

BUREAU OF INDIAN STANDARDS

MINUTES

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

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

ATTENDANCE SHEET – Please see [Annex A \(Page 8\)](#)

ITEM 0 GENERAL

0.1 Welcome

Smt. Suneeti Toteja, Scientist-E & Head, Food and Agriculture Department welcomed the Chairperson and members of FAD 20 to the 19th meeting of the committee. Mrs. Toteja appreciated the work done by the various panel members since the last meeting and urged for fruitful and conclusive deliberation on the issues raised in the agenda.

0.2 Opening Remarks by the Chairman

Dr. K Alagusundaram, Ex-DDG (Engineering), Indian Council of Agricultural Research, New Delhi and Chairman, Agriculture and Food Processing Equipments Sectional Committee, FAD 20 in his opening remarks extended a warm welcome to the members of the Committee to its 19th meeting. He advised the committee members to actively participate in all the sectional meeting so that the pending work can be expedited.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE EIGHTEENTH MEETING

1.1 The committee confirmed the minutes of the 18th meeting of Agriculture and Food Processing Equipment Sectional Committee, FAD 20 held on 7 January 2022 as circulated vide our email dated 17 January 2022, without any changes.

ITEM 2 SCOPE, ACTIVITIES AND COMPOSITION OF THE SECTIONAL COMMITTEE

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2.1 SCOPE & PROGRAM OF WORK OF THE COMMITTEE

2.1 The Committee noted the scope of FAD 20 as given in the item **2.1** of agenda.

2.1.1 The committee noted the information regarding the transfer of six Indian Standards to FAD 13 & FAD 22 as approved by FADC in 26th meeting as given in the item **2.1.1** of agenda.

2.2 COMPOSITION OF THE SECTIONAL COMMITTEE

2.2.1 The committee noted the updated composition of FAD 20 as given in agenda and noted that participation of the following organization is nil.

- a) CCS Haryana Agricultural University, Hisar, Haryana
- b) Essen Multipack Limited, Rajkot, Gujarat
- c) Ministry of Agriculture, Department of Agriculture, New Delhi
- d) Osaw Agro Industries Private Limited, Ambala
- e) Tamil Nadu Agricultural University (TNAU), Coimbatore

Further, the committee advised to the members, once again to give their updated contact details for proper communication.

2.2.2 The committee noted the information as given in the item **2.2.2** of agenda.

2.2.3 The committee requested BIS Secretariat to send reminder letters to those organizations seeking their interest in continuing as a member of FAD 20 and to update their nominations on the committee.

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)]

The committee examined the above draft as enclosed in Annex 3 of the agenda and noted that no comments were received on the document during wide circulation. The committee decided to send the same for publication without any modification.

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 member secretary informed the committee that while preparing the draft for publication the following was observed:

- a) Reference clause of the draft should include IS 2491 : 2013 in place of IS 14216 : 1994 as the same is more relevant.
- b) The clauses related to Hygiene requirements in the draft are mere repetitions of, IS 2491 : 2013 Food hygiene – General principles — Code of practice (third revision).

Accordingly, the draft was modified to incorporate the necessary changes and presented to the committee for deliberation (*see Annex 1*). The committee examined the document and approved the same without any change for publication.



ITEM 4 APPROVAL OF DRAFT STANDARDS FOR WIDE CIRCULATION

4.1 Draft revision of IS 11834: 1986 Symbols and Flow Diagram for Rice Milling

The committee examined the above draft as enclosed in Annex 4 of the agenda and decided to send the document for wide circulation for 60 days without any modification.

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

The committee examined the above draft as enclosed in Annex 5 of the agenda and the incorporated comments received from Dr. R. Visvanathan and Sh. Souvik Sikdar, Scientist-B, BIS on the standard and decided to send it for wide circulation for 60 days. Further, the committee decided to write to Dr. Venkatachalapathy and Director NIFTEM-T in order to receive expert opinion on the draft revision during the wide circulation stage.

