**BUREAU OF INDIAN STANDARDS**

**AGENDA**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the Committee** | **No. of Meeting** | **Date** | **Time** | **Venue** |
| Agriculture and Food Processing Sectional Committee, FAD 20 | 19th | **16 June 2022**  **(Thursday)** | **1030 h** | Hybrid (Virtual + Physical)  Lal C Verman Hall  Bureau of Indian Standards, HQ, New Delhi |

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| --- | --- |
| **CHAIRMAN:**  **Dr. K Alagusundaram**  **(Chairman, FAD 20)**  Ex-DDG(Engg.),  ICAR, New Delhi | **MEMBER SECRETARY:**  **Debasish Mahalik**  **(Member Secretary, FAD 20)**  Scientist-B / Assistant Director  Food & Agriculture Department,  Bureau of Indian Standards, New Delhi |

**ITEM 0 GENERAL**

* 1. **Welcome**
  2. **Opening Remarks by the Chairman**

**ITEM 1 CONFIRMATION OF THE MINUTES OF THE EIGHTEENTH MEETING**

**1.1** The minutes of the 18th meeting of Agriculture and Food Processing Equipment Sectional Committee, FAD 20 held on 7 January 2022 were circulated vide our email dated 17 January 2022. No comments have been received on the minutes.

***The Committee may confirm the minutes as circulated.***

**ITEM 2 SCOPE, ACTIVITIES AND COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.1 SCOPE & PROGRAM OF WORK OF THE COMMITTEE**

Scope ofAgriculture and Food Processing Equipment Sectional Committee, FAD 20 is embedded below as **Annex 1**:

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***The Committee may note.***

**2.1.1** Food and Agriculture Division Council (FADC) at its 26th meeting held on 30 March 2022 approved the transfer of following Indian Standards to different Sectional Committees under FADC:

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **IS Title** | **Transferred to** |
| **a)** | 1. IS 5223: 1993 Oilseeds Milling Machinery – Oil Expellers – Test Code (*first revision*) 2. IS 5224: 1993 Oilseeds Milling Machinery – Oil Expellers Single Barrel – Specification (*second revision*) 3. IS 13794 : 1993 Oilseeds Milling Machinery – Power Ghanies Portable – Specification | Transferred to FAD 13 |
| **b)** | 1. IS 15827: 2019 Cladding Films for Greenhouse / Polyhouse – Specifications (*first revision*) 2. IS 15828: 2009 Design and Construction of Plastic Lined Farm Ponds – Code of Practice 3. IS 15830 : 2009 Surface Covered Cultivation – Plastics Mulching Laying Machine – Functional Requirements | Transferred to FAD 22 |

***The Committee may note.***

**2.2 COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.2.1** The updated composition of Agriculture and Food Processing Equipment Sectional Committee, FAD 20 is embedded below as **Annex 2**:



***The Committee may note.***

**2.2.2** As decided in the 17th meeting of FAD 20 held on 29 November 2021, following organizations were recommended for co-option (to FADC) as mentioned:

1. ICAR-Central Institute for Women in Agriculture, Bhubaneswar
2. NER-Farm Machinery Training and Testing Institute, Chiralli
3. Punjab Agricultural University, Ludhiana
4. Mahatma Phule Krishi Vidyapeeth, Rahuri.

FADC in its 26th meeting held on 30 March 2022 approved the co-option of the above mentioned members of FAD 20.

***The Committee may note.***

**2.2.3** Nominations are awaited from following organizations on FAD 20:

1. Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola.
2. M/s Gramkul Farmers Producer Company Limited, New Delhi.
3. ICAR-Central Institute for Women in Agriculture, Bhubanewar, Odisha.
4. Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri, Ahmednagar, Maharashtra.
5. Punjab Agricultural University, Ludhiana.

***The Committee may deliberate.***

**ITEM 3 FINALISATION OF DRAFT INDIAN STANDARDS**

**3.1** **Doc: FAD 20 (18585) C** **Draft Indian Standard – Electrical moisture meters – Specification: Part 1 Food grains seeds and flour [** *first revision of IS 8824 (Part 1)***] (enclosed in *Annex 3)***



As decided in the 18th meeting of FAD 20, the above draft standard was issued into wide circulation for comments for 30 days on 17 February 2022. The last date for comments was 16 March 2022. No comments have been received on the above draft.

**The committee may consider** the above draft standard and finalize the same for publication as Indian Standard.

**3.2 Doc. No. FAD 20 (15457) F Vegetable Cutting Machine**

The above draft standard was finalized for publication by the committee at its 16th meeting held on 3 June 2021. The document is under processing for sending for publication by the BIS secretariat.

