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| **भारतीय मानक ब्यूरो/ BUREAU OF INDIAN STANDARDS खाद्य एवं कृषि विभाग / Food and Agriculture Department कार्यसूची/ AGENDA** |

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| **अनुभागीय समिति का नाम**  **Name of the Sectional Committee** | **खाद्यान्न, संबद्ध उत्पाद और तैयार खाद्य पदार्थ, एफएडी 16**  **Foodgrains, Allied Products and Ready-to-Eat Foods Sectional Committee, FAD 16** |
| **बैठक क्रमांक / No. of Meeting** | **29th** |
| **दिन और दिनांक**  **Day and Date** | **सोमवार, 2 दिसम्बर 2024**  **Monday, 2 December 2024** |
| **समय**  **Time** | **10:30 बजे**  **10:30 hrs** |
| **बैठक का तरीका**  **Mode of the meeting** | **संकर**  **Hybrid** |
| **स्थान**  **Venue** | **आईसीएआर–केंद्रीय कटाई-पश्चात इंजीनियरिंग एवं प्रौद्योगिकी संस्थान (सीफेट), लुधियाना, पंजाब- 141004**  **ICAR–Central Institute of Post Harvest Engineering & Technology (CIPHET), Ludhiana, Punjab - 141004** |

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| **अध्यक्ष/ Chairperson**  **डॉ. नचिकेत कोतवालीवाले/ Dr. Nachiket Kotwaliwale**  **निदेशक/ Director,**  **आईसीएआर-** **सीफेट, लुधियाना**  **ICAR–CIPHET, Ludhiana** | **सदस्य सचिव/ Member Secretary**  **सुश्री लविका सिंह / Ms. Lavika Singh**  **वैज्ञानिक-सी/ Scientist- C**  **खाद्य एवां कृषि विभाग/ Food & Agriculture Department भारतीय मानक ब्यूरो/ Bureau of Indian Standards,**  **नई दिल्ली/ New Delhi -110002** |

**Item 0 GENERAL**

* 1. **Welcome by Member Secretary, FAD 16**
  2. **Opening Remarks by the Chairperson, FAD 16**

**Item 1 CONFIRMATION OF THE MINUTES OF THE LAST MEETING**

**1.1** The Minutes of the 28th meeting of Foodgrains, Allied Products and Other Agricultural Produce Sectional Committee, FAD 16 held on 20 August 2024 were circulated vide our BIS portal dated 13 November 2024. No comments were received.

***The Committee may FORMALLY CONFIRM the minutes as circulated.***

**Item 2 MERGER OF FAD 16 (FOODGRAINS, ALLIED PRODUCTS, AND OTHER AGRICULTURAL PRODUCE SECTIONAL COMMITTEE) AND FAD 24 (READY-TO-EAT FOODS AND SPECIALIZED PRODUCTS SECTIONAL COMMITTEE)**

Food and Agriculture Division Council (FADC) in its 30th meeting held on 30 November Council approved the merger of FAD 24 with FAD 16 as recommended by the two committees owing to similar scope and expertise, with the new title of FAD 16 as ‘Foodgrains, Allied Products, and Ready-to-Eat Foods Sectional Committee, FAD 16’. The Council approved the revised scope of FAD 16 (after merger of FAD 24) as recommended at Item 5.5.5 of the agenda and composition of the committee as recommended at Annex V of the agenda. The Council decided to appoint Dr Nachiket Kotwaliwale Director (by designation), ICAR-CIPHET, Ludhiana as the Chairperson of FAD 16 for a period of three years.

**Item 2 PLANNING FOR 2024-25**

**2.1 Rolling Annual Action Plan for 2024-25**

Rolling Annual Action Plan for the year 2024-25 for FAD 16 is enclosed at Annex I for consideration.



***The Committee may kindly review.***

**2.2 Annual Calendar of Sectional Committee Meetings**

The frequency of sectional committee meetings is increased to quarterly meetings. The draft plan for FAD 16 meetings is placed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Planned frequency (Months)** | **June 2024** | **August 2024** | **December**  **2024** | **March 2025** |
| **4** | **27 June** | **20 August** | **02 December**  **(CIPHET, Ludhiana)** | **February**  4th week  **(CFTRI, Mysore)** |

***The Committee may kindly note and decide the dates for the meeting***.

**Item 3 SCOPE, ACTIVITIES & COMPOSITION OF FAD 16**

**3.1 Scope & Activities of the Committee**

**3.1.1** The updated scope & activities of the Foodgrains, Allied Products and Ready-to-Eat Sectional Committee, FAD 16 is enclosed below as **Annex II**.