4.3 Revision of Indian Standards on seed processing plants

- a) **IS 5718: 2000 Agricultural produce processing equipment – Seed cleaners – Test code**
- b) **IS 12576: 1989 Seed processing machinery – Indented cylinder grader – Test Code**

The committee deliberated on the comments received from Dr. Vinod H. Kalbande on both the above draft revisions as enclosed in Annex 6 & 7 of the agenda and decided to write again to FAD 20/P 8 for considering these comments and providing the draft revision of the above two standards, which upon receiving will be sent for wide circulation for 60 days. Further, the committee decided to nominate Dr. Sandeep Mann as a member of FAD 20/P 8 for providing their expert input regarding the revisions of the above Indian standards during wide circulation stage.

- c) **IS 14460: 1997 — Seed Processing Equipment–Gravity Separator**

The committee deliberated on the comments received from Dr. Vinod H. Kalbande on the above draft revision as enclosed in Annex 8 of the agenda and decided to write to FAD 20/P 8 for considering these comments and providing the revised draft which upon receiving will be sent for wide circulation.

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

- a) **IS 8427: 1989 Agricultural Produce Milling Machinery-Rubber Roll for Paddy Dehusker**
- b) **IS 8440: 1977 Test code for paddy cleaners**
- c) **IS 9049: 1989 Agricultural Produce Milling Machinery - Paddy Dehusker, Rubber Type – Test Code**
- d) **IS 9555: 1999 Rice Polisher**
- e) **IS 10048: 1999 Rice Grader**
- f) **IS 10507: 1998 Paddy Separator**
- g) **IS 11787: 1986 Paddy Dehusker, Rubber Roll Type**

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- h) IS 12064: 1987 Code of Practice for Paddy Parboiling**
- i) IS 12396: 1988 Paddy Cleaner**
- j) IS 12411: 1988 Paddy Dehusker, Centrifugal Type**

The committee examined the above documents as enclosed in Annex 9 of the agenda and decided to send all the documents for wide circulation for 60 days without any modification.

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

The committee after due deliberation recommended (to FADC) to transfer IS 12047: 1987 — Oil Seed Cookers/Kettles, Horizontal Type as enclosed in Annex 10 of agenda to FAD 13 as all the Indian standards related to oilseed processing have been transferred to FAD 13. (*Also see item 2.1.1*).

4.6 Revision of Indian standards on Agricultural Produce milling machinery

- a) IS 10520: 1989 Agricultural Produce Milling Machinery — Emery Stones for Burr Flour Mills**
- b) IS 10892: 1984 Recommendations for aperture size of sieves for seed cleaners**
- c) IS 11041: 1984 Air-Screen Seed Cleaner**
- d) IS 12833: 1989 Agricultural Produce Milling Machinery-Roller Flour Mills — Flow Diagram**
- e) IS 13793: 1993 Agricultural produce milling Machinery-Milling of pulses — Flow Diagram**

The committee examined all the above draft revisions as enclosed in Annex 11 of the agenda, with incorporated inputs received from Dr. Prasoon and decided to write again to Dr. Sandeep Mann to provide the revised draft for wide circulation. The committee further requested Dr. Vinod H. Kalbande and Dr. Ravindra Naik to provide their expert inputs in order to facilitate the revision of the above Indian standards during wide circulation stage. The drafts upon receiving will be sent for wide circulation for 60 days.

4.7 Revision of IS 14603: 1998 Potato Grader — Test Code

The committee examined the above document as enclosed in Annex 12 of the agenda and decided to send the document for wide circulation without any modification. Further, the committee requested Dr. Surendra Singh and Dr. Ravindra Naik, CIAE to provide their expert input on the above draft revision during the wide circulation for 60 days.

4.8 Revision of Indian Standards on Maize Sheller

- a) IS 7051: 1973 Specifications for Power Maize Shellers**
- b) IS 7052: 1973 Test code for Power operated Maize Shellers**

The committee examined the above documents as enclosed in Annex 13 of the agenda and decided to send the document for wide circulation for 60 days without any modification. Further, the committee requested Dr. Surendra Singh and Dr. Ravindra Naik, CIAE to provide their expert input on the above draft revision during the wide circulation for 60 days.

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

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The committee examined the above documents as enclosed in Annex 14 of the agenda and decided to send the document for wide circulation for 60 days without any modification.

