

## **BUREAU OF INDIAN STANDARDS**

### **MINUTES**

<b>Name of the Committee</b>	<b>No. of Meeting</b>	<b>Date</b>	<b>Time</b>	<b>Venue</b>
Agricultural Systems and Managements Sectional Committee, FAD 22	15 <sup>th</sup>	<b>20 March 2024 (Wednesday)</b>	<b>02 30 h</b>	Hybrid (Virtual + Physical) Bureau of Indian Standards, HQ, New Delhi

#### **CHAIRPERSON:**

**Dr. P K Ghosh,**  
Founder Director and Vice Chancellor,  
ICAR- National Institute of Biotic Stress Management,  
Raipur

#### **MEMBER SECRETARY:**

**Debasish Mahalik**  
Scientist-B/ Assistant Director  
Food & Agriculture Department,  
Bureau of Indian Standards, New Delhi

**ATTENDANCE – Please see Annex A (Page 8)**

#### **Item 0 GENERAL**

##### **0.1 Welcome**

Shri Debasish Mahalik, Scientist-B/ Assistant Director, Food and Agriculture Department welcomed the Chairperson and members of FAD 22 to the 15<sup>th</sup> meeting of the committee. Shri Mahalik apprised the committee members regarding the various issues under consideration of the committee. Further, Shri Mahalik provided the brief report of the activities carried out under Agricultural Systems and Managements Sectional Committee, FAD 22 covering standard formulation, r & D activities, ISO liasioning and standards promotion. He also narrated the efforts made by expert members in completion of subjects undertaken for year 2023-24. Requesting for support from the committee, Shri Mahalik lauded the work done by the various members and urged for fruitful and conclusive deliberation on the issues raised in the agenda.

##### **0.2 Opening Remarks by the Chairman**

The Chairperson, Dr. P. K. Ghosh, Founder Director and Vice Chancellor, ICAR- National Institute of Biotic Stress Management, Raipur, in his opening remarks welcomed all members to the 15th meeting of Agricultural Systems and Management Sectional Committee, FAD 22 and requested all the members to extend active participation in the proceedings of the meeting. He informed about the taken up new areas in standardization and its importance in global as well as national level. He also advised the committee about more frequent meetings and preferably in physical mode. He also advised the members to express their views freely, good discussion and contribute their expertise for upgradation of standards.

## **ITEM 1 CONFIRMATION OF THE MINUTES OF THE FOURTEENTH MEETING**

**1.1** The committee noted that the minutes of the 14<sup>th</sup> meeting of Agricultural Systems and Managements Sectional Committee, FAD 22 held on 6 November 2023 were circulated vide our email dated 20 November 2023. As, no comments were received, the committee approved the minutes of 18<sup>th</sup> meeting without any further modification.

## **ITEM 2 SCOPE, ACTIVITIES & COMPOSITION OF THE SECTIONAL COMMITTEE**

### **2.1 SCOPE & ACTIVITIES OF THE COMMITTEE**

**2.1.1** The committee noted the Scope and Program of Work (POW) of Agricultural Systems and Managements Sectional Committee, FAD 22 enclosed at Annex 1 of the agenda and after due deliberation, the committee decided currently no more modification is required in the scope.

### **2.2 COMPOSITION OF THE COMMITTEE**

**2.2.2** The committee noted the received nominations from new co-opted member organizations and the updated composition of FAD 22 enclosed at Annex 2 of the agenda. Further, the committee requested member secretary, FAD 22 to send a reminder to all the following organization to submit their nomination within a period of 30 days:

Sl No.	Name of the Organization	Nomination Status
a)	CCS National Institute of Agricultural Marketing (NIAM), Jaipur	Nomination awaited
b)	ICAR - Indian Agricultural Research Institute, New Delhi	Nomination awaited
c)	Odisha University of Agriculture & Technology (OUAT), Bhubaneswar	Nomination awaited
d)	University of Agricultural Sciences, Dharwad	Nomination awaited
e)	ICAR Research Complex for Eastern Region (ICAR-RCER), Patna	Nomination awaited

The committee then decided that, failure to submit the nominations will lead to withdrawal of nomination of the organizations from the committee and will be recommended to Food and agriculture Division Council for final approval.