***The committee may note.***

**ITEM 4 APPROVAL OF DRAFT STANDARDS FOR WIDE CIRCULATION**

**4.1 Draft revision of IS 11834: 1986 Symbols and Flow Diagram for Rice Milling (enclosed in *Annex 4)***



In the 17th meeting of FAD 20, the committee decided to send the draft revision of IS 11834 as received from Dr. R. Visvanathan into wide circulation for 30 days for seeking comments. The draft standard is under process by the BIS Secretariat for sending into wide circulation.

***The committee may note.***

**4.2 Revision of IS** **12792: 1989 Agricultural Produce Milling Machinery – Mini Rice Mill**

In the 17th meeting of FAD 20, the committee decided to send the draft revision of IS 12792 as received from Dr. Visvanathan into wide circulation for 30 days for seeking comments. Subsequently, as part of the BIS policy to prioritize review of pre-2000 standards, an Action Research Project to review IS 12792 was allocated to Sh. Souvik Sikdar, Scientist-B, BIS. The project report along with the draft revision of IS 12792 as received from Sh. Sikdar was circulated to members of FAD 20 through the standards portal on 19 April 2022 for comments by 19 May 2022. No comments have been received from members. Draft revision of IS 12792 incorporating the modifications proposed by Dr. Visvanathan and Sh. Sikdar is enclosed at **Annex 5** for consideration.



***The committee may deliberate.***

**4.3 Revision of Indian Standards on seed processing plants**

1. **IS 5718: 2000 Agricultural produce processing equipment – Seed cleaners – Test code**
2. **IS 12576: 1989 Seed processing machinery – Indented cylinder grader – Test Code**

In the 16th meeting of FAD 20, a new panel FAD 20/P 8 was constituted comprising Dr. R. Visvanathan (Convenor), Dr. S. D. Deshpande and Dr. Vinod H. Kalbande for providing the draft revision of the above two standards. The draft revision of IS 5718 and IS 12576 has been received from the panel and the same are enclosed at **Annex 6** and **Annex 7** respectively for consideration.

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***The committee may deliberate.***

1. **IS 14460: 1997 – Seed Processing Equipment–Gravity Separator**

In the 16th meeting of FAD 20, it was decided that inputs received from Dr. Vinod H. Kalbande, M/s Indosaw Industrial Products Pvt. Ltd. on the above standard would be incorporated in the standard and circulated to the committee as a Preliminary draft (P-draft). The draft revision of IS 14460 incorporating the inputs of Dr. Kalbande is enclosed at **Annex 8** for consideration.



***The committee may deliberate.***

**4.4 Revision of Indian Standards on Paddy Cleaning and Paddy & Rice Processing**

1. **IS 8427: 1989 Agricultural Produce Milling Machinery-Rubber Roll for Paddy Dehusker**
2. **IS 8440: 1977 Test code for paddy cleaners**
3. **IS 9049: 1989 Agricultural Produce Milling Machinery - Paddy Dehusker, Rubber Type – Test Code**
4. **IS 9555: 1999 Rice Polisher**
5. **IS 10048: 1999 Rice Grader**
6. **IS 10507: 1998 Paddy Separator**
7. **IS 11787: 1986 Paddy Dehusker, Rubber Roll Type**
8. **IS 12064: 1987 Code of Practice for Paddy Parboiling**
9. **IS 12396: 1988 Paddy Cleaner**
10. **IS 12411: 1988 Paddy Dehusker, Centrifugal Type**

In the 15th meeting of FAD 20 held on 5 June 2020, Panel FAD 20/P10 comprising Dr. Pitam Chandra (convenor), Dr. Nachiket Kotaliwale, Dr. S. Bhuvna and a representative from M/s Jindal Stainless Corporate Management Services Pvt. Ltd. was constituted to provide the draft revision of the above standards. The draft revisions of all the above standards have been received from the panel and are enclosed at **Annex 9** for consideration.



***The committee may deliberate.***

**4.5** **Revision of IS 12047: 1987 - Oil Seed Cookers/Kettles, Horizontal Type**

In the 16th meeting of FAD 20, it was decided to send the revised draft standard received from Dr. Visvanathan into wide circulation for 60 days. The draft revision of IS 12047 as received from Dr. Visvanathan is enclosed at **Annex 10** for consideration.

