

**BUREAU OF INDIAN STANDARDS****AGENDA**

<b>Name of the Committee</b>	<b>No. of Meeting</b>	<b>Date</b>	<b>Time</b>	<b>Venue</b>
<b>Slaughter house and Meat Industry Sectional Committee, FAD 18</b>	<b>22<sup>nd</sup></b>	<b>29 November 2024 (Friday)</b>	<b>10 00 h</b>	<b>Hybrid Mode CSIR–Central Food Technological Research Institute (CFTRI), Mysore</b>

**CHAIRPERSON:**

**Dr. S B Barbuddhe**  
Director,  
ICAR-National Meat Research Institute,  
Hyderabad

**MEMBER SECRETARY:**

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

**ITEM 0 GENERAL**

- 0.1 Welcome**
- 0.2 Opening Remarks by the Chairman**

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

The minutes of the 21<sup>st</sup> meeting of Slaughter house and Meat Industry Sectional Committee, FAD 18 held on 29 August 2024 through Hybrid mode at ICAR- National research Center on Mithun, Dimapur Nagaland were circulated vide standards portal dated 10 September 2024. No comments were received.

*The Committee may confirm the minutes as circulated.*

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

### 2.1 SCOPE & ACTIVITIES OF THE COMMITTEE

**2.1.1** The existing scope of FAD 18 approved by Food and Agriculture Division Council at its 27<sup>th</sup> meeting as follows:

- a) Equipment, materials used in slaughterhouse and slaughterhouse layouts, flow sheet categorization
- b) Meat, meat products, poultry, poultry products and other by-products from abattoir; codes for ante-mortem and post-mortem examination; meat stalls
- c) Physical, chemical and microbiological methods of test
- d) waste management of slaughter house and meat industry

*The Committee may note.*

**2.1.2** Program of Work (POW) of Slaughter house and Meat Industry Sectional Committee, FAD 18 are enclosed at **Annex 1**.



Annex 1\_PoW\_22nd  
TC\_FAD 18.pdf

*The Committee may note.*

### 2.2 COMPOSITION OF THE COMMITTEE

**2.2.1** In its 21<sup>st</sup> meeting of FAD 18, the committee noted the absence of nominations from the following organizations and decided to send a reminder to following organizations:

- a) West Bengal Livestock Development Corporation Limited, Kolkata, West Bengal (A Govt. of West Bengal Undertaking)
- b) Meat Products of India Ltd., Ernakulam, Kerala
- c) Broiler Co-Ordination Committee, Tamil Nadu

Further, the committee decided that in case the nomination is not received by end of November 2024, the nomination shall be recommended to Food and Agriculture Division Council for withdrawal.

Accordingly, nomination request has been sent to the above organization via E-mail and subsequent reminder has been sent. However, the nomination is yet to receive from the organizations.

Considering, the lack of nomination and decision taken in the previous meeting, the committee may consider withdrawal of the nomination of the above organizations from FAD 18.

*The Committee may deliberate and decide.*

**2.2.3** As per the directive issued by Director General, BIS, an absence of a member organization from 2 consecutive meeting will lead to withdrawal of the nomination of organization from technical committee and it need to be followed strictly without any exception. Considering the above, the composition of the committee along with the attendance in the last 2 committee meeting is enclosed at **Annex 2** for consideration.



Annex 2\_Composition  
Analysis\_22nd TC\_FAD

*The Committee may deliberate and decide.*

**2.2.4** The committee in its 21<sup>st</sup> meeting noted the Action Taken Report (ATR) of all panels and after due deliberation, the committee approved the following timelines of the working group as tabulated below :

<i>Working groups of FAD 18</i>	<i>Approved Timeline in 21<sup>st</sup> meeting</i>	<i>Decision taken</i>
FAD 18/ WG I Working group on Slaughter House Management System	3 Months (December 2024)	The committee requested the working groups to submit the draft standard by end of December, 2024 which upon receipt will be circulated a preliminary draft (P-Draft) for a period of 30 days seeking comments from committee members.
FAD 18/ WG II Working group on Poultry Slaughterhouse Design and Operation	3 Months (December 2024)	

*The Committee may note and deliberate.*

**ITEM 3 ANNUAL ACTION PLAN AND ANNUAL MEETING CALNDER**

**3.1** The current status of the progress in Annual Action Plan for the year 2024-25 is enclosed at **Annex 3** for consideration.