## **ITEM 3 FINALISATION OF ANNUAL ACTION PLAN FOR 2023-24**

**3.1** The committee noted the progress of the Annual Action Plan 2023-24 (enclosed at Annex 3 of the agenda) and appreciated the work done by members of FAD 18. As, all the actional points under Annual Action Plan for the year 2023-24 were completed, the Chairperson, FAD 18 appreciated the committee members, convenors, panel members for their dedicated efforts.

**3.2** The committee noted the information provided under 3.2 of the agenda and analyzed the draft Annual Plan for Standardizations (APS) 2024-25 proposed by member Secretary, FAD 18 enclosed at Annex 5 of the agenda. After, due deliberation the committee decided the incorporate the following modification in the proposed APS 2024-25 :

- a) Removal of subject 'Contract farming/ commercial farming' – The committee after due deliberation opined that the standards on subject contract farming/ commercial farming

requires specifications covering majorly legal and financial processes. Also, the due diligences of contract farming varies from cases to case basis depending upon type of crop, stakeholders involved, degree of legal compliances etc. therefore, considering the above,. the committee decided to drop the subject from standardization under FAD 22.

- b) Removal of subject ‘Guidelines for Agriculture 4.0, or Connected Farming’ – The committee after due deliberation, opined that the subject is very generic and it does not have any specific focus. Also, currently in India there is no or very little data available with respect to the subject. Therefore, developing a scientific standard will not be possible. Therefore, considering above, the committee decided to drop the subject from standardization under FAD 22.
- c) Removal of subject ‘The cyber-agricultural system (CAS)’ - The committee after due deliberation, opined that the subject is very generic and it does not have any specific focus. Also, currently in India there is no or very little data available with respect to the subject. Therefore, developing a scientific standard will not be possible. Therefore, considering above, the committee decided to drop the subject from standardization under FAD 22.

The updated APS for the year 2024-25 approved by the committee with necessary modifications is enclosed at **Annex 1**.



Annex 1\_APS  
2024-25\_FAD 22\_2103

**3.3** The committee noted the information provided under 3.3 of the agenda and approved the following Annual Meeting Callender for the year 2024-25 :

Year 2024-2025	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>Schedule</b>	May 2024	September 2024	-	February 2025
<b>Venue</b>	ICAR – National Institute of Biotic stress Management, Raipur	Virtual Mode		Bureau of Indian Standards, New Delhi

## **ITEM 4 NEW STANDARDS FOR STANDARDIZATION**

### **4.1 Doc. No. FAD 22 (22873) WC ‘Requirements on Farming Practices and Labelling of Naturally Produced Products - Natural Farming Production System’**

**4.1.1** The committee noted the information provided under 4.1.1., 4.1.2 and 4.1.3. After due deliberation the committee decided to temporarily halt the standardization activity regarding the above subject till further information received from Ministry of Agriculture & Farmers Welfare, New Delhi regarding approval of National Mission on Natural farming and further need for standardization of natural farming production system.

Further, the committee decided that after receipt of confirmation from Ministry regarding standardization activity on natural farming, the FAD 22/Panel III shall take up the comments/inputs

received (enclosed at Annex 5 to Annex 11 in agenda) and prepare the final draft for further circulation.

#### **4.2 Doc. No. FAD 22 (23578) WC ‘Integrated Pest Management – Requirements’**

The committee noted that, the above draft Indian Standard (enclosed at Annex 12 of the agenda) has been circulated into wide circulation on 22 February 2024 for a period of 60 days seeking comments. The last date for submission of comments is 21 April 2024. Accordingly, the committee requested the members to provide comments on the draft standard, if any.