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***The committee may deliberate.***

**4.6** **Revision of Indian standards on Agricultural Produce milling machinery**

1. **IS 10520: 1989 Agricultural Produce Milling Machinery - Emery Stones for Burr Flour Mills**
2. **IS 10892: 1984 Recommendations for aperture size of sieves for seed cleaners**
3. **IS 11041: 1984 Air-Screen Seed Cleaner**
4. **IS 12833: 1989 Agricultural Produce Milling Machinery-Roller Flour Mills – Flow Diagram**
5. **IS 13793: 1993 Agricultural produce milling Machinery-Milling of pulses – Flow Diagram**

In the 16th meeting of FAD 20, it was decided to consider the inputs received from Dr. Prasoon, ICAR-IIPR, Kanpur and write to the Dr. Sandeep Mann, ICAR-CIPHET, Ludhiana for providing the wide circulation drafts considering the input received. The committee may note that, communication was made to Dr. Mann regarding the inputs received. The draft revisions of the above standards incorporating inputs of Dr. Prasoon are enclosed at **Annex 11** for consideration.



***The committee may deliberate.***

**4.7** **Revision of IS 14603: 1998 Potato Grader – Test Code**

In the 16th meeting of FAD 20, it was decided to send the comments of Dr. Visvanathan on IS 14603 to Dr. S. K. Tyagi, ICAR-CIPHET, Ludhiana and Dr. Pitam Chandra to provide the revised draft, which will be sent into wide circulation once received. The comments as received from Dr. Visvanathan are enclosed at **Annex 12** for consideration.



***The committee may deliberate.***

**4.8 Revision of Indian Standards on Maize Sheller**

1. IS 7051: 1973 Specifications for Power Maize Shellers
2. IS 7052: 1973 Test code for Power operated Maize Shellers

In the 16th meeting of FAD 20, it was decided that, the draft revision of IS 7051 and IS 7052 as received from Dr. Visvanathan into wide circulation stage. The draft revision of the above standards received from Dr. Visvanathan are enclosed at **Annex 13** for consideration.



***The committee may deliberate.***

**4.9 Doc. No. FAD 20 (17216) P Draft Indian Standard – Mini Dal Mill – Test method**

In the 16th meeting of FAD 20, it was decided to incorporate the comments received on the above draft standard and circulate the draft into wide circulation for 60 days. The draft for wide circulation stage incorporating the comments received is enclosed at **Annex 14** for consideration.



***The committee may deliberate.***

**4.10 Doc. No.** **FAD 20 (17388) P Draft Indian Standard – Seeds and Grain Processing and Storage Engineering - Terminology**

In the 16th meeting of FAD 20, it was decided that, if no comments were received on the above draft standard during the P-draft stage, the document will be sent into wide circulation stage. No comments were received on the circulated P-draft. The Doc. FAD 20 (17388) is enclosed at **Annex 15** for consideration.



***The committee may deliberate.***

**4.11 Doc. No. FAD 20 (17785) P Draft Indian Standard – Food Serving Utensils Made from Agri By-Products - Specifications**

In the 15th meeting of FAD 20, the committee constituted a panel constituting Dr. R. Visvanathan (Convener), Dr. Vinod H. Kalbande, Dr. Nachiket Kotaliwale and Sh. Pawan Kumar (member secretary) as members. The panel was advised to provide the draft on the above subject. In the 16th meeting of FAD 20, it was decided to circulate the draft received from Dr. Visvanathan as P-draft for 30 days. In the 17th meeting of FAD 20, it was decided to send the modified draft received from Dr. Nachiket into wide circulation stage. The draft received from Dr. Nachiket is enclosed at **Annex 16** for consideration. The following points may be noted for the better appraisal of the document,

1. The relevance of dimension requirements is of least important in this case due to availability of wide range of size and shape of utensils as per consumer requirements. Therefore, the inclusion of Table 3 in the document is not necessary.
2. No hygiene requirement (related to manufacturing and handling) has been included in the document.

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***The committee may deliberate.***

**4.12 Doc. No. FAD 20 (17386) C Draft Indian Standard – Sugarcane Crushers – Safety Requirements (first revision of IS 15561)**

The above draft standard was finalized by the committee for wide circulation stage in its 16th meeting and is in under processing by BIS secretariat.

***The committee may note.***

**4.13 Doc. No. FAD 20 (17385) C Draft Indian Standard – Grader — Citrus — Size Based (first revision of IS 15831)**

The above draft standard was finalized by the committee for wide circulation in its 16th meeting and is in under processing by BIS secretariat.

***The committee may note.***

**4.14 Revision of Indian standards on cotton processing**

1. **IS 15855: 2010 – Cotton Seed Delinting Machinery-Surge Bin Machine**
2. **IS 15856: 2010 – Cotton Seed Delinting Machinery-Pre-Heating Machine –Specification**

In the 16th meeting of FAD 20, the committee requested Dr. V. G. Arude, CIRCOT to provide the revised drafts of the above Indian Standards. The revised drafts are awaited.