Annex 3\_APS  
2024-25\_22nd TC\_FAC

*The Committee may note and deliberate.*

3.2 The Annual Meeting Callender for the year 2024-25 as approved by the committee is as follows:

Year 2024-2025	Quarter 1	Quarter 2	Quarter 3	Quarter 4
<b>Schedule</b>	May 2024	August 2024	November 2024	February 2025
<b>Venue</b>	Tamil Nadu Veterinary and Animal Sciences University, Chennai	ICAR-National Research Centre on Mithun, Nagaland	CSIR - Central Food Technological Research Institute, Mysore	ICAR - Indian Veterinary Research Institute, Izatnagar

*The Committee may note.*

#### **ITEM 4 NEW STANDARDS FOR STANDARDISATION**

##### **4.1 Doc. No. FAD 18 (23955) P ‘Rotary Animal Restrainer – Specification’**

In its 21<sup>st</sup> meeting of FAD 18, considering the inputs received from experts during the meeting, after due deliberation the committee decided to incorporate the following modifications in the above draft standard:

- a) The word ‘ritual slaughter’ or any reference to any kind of ritual slaughter shall be removed from the foreword of the draft.
- b) Clause 5 ‘OPERATION AND MAINTENANCE REQUIREMENTS’ shall be shifted to the Annexures, where suitable as clause 5 is for guidance and not the main body of the standard.
- c) The FAD 18/ Panel IV to review the above draft standard (enclosed at Annex 4 of the agenda) considering the above recommendations and submit the final draft to Member Secretary, FAD 18 within a period of 14 days. Upon receipt of the draft standard, the draft will be sent into wide circulation for a period of 60 days seeking comments.

The revised draft is awaited from the FAD 18/Panel IV.

*The Committee may note and deliberate.*

##### **4.2 Doc. No. FAD 18 (24818) WC Terminology of Meat Products and Meat Animals (Part 2) : Other Than Poultry**

In its 21<sup>st</sup> meeting of FAD 18, it was informed by Dr. P K mandal, RIVER, Pondicherry that there is a need to review the draft standard again as the draft lacks a lot of important definitions which should be included. Considering the above, the committee decided to give 1 month time period to Dr. Narendra Babu, TANUVAS, Chennai; Dr. S Ezhivelan, TANUVAS, Chennai; Dr. P K mandal, RIVER, Pondicherry for collection of all the related definitions and prepare the final draft. Further, the committee decided to circulate the final draft among the committee members for a period of 21 days seeking comments.

In case no comments are received during the 21 days period, the above draft will be sent into publication after due approval of the committee. However, if any comments are received during wide circulation stage, then the comments will be deliberated upon by FAD 18 in its next meeting.

The modified draft is awaited.

*The Committee may note and deliberate.*

#### **4.3 Doc. No. FAD 18 (25007) P ‘Requirements for Transportation of Food Animal Carcasses from Abattoirs to Processing Distribution Centers–Code of Practice’**

In its 21<sup>st</sup> meeting of FAD 18, the committee decided to circulate the above draft among the committee members for the period of 7 days for seeking inputs/comments. Further the committee decided to send the comments received during the circulation period along with comments received during the circulation of P-draft to FAD 18/Panel I : Code of Practices related to Slaughter House and Meat Industry and requested the panel to review the comments and submit the final draft to Member Secretary, FAD 18 within a period of 30 days. Upon receipt of the draft standard, the draft will be sent into wide circulation for a period of 60 days seeking comments with necessary approval of Chairperson, FAD 18.

The modified draft (comments suitably incorporated) received from Dr. B M Naveena, Convener, FAD 18/ Panel I is enclosed at **Annex 4** for consideration of the committee for sending into wide circulation.



Annex 4\_FAD 18  
(25007)\_22nd TC\_FAD

*The Committee may deliberate and decide.*

#### **4.4 Doc. No. FAD 18 (25462) P ‘Slaughterhouse Waste Management - Code of Practice’**

In its 21<sup>st</sup> meeting of FAD 18, the committee noted the information provided under the agenda and decided to give an extension of 14 days timeline to Dr. M. Muthukumar, National Research Center

on Meat, Hyderabad and Dr. Vasudevan V. N. Kerala Veterinary and Animal Sciences University, Thrissur along with other members for providing inputs on the draft standard.