#### **4.3 Integrated Nutrient Management – Code of Practice**

The committee noted the information provided under 4.3 of the agenda and analysed the above draft standard (enclosed at Annex 13 of the agenda). After due deliberation, the committee decided to circulate the draft standard as preliminary draft (P-Draft) for a period of 21 days seeking comments from the committee members.

#### **4.4 Integrated Management system for vermiculture**

The committee noted the information and recommendation given under 4.4. After due deliberation, the committee requested the member Secretary, FAD 22 to deliberate the subject and its scope for standardization with Dr. S D Mishra, ICAR- IARI, New Delhi. Based on the recommendation of the deliberation, the subject will be taken up in next meeting of the committee.

#### **4.5 Draft standards on Good Agricultural Practices:**

- a) **FAD 22 (02193) Requirements for Good Agricultural Practices - India GAP Fruits and Vegetable Base** (enclosed at *Annex 14*)
- b) **FAD 22 (02197) Requirements for Good Agricultural Practices - India GAP Livestock Base** (enclosed at *Annex 15*)

Considering the recommendation of Member Secretary, FAD 22, the committee appointed Dr. Manish Pande, Director & Head PAD Division, Quality Council of India, New Delhi as convener of FAD 22/Panel I : Panel on Good Agricultural Practices.

The committee after due deliberation decided to send the two draft standards (FAD 22(02193) Requirements for Good Agricultural Practices - India GAP Fruits and Vegetable Base and FAD 22(02197) Requirements for Good Agricultural Practices - India GAP Livestock Base) to FAD 22/Panel I : Panel on Good Agricultural Practices (enclosed at Annex 14 and Annex 15) to FAD 22/Panel I : Panel on Good Agricultural Practices for further action.

Further, the committee requested Dr. Manish Pande, Director & Head PAD Division, Quality Council of India, New Delhi to convene an early meeting of the panel to take up the necessary deliberations related to above subjects.

#### **4.6 Subjects identified under Standards National Action Plan (SNAP)**

The committee noted the information provided under 4.6 of the agenda and the following decisions were taken :

<i>Sl No.</i>	<i>Subject for Standardisation</i>	<i>Current Status of subject under standardisation</i>
<i>a)</i>	Guidelines for contract farming and commercial farming (Medium priority)	See 3.2
<i>b)</i>	Guidelines for Hydroponic farming (High priority)	The committee noted that, the above draft Indian Standard (enclosed at Annex 16 of the agenda) has been circulated into wide circulation on 22 February 2024 for a period of 60 days seeking comments. The last date for submission of comments is 21 April 2024. Accordingly, the committee requested the members to provide comments on the draft standard, if any.

#### **4.7 Subjects recommended by NCPAH, New Delhi**

The committee noted the information provided under 4.7 of the agenda and the following decisions were taken:

<i>Sl No.</i>	<i>Subject for standardization</i>	<i>Current Status</i>
<i>1</i>	Solar greenhouse farming system	The committee requested FAD 22/Panel II to take up the subject on priority and prepare the draft standard on the subject.
<i>2</i>	FAD 22 (23576) Artificial Lighting System for Protected Cultivation – Requirements	The committee noted that, the above draft Indian Standard (enclosed at Annex 17 of the agenda) has been circulated into wide circulation on 22 February 2024 for a period of 60 days seeking comments. The last date for submission of comments is 21 April 2024. Accordingly, the committee requested the members to provide comments on the draft standard, if any.
<i>3</i>	Aeroponic farming system	<p>The committee noted the information as well as the recommendation provided in the agenda. The committee also noted that the aeroponic definitions have been covered under draft standard on hydroponic production system. After due deliberation, the committee decided to incorporate the additional requirements of aeroponics (if any) under the draft standard on hydroponic production system.</p> <p>Further, the committee decided that considering above, there is no need for development of additional standard on aeroponic production system.</p>

## **ITEM 5 REVIEW OF INDIAN STANDARDS**

**5.1** The committee noted that, no Indian Standards are due for review for year 2023-2024 as per the criteria mentioned at 5.1 of the agenda.