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

The committee examined the above document as enclosed in Annex 15 of the agenda and observed that there is a need of additional terminologies pertaining to subject matter to be added in the draft. Therefore, the committee decided to write to Director, CIAE and requested Dr. K. Alagusundaram along with Dr. Vinod H. Kalbande to provide the draft incorporating necessary changes. The draft once received would be sent for wide circulation for 60 days.

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

The committee examined the above document as enclosed in Annex 16 of the agenda and decided to send the document for wide circulation for 60 days without any modification.

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

The committee noted that the above draft standard is under preparation by BIS Secretariat for issuing into wide circulation for 60 days.

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

The committee noted the information of the above draft standard is under preparation by BIS Secretariat for wide circulation for 60 days. The committee decided to write to Director, CIPHET, Ludhiana and Director, ICAR-CICR, Nagpur for providing their expert opinion on the above draft for consideration of the committee at its next meeting.

4.14 Revision of Indian standards on cotton processing

- a) **IS 15855: 2010 Cotton Seed Delinting Machinery-Surge Bin Machine**
- b) **IS 15856: 2010 Cotton Seed Delinting Machinery-Pre-Heating Machine — Specification**

The committee decided to write to Dr. V. G. Arude, CIRCOT along with Dr. Sujata Saxena and requested Dr. Vinod H. Kalbande to provide the revised drafts on the above Indian standards for consideration of the committee at its next meeting.

ITEM 5 NEW STANDARDS FOR STANDARDIZATION

5.1 Draft Specification for Chaff Cutters

The committee examined the two draft standards on Chute type and conveyer type chaff cutter as enclosed in Annex 17 of the agenda. The committee also noted that there are five existing Indian standards related to chaff cutter, as under:

- a) **IS 1511: 1979 Specification for Blades for Manually – Operated Chaff Cutter Second Revision**

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- b) IS 7897: 1975 Test Code for Chaff Cutter
- c) IS 7898: 2001 Manually – Operated Chaff Cutter – Specification Second Revision
- d) IS 11459: 1985 Specification for Power – Operated Chaff Cutter
- e) IS 15542: 2005 Power – Operated Chaff Cutter – Safety Requirements

The committee then requested Dr. Surendra Singh to re-analyze all the five existing standards along with the two new draft standards and consider developing three drafts on power operated chaff cutter, Manual Chaff cutter and Test code for Chaff Cutter. The draft standards to be received would be issued into wide circulation for 60 days for seeking comments.

5.2 Draft Indian Standard – Carrot Washer — Specification

The committee examined the above draft standard as enclosed in Annex 18 of the agenda and requested Dr. Ravindra Naik to reconsider the draft for changing scope & title of the draft standard and to provide the corrected draft, which upon receiving will be sent as p-draft (Preliminary draft) to committee members for 21 days. In case no comment is received during the period, the committee approve the draft standard to be wide circulation for 60 days for seeking comments.

5.3 Draft Indian Standard – Husk Sheller for Maize

The committee examined the drafts as enclosed in Annex 19 of the agenda and requested Dr. Surendra Singh to provide the draft on Husk Sheller of maize, which upon receiving will be sent as p-draft (Preliminary draft) to committee members for 21 days. In case no comment is received during the period, the committee approve the draft standard to be wide circulation for 60 days for seeking comments.

5.4 Draft Indian Standard – Single screw Extruder — Specification

The committee decided to write to Director, CIPHET-Ludhiana, Director, NIFTEM-Sonapat and NIFTEM-Tanjavur to provide their comments, which upon receiving will be as p-draft (Preliminary draft) to committee members for 21 days.

5.5 Draft Indian Standard – Cotton Pre-Cleaner

The committee examined the above document and decided to send the document for wide circulation for 60 days for seeking comments, without any modification.

5.6 Draft Indian Standard – Seed processing plant

The Committee decided to write mail again to Dr. P. Masilamani, TNAU c. copy to Dr. K. Alagusundaram for providing the draft on Seed processing plant.

5.7 Draft Indian Standard – Spiral Grader

The committee examined the above document as enclosed in Annex 21 the agenda and decided to circulate the draft as p-draft (Preliminary draft) to committee members for 21 days, without any modification.