Upon receipt of comments, the committee further requested Dr. Girish Patil, Convener, FAD 18/ Panel VI to convene a meeting of the panel to finalize the updated draft standard for further circulation.

The comments received from Dr. M. Muthukumar, National Research Center on Meat, Hyderabad has been sent to Dr. Girish Patil, Convener, FAD 18/ Panel VI for consideration.

The updated draft from the panel is awaited.

*The Committee may deliberate and decide.*

## ITEM 5 REVIEW OF INDIAN STANDARDS

5.1 In its 21<sup>st</sup> meeting of FAD 18, the committee noted the information provided in the agenda and took decisions against the following Indian Standards that are due for review for year 2024 – 2025. The decision taken along with the current status is mentioned as follows:

SI No.	IS Number	IS Title	Decision taken in 21 <sup>st</sup> meeting and current status
a)	IS 1982 : 2015 Reviewed In : 2020	Ante - Mortem and Post - Mortem inspection of meat animals - Code of practice ( <i>second revision</i> )	The committee noted that the Action research project has been allocated to Shri Anurag, Scientist-C, BIS. Further, the committee requested Dr. B M Naveena, Convener, FAD 18/ Panel I to take up the review of the standard under FAD 18/ Panel I and provide the support to Shri Anurag for Action Research Project.  The ARP report is awaited.
b)	IS 5558 : 1970 Reviewed In : 2020	Specification for chicken essence	See 5.3.
c)	IS 5960 (Part 11) : 2013 Reviewed In : 2020	Meat and meat products - Methods of test: Part 11 determination of glucono - Delta - Lactone content ( <i>first revision</i> )	The committee noted that, the action research project has been allocated to Neha Kumari, Scientist-D, BIS.  The ARP report is awaited.
d)	IS 8895 : 2015 Reviewed In : 2020	Handling, Storage and Transport of Slaughterhouse By-Products — Guidelines ( <i>first revision</i> )	The committee noted that the Action research project has been allocated to Shri Anurag, Scientist-C, BIS. Further, the committee requested Dr.

		B M Naveena, Convener, FAD 18/ Panel I to take up the review of the standard under FAD 18/ Panel I and provide the support to Shri Anurag for Action Research Project.  The ARP report is awaited.
e)	IS 15937 : 2011/ ISO 13493:2011 Reviewed In : 2020	Meat and meat products - Determination of chloramphenicol content - Method using liquid chromatography  The committee noted the information and decided to circulate again the copy of ISO 13493: 2021 among committee members for a period of 14 days seeking comments regarding its adoption.  The committee further decided to adopt the ISO standard upon non receipt of comments within the allocated timeframe and send for wide circulation for a period of 30 days.  The committee may consider adoption of the standard as no inputs have been received.

*The Committee may deliberate and decide.*

### 5.3 Review of Pre- 2000 Indian Standards

The committee noted the information provided under 5.3 of the agenda and the following decisions were taken:

<i>(a) Product Specification (Food products)</i>			
<i>Sl. No.</i>	<i>IS</i>	<i>Status as of 21<sup>st</sup> meeting</i>	<i>Decision taken in 22<sup>nd</sup> meeting</i>
1.	IS 5558 : 1970 Specification for chicken essence	The committee decided to send the draft revision of IS 5558 : 1970 'Specification for chicken essence' into wide circulation for a period of 60 days seeking comments.	While preparation of wide circulation document, it was felt that some points mentioned in the draft requires more clarifications, considering the same, the Member Secretary has sent the document back to Dr. Ashim K Biswas, Convenor. FAD 18/ Panel III for providing the necessary inputs.
<i>(b) Method of Test</i>			
1.	IS 13401 : 1992 Meat and meat products Determination of	The committee noted the information and decided to drop FAD 18 (24826) WC.	The document has been dropped from BIS standards portal.

	thiobarbituric acid value in meat - Test method	Further, the committee decided to circulate the final report of the Action research project upon its completion among the committee members.	
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*The Committee may deliberate and decide.*

## ITEM 6 INTERNATIONAL ACTIVITIES

### 6.1 Status of ISO Ballots under ISO/TC 34/SC 6

The status of the ISO ballots since 21<sup>st</sup> meeting of FAD 18 is tabulated as follows:

