Association, New Delhi | Mr Raj Kumar Malik (Virtual) |
| 5. | Indian Institute of Technology Kharagpur, Kharagpur | Dr Bhupendra M Ghodki (Virtual) |
| 6. | Indigenously Manufacture Dairy Components Limited, Vithal Udyognagar | Mr Pravin Prajapati (Virtual) |
| 7. | Jupiter Glass Works, New Delhi | Mr Amreek Singh Puri (Physical) |
| 8. | Mother Dairy Fruit and Vegetable Limited, Delhi | Mr Anuj Koundal (Virtual) Mr Saurabh Chaudhary (Virtual) |
| 9. | National Institute of Food Technology, Entrepreneurship and Management, Thanjavur | Dr N. Venkatachalapathy (Virtual) |
| 10. | Punjab State Cooperative Milk Producers Federation Limited, Punjab | Mr Harjinder Singh (Virtual) |
| 11. | SMC College of Dairy Science, Anand | Mr Yogesh Kumar Vitthalbhai Vekariya (Physical) Ms Arpita Muljibhai Rathva (Virtual) |
| 12. | Tetra Pak India Private Limited, Pune | Mr Praveen Kumar Tiwari (Physical) |
| 13. | Food & Agriculture Department, BIS, New Delhi | Mr Pradeep Sharma |
| Special Invitees | | |
| 14. | Indian Institute of Packaging (IIP), Mumbai | Dr Badal Dewangan (Virtual) |
| 15. | Lactalis India, Chennai | Dr A. Subramani (Virtual) |
| 16. | CIPET, Raipur | Dr Ambika Joshi (Virtual) |