***The committee may deliberate.***

**ITEM 5 NEW STANDARDS FOR STANDARDIZATION**

**5.1 Draft Specification for Chaff Cutters**

In the 16th meeting of FAD 20, it was decided to develop standards on Chaff cutters in two parts as under:

1. Feeding chute type Chaff cutter (Including both manual and power operated); and
2. Conveyer Type Chaff cutter

Dr. Surendra Singh, AMMA-India and Dr. K N Agarwal, CIAE, Bhopal were requested to prepare the draft standards on the above subjects. In the 17th meeting, it was decided to circulate the draft on Feeding chute type Chaff cutter as received from Dr. Surendra Singh, AMMA-India to members Further, the committee requested Dr. Surendra Singh, AMMA-India to provide the draft on Conveyer Type Chaff cutter. The draft standards on both the above subjects received from Dr. Surendra Singh, AMMA India are enclosed at **Annex 17** for consideration.

 

The committee may note that there are five Indian Standards related to Chaff Cutter in existence, which are listed below:

1. **IS 7897: 1975 Test Code for Chaff Cutter**
2. **IS 7898: 2001 Manually - Operated Chaff Cutter – Specification Second Revision**
3. **IS 11459: 1985 Specification for Power – Operated Chaff Cutter**
4. **IS 15542: 2005 Power - Operated Chaff Cutter – Safety Requirements**
5. **IS 1511: 1979 Specification for Blades for Manually – Operated Chaff Cutter Second Revision**

***The committee may deliberate.***

**5.2 Draft Indian Standard – Carrot Washer – Specification**

In the 16th meeting of FAD 20, Panel FAD 20/ P9 comprising Dr. Ravindra Naik (Convener), Dr. A. Caroline Rathina, ICAR-IIHR, Bengaluru and Dr. Ravi Gupta, HAU was constituted to formulate draft standard on Carrot Washer. In the 17th meeting, the committee decided to circulate the draft provided by Dr. Ravindra Naik. The draft standard on carrot washer has been formatted as per Indian Standard and is enclosed at **Annex 18** for consideration.

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***The committee may deliberate.***

**5.3 Draft Indian Standard – Husk Sheller for Maize**

In the 16th meeting of FAD 20, it was decided to circulate the draft received from Dr. R. Visvanathan on Husk Sheller for maize to the members. The draft as received from Dr. R. Visvanathan is enclosed at **Annex 19**. It may be noted that the draft standard is similar in content to IS 7051 and IS 7052 (*see Item 4.8 above*) and the committee may consider the relevance of formulation of standard on the subject.

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***The committee may deliberate.***

**5.4 Draft Indian Standard – Single screw Extruder – Specification**

In the 16th meeting of FAD 20, it was decided to write to Dr. Nachiket, CIPHET for nominating an expert to provide inputs for the draft standard on Single Screw Extruder. Inputs from Dr. Nachiket are awaited.

***The committee may deliberate.***

**5.5 Draft Indian Standard – Cotton Pre-Cleaner**

In the 16th meeting of FAD 20, it was decided to write to Dr. V. G. Arude, CIRCOT to provide the draft standard on Cotton pre-cleaner for circulation. In the 17th meeting, it was decided to circulate the draft obtained from Dr. V. G. Arude. The draft standard received from Mr. Arude is enclosed at **Annex 20** for consideration.



***The committee may deliberate.***

**5.6 Draft Indian Standard – Seed processing plant**

In the16th meeting of FAD 20, it was decided to write to Dr. P. Masilamani, Agriculture College and Research Institute, Tiruchirapalli for providing the draft on Seed processing plant. The communication has been made and the draft is awaited.

***The committee may deliberate.***

**5.7 Draft Indian Standard – Spiral Grader**

In the 16th meeting of FAD 20, it was decided to circulate the draft received from Dr. Nachiket on spiral grader. The draft received from Dr. Nachiket on spiral grader is enclosed in **Annex 21** for consideration.



***The committee may deliberate.***

**5.8 Mobile Agro processing Units – Safety Requirements**

In the 16th meeting of FAD 20, it was decided to constitute a panel consisting Dr. Pitam Chandra (Convenor), Dr. S. Bhuvna and Dr. Vinod Kalbande in order to develop a draft on the above subject. Further, a panel meeting was held on 23 July, 2021 and inputs were requested from the members of the panel. Inputs are awaited from the panel.