Type	Reference	Vote	Status	End date	English title
DIS	ISO/DIS 17645	Voted	Open	2024-11-25	Dry-cured ham — Specification
DIS	ISO/DIS 17646	Voted	Open	2024-11-25	Rapid detection of moisture content in fresh meat — Low-field NMR method

*The Committee may note.*

## ITEM 7 MAPPING OF EQUIPMENT WITH INDIAN STANDARDS

In its 21<sup>st</sup> meeting of FAD 18, the committee noted the information provided in the agenda and requested the FAD 18/ Panel IV to review the document prior to next meeting of the committee.

*The Committee may note and deliberate.*





## ITEM 8 RESEARCH PROJECTS TO BE TAKEN UP FOR INCLUSION OF EMPIRICAL DATA AND INSIGHTS

### 8.1 Review of Research projects allotted on 1<sup>st</sup> Phase

The status of the work done and review of the allocated project is given as follows:

Sl No.	R&D project Details	Allotted to	Date of completion of the project as per guideline	Review date	Report and UC receipt status



a)	Development of protein biomarker-based test method for authentication of cold-slaughtered chicken in fresh and cooked meat.	Dr. B M Naveena	15 January 2025	8 October 2024	Received and enclosed at <b>Annex 5</b> for consideration.  Annex 5_Progress Report FAD0007_22nc
b)	Study on requirements and operational aspects of small-scale slaughterhouses for hygienic meat production	Dr. M. Muthukumar	15 January 2025	8 October 2024	Received and enclosed at <b>Annex 6</b> for consideration.  Annex 6_Progress_Report_FA
c)	Development of lateral flow immunoassay integrated smartphone device-based method for authentication. test in-situ meat	Dr. B M Naveena	15 January 2025	8 October 2024	Received and enclosed at <b>Annex 7</b> for consideration.  Annex 7_Progress Report FAD0008_22nc
d)	Study on Shelf-life assessment of shell eggs.	Dr. Vishnuraj M. R	11 January 2025	8 October 2024	Received and enclosed at <b>Annex 8</b> for consideration.  Annex 8_BIS Egg UC Progress Report_22nc
e)	Development of smart sensor probe-based method for rapid detection of freshness of dressed chicken.	Dr. Suman Talukdar	15 January 2025	8 October 2024	Yet to received.

The committee may analyze the report and approve the same for further action.

*The Committee may note and deliberate.*

## 8.2 Life Cycle Approach of Meat Industry

Mr. Rajesh, M/s Licious (Delightful Gourmet Pvt Ltd), Bengaluru requested to committee to consider the sustainability aspects of the meat industry for standardization. He further proposed to take up developing guidelines for Life Cycle Approach for Meat Industry. Considering the above,

the committee requested Member Secretary, FAD 18 to identify if any ISO standards are already available in this subject and place it in the next meeting of the committee for consideration.

**Proposal of Member Secretary:**

In order to address the sustainability concerns in the Meat Industry, a working group titled as ‘FAD 22/ WG III – Working group on Sustainability Mapping of Meat Industry’. The working group shall consider the ‘APPROACH TO ADDRESS SUSTAINABILITY IN STANDARDS’ issued by BIS (*enclosed at Annex 9*) and prepare a compressive document in the form of code of practice addressing sustainability issue in the meat industry. The committee may also identify and designate Convenor of the working group.



Annex 9\_Approach  
for addressing sustain

*The Committee may deliberate and decide.*

**8.3 Decision support system for ante-mortem and post-mortem inspection in slaughterhouse**

In its 21<sup>st</sup> meeting of FAD 18, Dr. S B Barbuddhe, Chairperson, FAD 18 requested the committee members to analyze whether standardization is possible on ‘Decision support system for ante-mortem and post-mortem inspection in slaughterhouse’. Further, he requested the committee members to present their findings in the next meeting of the committee for consideration.

Accordingly, in order do further secondary research in this area, Member Secretary, FAD 18 has requested to concerned department for an Intern for working specifically on this subject and preparing a pre-standardization report in this area.

*The Committee may note and deliberate.*

**ITEM 9      ANY OTHER BUSINESS**

**ITEM 10     TIME AND PLACE FOR THE NEXT MEETING**