5.8 Mobile Agro processing Units – Safety Requirements

The committee decided to write to Director, CIPHET-Ludhiana, Director, NIFTEM-Tanjavur and Dr. Sandhya Singh, PAU for providing draft/comments on the above subject.

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

- a) Stainless Steel for Drier Unit
- b) Stainless Steel for Parboiling System
- c) Storage Tanks for Semi-Processed Rice

The committee noted the information placed in the item 5.9 of agenda and after due deliberation decided to drop the above three new proposed subjects from FAD 20 due to lack of response and absence of contribution from the M/s Jindal Stainless Steel, the proposal of the subject.

5.10 Food Grain ATM — Specification

The committee deliberated and decided to write to FAD 20/P 13 for providing the draft standard on Food grain ATM. Further, the committee decided to write to Dr. Bhaskar in order to provide his expert input on the draft standard.

ITEM 6 REVIEW OF INDIAN STANDARDS

6.1 BIS Secretariat apprised the committee members that there is Pre-2000 Standards which need to be reviewed on priority. Further, the committee noted the allocations of Indian standards as given in item 6.3.1 of agenda. Hence, majority of these standards are already under review and the progress of revision of these standards is given at various item of the minutes.

Also, the committee decided to recommend (to FADC) to transfer IS 4596 : 1968 Glossary of Terms Relating to Oil Expellers to FAD 13 (*Also see item 4.5*) as the other IS pertaining to oil milling machinery have also been transferred to FAD 13.

6.2 The committee after due deliberation decided to allocate the remaining standards for review as under:

Sl No.	IS No.	IS Title	Allocated to
1.	IS 11473 : 2002	Groundnut Decorticator — Test Code (<i>first revision</i>)	Dr. Githe Dr. R. Visvanathan, TNAU
2.	IS 12833 : 1989	Agricultural Produce Milling Machinery – Roller Flour Mills — Flow Diagram	Dr. Sandhya Singh, PAU Dr. Mahesh Kumar, PAU
3.	IS 13793 : 1993	Agricultural Produce Milling Machinery – Milling of Pulses — Flow Diagram	ICAR-Indian Institute of Pulses Research, Kanpur. PDKV, Akola Dr. Pitam Chandra

ITEM 7 ANY OTHER BUSINESS

There being no other business, the meeting ended with the hearty vote of thanks to the chairperson and the members of the committee.

ITEM 8 TIME AND PLACE FOR THE NEXT MEETING

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After discussion among committee members, it was decided to hold the next meeting of FAD 20 in last week of August 2022 at Coimbatore, Tamil Nadu.

Annex A**ATTENDANCE FOR THE 19th MEETING OF AGRICULTURE AND FOOD PROCESSING SECTIONAL COMMITTEE FAD 20 HELD ON 16 JUNE 2022**

Sl. No.	Organization	Members
1.	Indian Council of Agricultural Research, New Delhi	Dr. K. Alagusundaram (Chairperson)
2.	Agriculture Machinery Manufacturers Association, Pune	Dr. Surendra Singh
3.	Essen Multipack Limited, Rajkot	Shri Shaildip Wagh
4.	ICAR – Central Institute of Agricultural Engineering, Bhopal	Dr. Ravindra Naik
5.	ICAR – Indian Institute of Horticultural Research, Bengaluru	Dr. S. Bhuvanewari
6.	ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana	Dr. Sandeep Mann
7.	Indian Council of Agricultural Research, New Delhi	Dr. Kanchan K Singh
8.	Indosaw Industrial Products Private Limited, Ambala Cantt.	Dr. Vinod H. Kalbande
9.	National Institute of Food Technology Entrepreneurship and Management, Sonipat	Dr. P. K. Nema
10.	Northern Region Farm Machinery Training and Testing Institute, Hisar	Dr. Mukesh Jain
11.	Expert in Personal Capacity	Dr. R. Visvanathan
12.	Expert in Personal Capacity	Shri S. D. Deshpande
13.	Expert in Personal Capacity	Shri Jix Antony
14.	Food & Agriculture Department, BIS, New Delhi	Mrs. Suneeti Toteja (Head, Scientist – E),
15.	Food & Agriculture Department, BIS, New Delhi	Shri Debasish Mahalik Scientist – B