***The Committee may kindly note & deliberate.***

**3.2 Composition of the Sectional Committee**

**3.2.1** The updated composition of FAD 16 along with the attendance of the members for the last 3 meetings is enclosed below as **Annex III.**

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***The Committee may kindly Review.***

**3.3 Composition of Panels/WG Under the Committee**

**3.3.1** Detailed composition and scope of panels and working groups under FAD 16 is attached below as Annex IV:



***The Committee may kindly Review.***

**Item 4 REVIEW OF INDIAN STANDARDS**

**4.1** As per the provisions of the BIS rules and regulations every Indian Standard within five years of its publication/ earlier reaffirmation is to be reviewed by the concerned Sectional Committee under the following guidelines:

i) The Standard may be reaffirmed in the present form.

ii) The Standard may be reaffirmed with minor changes by issuing of an amendment.

iii) The Standard may be reaffirmed while simultaneously taking up for revision.

iv) The Standard may be withdrawn.

**4.2** Under this criterion, there is 3 Indian Standards are due for review in 2024-25.

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| **SI. No.** | **IS No.** | **IS Title** | **Decision of the Committee** |
|  | IS 609 : 2020 | Improvement of Existing Structures Used or Intended to be Used for Food Grain Storage — Code of Practice (*first revision*) | Allocated to Dr.  Kakasaheb  Konde and CIPHET, Ludhiana for review |
|  | IS 5503 (Part 2) : 2020 | General Requirements for Silos for Grain Storage Part 2 Grain Handling Equipment and Accessories (*first revision*) | Allocated to Dr.  Kakasaheb  Konde and CIPHET, Ludhiana for review |
|  | IS 6151 (Part 1) : 2020 | Storage Management Code Part 1 Terminology (*first revision*) | Allocated to Shri I.C. Chaddha and Dr. Vivek Babu for review  Comments Received from Shri IC Chadda is attached below as Annex V: |
|  | IS 12516 (Part 4) : 1996/ISO 27971:2008 | Method for determination of physical characteristics of doughs made from wheat flour: Part 4 rheological properties using an alveograph (*first revision*) | Reaffirm and Revise |
|  | IS 14366 : 1996 | Food processing machinery - Dough mixers - Safety and hygiene requirements | Reaffirm and Revise |
|  | IS 14367 : 1996 | Food processing machinery - Planetary mixers - Safety and hygiene requirements | Reaffirm and Revise |

***The Committee may kindly review.***

**4.3 Revision of Pre 2000 Indian Standards**

**4.3.1** The Committee reviewed the list of all Pre 2000 Standards under FAD 16. FAD 16 in its previous meetings, assigned the task of revision of various Pre 2000 Indian standards to various panels under FAD 16, technical experts, secretariat, and BIS officer on priority. List of Indian Standards published prior to 2000, under FAD 16 along with the work allocation/status is mentioned below at Table 1.

**Table 1 Category wise - List for Status/Allocation of Pre 2000 Standard under FAD 16 Category wise**

**I. Storage Specifications**

|  |  |  |  |
| --- | --- | --- | --- |
| **SI. No.** | **IS No.** | **IS Title** | **Status/Allocated to** |
|  | IS 9215 : 1979 | Specification for outdoor steel bins for foodgrain storage | FAD16/Panel 2/WG 2 'Review of Pre 2000 Indian Standards on requirements for foodgrains storage structures' |
|  | IS 631 : 1979 | Specifications for outdoor aluminium foodgrain storage bins |
|  | IS 5606 : 1970 | Specification for steel bins for grain storage |
|  | IS 7147 (Part 1) : 1973 | Specification for steel bins for domestic storage: Part 1 *Gharelu kothi* |
|  | IS 8453 : 1977 | Code of practice for construction of polyethylene embedded earthen bins for bulk storage of foodgrains |
|  | IS 5503 (Part 1) : 1969 | General requirements for silos for grain storage: Part 1 constructional requirements |

**II. Code of Practice**

|  |  |  |  |
| --- | --- | --- | --- |
| **SI. No.** | **IS No.** | **IS Title** | **Status/Allocated to** |
| 1. | IS 6151 (Part 2) : 1971 | Storage management code: Part 2 general care in handling and storage of agricultural produce and inputs | Under wide circulation |
| 2. | IS 6151 (Part 3) : 1976 | Storage management code: Part 3 specific care in handling and storage of agricultural produce and inputs | FAD 16/Panel II |
| 3. | IS 7003 : 1973 | Code for hygienic conditions for sago (Saboodana) manufacturing units | Member Secretary |