***The committee may deliberate.***

**5.9 Stainless Steel for Drier Unit, Parboiling System and Semi Parboiling Rice**

1. Stainless Steel for Drier Unit
2. Stainless Steel for Parboiling System
3. Storage Tanks for Semi-Processed Rice

In its 16th meeting of FAD 20, Panel FAD 20/P12 was constituted comprising Dr. Nachiket Kotwaliwale (convener), Dr. Pitam Chandra, Dr. R Vishwanathan, Shri Promod, Dr. Surendra Singh, representative from M/s Jindal Steel and M/s Conventry Agro to prepare draft standards on the above subjects. The panel meeting was held on 10 August 2021and the following decisions were taken:

1. To request BIS secretariat for ISO documents if available on subject related to the draft received from M/s Jindal Steels.
2. The Panel advised JM/s indal Steels to sponsor study on utility of stainless steel as material for the Drier Unit, Parboiling Unit and Semi-processed rice mill.
3. Further, panel requested ICAR-Central Institute of Post-Harvest Engineering & Technology (CIPHET) to provide their inputs on the formulation of NWIP of drafts.

The committee may note that, no ISO standards are available related to the draft provided by M/s Jindal Steel. Also, communication was made to M/s Jindal Steel and no response was received. Also, no inputs were received from ICAR-Central Institute of Post-Harvest Engineering & Technology (CIPHET) on the subject.

***The committee may deliberate.***

**5.10 Food Grain ATM**

In the 16th meeting of FAD 20, it was decided to constitute a Panel FAD 20/P13 comprising Dr. K Alagusundaram (Convener), Dr. R Visvanathan, Shri Ankit Sood and Shri Mayank Shekhar for the formulation of draft standard on the subject. The draft from the panel is awaited.

***The committee may deliberate.***

**ITEM 6 REVIEW OF INDIAN STANDARDS**

**6.1** 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:

1. The Standard may be reaffirmed in the present form.
2. The standard may be reaffirmed with minor changes by issuing of an amendment.
3. The Standard may be reaffirmed while simultaneously taking up for revision.
4. The Standard may be withdrawn.

**6.2** Under this criterion, following Indian Standards are due for review in 2022:

|  |  |  |
| --- | --- | --- |
| **Sl No.** | **IS No.** | **IS Title** |
|  | IS 11473 : 2002 | Groundnut Decorticator — Test Code (*first revision*) |
|  | IS 12833 : 1989 | Agricultural Produce Milling Machinery – Roller Flour Mills — Flow Diagram |
|  | IS 13793 : 1993 | Agricultural Produce Milling Machinery – Milling of Pulses —  Flow Diagram |

***The committee may deliberate.***

**6.3 Revision of Pre-2000 sized Indian Standards**

**6.3.1** As a policy decision in BIS, it has been decided to take up revision of Indian Standards that are pre-2000 publications on priority, so that updating of these standards is completed at the earliest. FAD 20 in its previous meetings, assigned the task of revision of these standards to various panels under FAD 20 and members of FAD 20. The status of revision of many of these standards has been indicated in the items above. For the remaining allocated standards, the status of progress of work on the review of these standards is given below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl No.** | **IS No.** | **Title** | **Status** |
| 1 | IS 1511 : 1979 | Specification for Blades for Manually - Operated Chaff Cutter Second Revision | Allocated to following panel: 1. AICRP on FIM 2. Expert from Punjab Agricultural University 3. Representative from manufacturers |
| 2 | IS 4596 : 1968 | Glossary of Terms Relating to Oil Expellers | Allocated to Dr. R Visvanathan |
| 3 | IS 7897 : 1975 | Test Code for Chaff Cutter | Allocated to Dr. Surendra Singh, AMMA |
| 4 | IS 8108 (Part 2) : 1984 | Test Code for Grain Dryers Part 2 Method of Tests for Continuous Dryers | Allocated to Shri Shivraj Singh Meena, BIS officer |
| 5 | IS 8108 (Part 3) : 1985 | Test Code for Grain Dryers Part 3 Methods of Tests for In-Silo Dryers | Allocated to Shri S. K. Singh, BIS officer |
| 6 | IS 11459 : 1985 | Specification for Power - Operated Chaff Cutter | Allocated to Dr. Surendra Singh, AMMA |
| 7 | IS 12576 : 1989 | Seed Processing Machinery - Indented Cylinder Grader - Test Code | Allocated to Dr. R Visvanathan |

***The Committee may note and deliberate.***

**ITEM 7 ANY OTHER BUSINESS**

**ITEM 8 TIME AND PLACE FOR THE NEXT MEETING**