## 5.2 Review of Pre- 2000 Indian Standards

After due deliberation the committee took the following decisions :

<i>Sl No.</i>	<i>IS No.</i>	<i>Title</i>	<i>Current Status</i>
<i>a)</i>	IS 14461:1997	Surface Covered Cultivation Structures- Glossary of Terms  Doc No. FAD 22 (23618) WC ‘Surface Covered Cultivation Structures — Glossary of Terms (first revision of IS 14461)’	The committee analyzed the above draft revision enclosed at Annex 18 of the agenda. Considering no comments have been received during the wide circulation stage of the draft, the committee decided to send the draft revision into publication.
<i>b)</i>	IS 14462:1997	Recommendation for layout, design and construction of greenhouse structures	The committee noted the information regarding the R&D project FAD 0062 titled as ‘Study on Structural Stability and Design Specifications of Greenhouse Structures for different wind zones of India’ and its current status as given in the agenda.
<i>c)</i>	IS 14485:1998	Recommendations for heating, ventilation and cooling of green houses	
<i>d)</i>	IS 15175: 2002	Surface Covered Cultivation Structures- Establishment and Operation of Mist Chamber-Guidelines	The committee noted the information provided in the agenda and requested FAD 22/Panel II to develop the ToR on priority.
<i>e)</i>	IS 15177:2002	Surface Covered Cultivation- Plastic Mulching- Code of Practices	The committee noted the information and recommendation given in the agenda. During deliberation, Shri Shaildip Wagh, Essen Multipack Limited, Rajkot informed the committee that no changes are required in terms of content of the standard.  Considering the above, the committee decided to abstain the review of this standard for year 2024-25. Further, upon request received from industry, the review may be taken up suitably.

## 5.3 Draft revision of IS 15930 (part 1) : 2011 Requirements for Good Agricultural Practices- India Gap Part 1 Crop Base

The committee after due deliberation decided to send the proceedings of 1st meeting of the panel comprising Dr. Dinesh Kumar, IIHR (convener) and Dr. Sardana, NCIPM, Ms Reeba Abraham, APEDA and project director IIFSR, Modipuram to FAD 22/Panel I : Panel on Good Agricultural Practices for further action.

Further, the committee requested Dr. Manish Pande, Director & Head PAD Division, Quality Council of India, New Delhi to convene an early meeting of the panel to take up the review of above standard.

## ITEM 6 INTERNATIONAL ACTIVITIES

## 6.1 Participation in 1<sup>st</sup> plenary meeting of ISO/TC 347 Data-driven agrifood systems

The committee after due deliberation nominated the following delegation to participate in the 1<sup>st</sup> plenary meeting of ISO/ TC 347 ‘Data-driven agrifood systems’ scheduled to be held on 10 April 2024 through virtual mode:

- a) Dr. P. K. Ghosh, Founder Director and Vice Chancellor- ICAR-National Institute of Biotic Stress Management, Raipur (*Chairperson, FAD 22*)
- b) Shri Anand Zambre, Executive Director, NCPAH, New Delhi
- c) Dr. K V Ramana Rao, Principal Scientist, ICAR - Central Institute of Agricultural Engineering, Bhopal
- d) Dr. Anup Das, Director, ICAR Research Complex For Eastern Region, Patna
- e) Shri Rohit Lall, Joint Director, NCPAH, New Delhi
- f) Shri Debasish Mahalik, Scientist-B/ Assistant Director, Bureau of Indian Standards, New Delhi (*Member Secretary FAD 22*)

## ITEM 7 ANY OTHER BUSINESS

The committee was informed by Member Secretary, FAD 22 regarding 2 new work item proposals (NWIPs) received through standards portal. After due deliberation, the following decisions were taken with respect to each NWIPs:

Sl No.	Title of NWIP	Decision Taken	Justification
1	Guidelines for Dairy farming practices for family farmers	Accepted to be taken up for standardization	The committee after due deliberation decided to accept the subject for standardization. The committee was of the view that a complete guideline covering all aspects of dairy farming will help the small and medium dairy farmers to improve their existing dairy farming system. Also, considering the national focus on natural farming, animal husbandry and integrated farming systems, this standard is going to be very helpful for different stakeholders.
2	Standardizing farming and agricultural practices of India	Rejected	The proposal is not specific and covers a wide area for standardization. There are existing standards and many are under development which covers aspects of farming and agricultural practices such as Good agricultural practices, organic farming, natural farming, integrated pest management, integrated nutrient management, precision farming technologies etc.

## ITEM 8 TIME AND PLACE FOR THE NEXT MEETING

The committee decided to hold its next meeting at ICAR – National Institute of Biotic stress Management, Raipur in the month of May 2024. The exact date of the meeting will be decided after consultation with Chairperson, FAD 22.

**ANNEX A**  
**ATTENDANCE**

**AGRICULTURAL SYSTEMS AND MANAGERMENTS SECTIONAL COMMITTEE, FAD 22**

**Date:** 20 March 2024

**Venue:** BIS HQ, New Delhi

Sl. No.	Organizations	Members
1.	ICAR - National Institute of Biotic Stress Management, Raipur	Dr. P. K. Ghosh ( <i>Chairperson</i> )
2.	Anand Agricultural University, Anand	Dr. R. R. Gajera Dr. Navneet Kumar
3.	BAIF Development Research Foundation, Mumbai	Dr. Vitthal Kauthale
4.	Consumer Voice, New delhi	Dr. Rajiv Jha Shri H. Wadhwa
5.	Directorate of Marketing and Inspection, Faridabad	Shri Rahul Saini
6.	Directorate of Plant Protection Quarantine and Storage, Faridabad	Ms. Sunita Pandey
7.	G B Pant University of Agriculture and Technology, Pantnagar	Dr. A. S. Jeena
8.	ICAR - Central Institute of Agricultural Engineering, Bhopal	Dr. Kondapally V. Ramanarao Dr. Ranjay Kumar Singh
9.	ICAR - Indian Institute of Horticultural Research, Bengaluru	Dr. B. L. Manjunath, Dr. M. Senthil Kumar
10.	ICAR - Indian Veterinary Research Institute, Izzatnagar	Dr. A. K. Verma,
11.	ICAR-Central Avian Research Centre, Bareilly	Dr. Ashok Kumar Tiwari Dr. Sandeep Saran
12.	Indian Institute of Farming System Research, Jamalullapur	Dr. Meraj Alam Ansari
13.	Jain Irrigation Systems Limited, Jalgaon	Shri D. N. Kulkarni
14.	National Centre for Integrated Pest Management, New Delhi	Dr. M. Narayana Bhat
15.	National Centre of Organic Natural Farming, Ghaziabad	Dr. Gagnesh Sharma
16.	National Dairy Research Institute, Karnal	Dr. Anurag Saxena
17.	Punjab Agricultural University, Ludhiana	Dr. Mahesh Kumar Narang
18.	Quality Council of India, New Delhi	Dr. Manish Pande
19.	National Committee on Precision Agriculture and Horticulture (NCPAH), New Delhi	Shri Anand Zambre Shri Rohit Lall
20.	Essen Multipack Limited, Gujarat	Shri Shaildip Wagh
21.	Vasundhara Agri Horti Producer Company Limited, Pune	Shri Surendra Verdia
22.	National Institute of Agricultural Extension Management (MANAGE), Hyderabad	Dr. P. Kanaka Durga
23.	Bureau of Indian Standards, New Delhi	Mr. Debasish Mahalik, ( <i>Member secretary</i> )