**III. Test Method**

|  |  |  |  |
| --- | --- | --- | --- |
| **SI. No.** | **IS No.** | **IS Title** | **Status/Allocated to** |
|  | IS 10699 : 1983 | Method for determination of specific heat of foodgrains | Dr. S Mangaraj, CIAE, Bhopal |
|  | IS 10698 : 1983 | Method for determination of thermal diffusivity of foodgrains |
|  | IS 8972 : 1978 | Determination of coefficient of friction of foodgrains |
|  | IS 9027 : 1978 | Method for determination of thermal conductivity of foodgrains |
|  | IS 6663 : 1972 | Method for determination of angle of repose of grains |
|  | IS 7716 :1975 | Method of testing efficacy of fumigation for disinfestation of grains in domestic bins | Under Publication |
|  | IS 11454 : 1985 | Method for measurement of carbon dioxide in the intergranular atmosphere | FAD 16/WG1:  i) Dr. Vivek Babu, CFTRI  ii) Dr. Guru PN, Scientist, CIPHET, Ludhiana  iii) Shri IC Chadda  Draft revision submitted by WG1 is attached below as Annex VI: |
|  | IS 6261 : 1971 | Methods of analysis for detection of insect and rodent contamination in grains and milled products |
|  | IS 11396 : 1985 | Test methods for determination of storability (Safe Storage Life) of foodgrains |
|  | IS 12529 : 1988 | Storage of foodgrains - Storage losses by insects - Methods for estimation |
|  | IS 10768 : 1984 | Method of test for quality characteristics of pulses | FAD16/WG 2:   1. Dr. Prasoon Verma, ICAR-IIPR, Kanpur 2. Dr. Punit Chandra, In Personal Capacity 3. Dr. Pal Murugan. M, DFRL, Mysore 4. Dr. S. C. Khurana, In Personal Capacity 5. Representative from CFTRI 6. Dr. Vaibhav, IIPR, Kanpur |
|  | IS 11261 (Part 1) : 1985 | Method for assessment of post - Harvest grain losses by rodents: Part 1 general considerations, direct measurement techniques and biological aspects of survey procedures | FAD 16/Panel II (Dr. Mohan Rao) |
|  | IS 11261 (Part 2) : 1985 | Method for assessment of post - Harvest grain losses by rodents: Part 2 loss determination by population assessment and estimation procedures | FAD 16/Panel II (Dr. Mohan Rao) |
|  | IS 4662 : 1977 | Methods for sampling of starches and starch products | NIFTEM-T, Thanjavur |
|  | IS 4706 (Part 1) : 1978 | Methods of test for edible starches and starch products: Part 1 physical methods (*first revision*) |
|  | IS 4706 (Part 2) : 1978 | Methods of test for edible starches and starch products: Part 2 chemical methods (*first revision*) |
|  | IS 7715 : 1975 | Method for testing suitability of bins for safe storage of food grains | FAD 16/Panel II |
|  | IS 4333 (Part 5) : 1970 | Methods of analysis for foodgrains: Part 5 determination of uric acid | Completed wide circulation |
|  | IS 8184 : 1976 | Method for determination of ergot in foodgrains | Ms. Neha Kumari BIS Officer |

**II. Food Processing Equipment**

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| --- | --- | --- | --- |
| **S. No.** | **IS No.** | **IS Title** | **Decision of the Committee** |
|  | IS 14367 : 1996 | Food processing machinery - Planetary mixers - Safety and hygiene requirements | To be allocated |
|  | IS 14366 : 1996 | Food processing machinery - Dough mixers - Safety and hygiene requirements |
|  | IS 12230 : 1987 | Specification for sandwich bread moulds |

**III. Terminology**

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| --- | --- | --- | --- |
| **S. No.** | **IS No.** | **IS Title** | **Status** |
|  | IS 9373 : 1979 | Glossary of terms relating to bakery industry | Reviewed by BIS intern  Inputs provided by interns is attached below as Annex VII: |
|  | IS 9216 : 1992 | Nutrition and nutritious foods glossary of terms (First Revision) | To be allocated |
|  | IS 9328 : 1989 | Confectionery industry glossary of terms (First Revision) | To be allocated |

**IV. Code of Practice**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No.** | **IS No.** | **IS Title** | **Status** |
|  | IS 13285 : 1992 | Guidelines for addition of essential nutrients to food | To be allocated |
|  | IS 5059 : 1969 | Code for hygienic conditions for large scale biscuit manufacturing units and bakery units (*second revision*) | Reviewed by BIS intern  Draft revision submitted by interns is attached below as Annex VIII: |
|  | IS 7802 : 1975 | Code of hygienic conditions for sweetmeat shops | To be allocated |

**V. Test Methods**

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **IS No.** | **IS Title** | **Status** |
|  | IS 12516 : Part 3 : 1988 | Method for determination of physical characteristics of doughs made from wheat flour: Part 3 water absorption and rheological properties using a valorigraph | Reaffirmed |
|  | IS 12516 : Part 4 : 1996/ ISO 27971:2008 | Method for determination of physical characteristics of doughs made from wheat flour: Part 4 rheological properties using an alveograph (*first revision*) | To be withdrawn upon publication of new standard [FAD 24(24277)] |
|  | IS 12711 : 1989 | Bakery products – Methods of analysis | Reviewed by BIS intern  Draft revision submitted by interns is attached below as Annex IX: |
|  | IS 12741 : 1989 | Bakery products – Methods of sampling | Reviewed by BIS intern  Draft revision submitted by interns is attached below as Annex X: |
|  | IS 6287 : 1985 | Methods of sampling and analysis for sugar confectionery (*first revision*) | To be allocated |

***The Committee may kindly Review***

**Item 5 R&D PROJECT TO BE TAKEN UP**

**5.1 Method for Degree of Milling of Rice**

FAD 16 had taken up a R&D Project for development of test method for determination of degree of milling of rice. Various research and academic institutions had submitted R&D proposals on the basis of Terms of Reference, prepared by FAD 16. The R&D proposals were technical reviewed in the evaluation committee of BIS, which included Dr. Deepika Goswami, CIPHET, Ludhiana and Mr. Ravi Sinha, FCI, New Delhi as representatives of FAD 16. After technical evaluation and financial bidding, the R&D Project has been awarded to IIT Kharagpur. Stage 1 Review Report has been submitted by IIT Kharagpur and attached below as Annex XI. The committee has to review the report and provide its view to allow BIS for releasing first instalment of fund for R&D Project.



***The Committee may kindly Review in Detail.***

**Item 6 DRAFT INDIAN STANDARDS FOR PRELIMINARY DRAFT CIRCULATION**

**6.1 Sealed Silos for Storage of Foodgrains - Sealing Requirements [FAD 16 (26964)]**

As decided in the 28th meeting of FAD 16, preliminary draft of ‘Sealed Silos for Storage of Foodgrains - Sealing Requirements’ [FAD 16 (26964)] was circulated to all committee members for a period of 21 days, through BIS Portal, and last date of commenting is 12 December 2024. As per the declaration form signed by all the committee members, all the members of FAD 16 are required to provide comments on the draft. Even if, draft is approved, the approval should be conveyed to secretariat through BIS Portal. Draft standard is attached below as Annex XII.



***The Committee may kindly review and provide the comments through BIS Portal***

**Item 7 DRAFT INDIAN STANDARDS FOR FINALIZATION**

**7.1 Revision of IS 4333 (Part 5): 1970 Methods of analysis for foodgrains: Part 5 determination of uric acid**

In the 28th meeting, the committee accepted the comments received from Dr. Deepika (all comments were editorial) on the draft revision of IS 4333 (Part 5): 1970 ‘Methods of analysis for foodgrains: Part 5 determination of uric acid’)]. The committee decided to delete the photoelectric method on the basis of concern raised by Dr. Puneet Chandra regarding use of sodium cyanide in photoelectric method. Further, Dr. Vivek Babu raised the concern regarding specification of uricase used in uricase solution and therefore committee decided to incorporate strength of uricase. Dr. Vivek Babu also informed that CFTRI uses HPLC based method for determination of uric acid. Therefore, the committee decided to incorporate HPLC method in the draft revision. The draft method shared by Dr. Vivek Babu is attached below as Annex XIII and commented as under:

“this method needs further inter lab validation and establishment of LOD & LOQ.”



Draft revision of IS 4333 (Part 5) is attached below as Annex XIV:



***The Committee may kindly review and decide.***

**7.2 Revision of IS 6151-2: 1971 ‘Storage management code Part 2 General care in handling and storage of agricultural produce’ [FAD 16 (26240)]**

As decided in the 27th meeting of FAD 16, draft revision of IS 6151-2 [FAD 16 (26240)]C was issued into wide circulation for inviting public comments for a period of 60 days. The last date of commenting is 24 September 2024. The comments received on [FAD 16 (26240)]C is attached below as Annex XV and draft revision is attached below as Annex XVI.

 

***The Committee may kindly Review & Decide***

**Item 8 INTERNATIONAL ACTIVITIES**

**8.1** BIS (India) is a ‘P’ (Participating) member in the ISO/TC 34/SC 4 Cereals and Pulses Sub-Committee and has been casting ISO ballots under the Sub-Committees with the inputs received from the FAD 16 Committee Members. BIS (India) is currently an ‘P’ (Participating) member in the ISO/TC 93 Starches (including derivatives and by-products) Sub-Committee. Work Programme of ISO/TC 34/SC 4 is embedded below as Annex XVII and Annex XVIII:

 

***The Committee may kindly Note.***

**8.2 Details of ballots under FAD 16**

List of ballots cast by BIS in ISO/TC 34/SC4 and TC 93 from 20 February 2024 till date embedded below as Annex XIX and Annex XX:

 

***The Committee may kindly Review & Note***

**Item 9 ANY OTHER BUSINESS**