**BUREAU OF INDIAN STANDARDS**

**MINUTES**

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

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| --- | --- |
| **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 |

**ATTENDANCE SHEET – Please see Annex A (Page 11)**

**ITEM 0 GENERAL**

* 1. **Welcome**

Shri Debasish Mahalik, Scientist-C/ Deputy Director, Food and Agriculture Department welcomed the Chairperson and members of FAD 18 to the 22nd meeting of the committee. Shri Mahalik apprised the committee members regarding the various issues under consideration of the committee. 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.

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

Dr. S. B. Barbuddhe, Director, ICAR-National Meat Research Institute, Hyderabad and Chairperson, Slaughter house and Meat Industry Sectional Committee, FAD 18 in his opening remark extended a warm welcome to all the members to the 22nd meeting of the Committee. He appreciated the contribution of the members under FAD 18. Dr. Barbuddhe advised the committee members to actively participate in all the sectional committee meetings and panel meetings so that the pending work can be expedited.

**ITEM 1 CONFIRMATION OF THE MINUTES OF THE TWENTY FIRST MEETING**

The committee noted that the minutes of the 21st 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. As, no comments were received, the committee approved the minutes of 21st 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 updated scope of FAD 18 mentioned under ***2.1.1*** and after due deliberation, the committee decided currently no more modification is required in the scope.

**2.1.2** The committee noted theProgram of Work (POW) ofSlaughter house and Meat Industry Sectional Committee, FAD 18 enclosed at ***Annex 1*** of the agenda.

**2.2 COMPOSITION OF THE COMMITTEE**

**2.2.1** The committee noted the information provided under 2.2.1 of the agenda and after due deliberation decided to withdraw the membership of following organizations due to lack of response regarding nomination of experts:

1. West Bengal Livestock Development Corporation Limited, Kolkata, West Bengal (A Govt. of West Bengal Undertaking)
2. Broiler Co-Ordination Committee, Tamil Nadu

Further, Dr. Vasudevan V. N., Kerala Veterinary and Animal Sciences University, Thrissur informed the committee that the nomination process of Meat Products of India Ltd., Ernakulam, Kerala is ongoing and the nomination of the organization will be received within a few days. Committee noted the statement of Dr. Vasudevan V. N. and decided to retain the membership of Meat Products of India Ltd., Ernakulam.

**2.2.3** The committee noted the composition of the committee along with the attendance in the last 2 committee meeting is enclosed at ***Annex 2*** of the agenda and decided to deliberate on the withdrawal of nomination of the member organizations having absence in 2 consecutive meeting or attendance less than 50%.

**2.2.4** The committee noted the information provided under 2.2.4 of the agenda and the following decisions were made:

|  |  |  |  |
| --- | --- | --- | --- |
| ***Working groups of FAD 18*** | ***Approved Timeline in 21st meeting*** | ***Decision taken in 21st meeting*** | ***Decision taken in 22nd meeting*** |
| 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. | The committee noted the information mentioned under 2.1.1 and requested the working groups to submit the draft standard by 31 December 2024. |
| FAD 18/ WG II  Working group on Poultry Slaughterhouse Design and Operation | 3 Months  (December 2024) |

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

**3.1** The committee noted the current status of the progress in Annual Action Plan for the year 2024-25 as enclosed at ***Annex 3*** of the agenda.

**3.2** The committee noted the Annual Meeting Calendar for the year 2024-25 as approved by the committee as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year 2024-2025** | **Quarter 1** | **Quarter 2** | **Quarter 3** | **Quarter 4** |
| **Schedule** | May 2024 | 29 August 2024 | 29 November 2024 | 19 February 2025 |
| **Venue** | 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 |

**ITEM 4 NEW STANDARDS FOR STANDARDISATION**

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

The committee noted the information provided by Member Secretary, FAD 18 that the revised draft has been received from FAD 18/ Panel IV. The Committee analyzed the draft and concluded that all the suggested modifications have been suitably incorporated in the draft standard. Further, the committee decided to send the above draft standard (enclosed at ***Annex 1***) into wide circulation for a period of 60 days seeking comments. The committee further decided that, in case no comments are received during wide circulation stage, the above draft will be sent into publication after due approval of the committee.



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

The committee noted the information provided by Member Secretary, FAD 18 that the revised draft has been received from Dr. P K Mandal, RIVER, Pondicherry and subsequently from Dr. S Ezhilvelan, TANUVAS, Chennai. (enclosed at ***Annex 2***) The committee analyzed the draft and after due deliberation, committee decided to circulate the draft received from the committee members for a period of 21 days seeking comments among committee members. 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 Chairperson of FAD 18 and concerned experts before sending in to publication.



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

The committee noted the information provided under 4.3 of the agenda. After due deliberation, the committee decided to send the above draft standard (enclosed at ***Annex 3***) into wide circulation for a period of 60 days seeking comments.



The committee further decided that, in case no comments are received during wide circulation stage, 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/Panel I : Code of Practices related to Slaughter House and Meat Industry before sending into publication.

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

The committee noted the information provided under 4.4 of the agenda (comments received from Dr. M. Muthukumar, ICAR-National Meat Research Institute, Hyderabad have been sent to Dr. Girish Patil, Convener, FAD 18/ Panel VI for consideration). After due deliberation, the committee approved the comments are as follow:

|  |  |  |  |
| --- | --- | --- | --- |
| Sl. No | Clause/ Sub Clause/ Para/ table/ fig.no. commented | Existing content of IS/ Doc. | Decision of the committee in 22nd meeting of FAD 18 |
|  | 3.5 | Process of converting animal fat, trimmings, inedible offal, condemned meat and bones into usable products. | Process of converting animal fat, trimmings, **offal**, condemned meat and bones into usable products. |
|  | 4.1 | All waste generated from slaughterhouses shall be treated before discharge or converted to manure by following Best Available Technologies (BAT). | All waste generated from slaughterhouses shall be treated before **disposal** or converted to manure by following Best Available Technologies (BAT). |
|  | 5.2.1.1 | Blood shall be collected separately and treated in a blood meal plant or rendering facility or used for edible purpose | A note should be added that ‘when the quantum of production is less and not utilized for human consumption, then manure production/land filling can be done by small scale processors.’ |
|  | 6 | TABLE 1 INDIAN STANDARD FOR SAMPLING AND ANALYSIS | TABLE **2** INDIAN STANDARD FOR SAMPLING AND ANALYSIS |

Further, the committee decided to send the above draft standard with the above approved modifications into wide circulation for a period of 60 days seeking comments. The committee further decided that, in case no comments are received during wide circulation stage, 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/Panel VI before sending into publication.

**ITEM 5 REVIEW OF INDIAN STANDARDS**

**5.1** In its 22nd 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 is mentioned as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl No. | IS Number | IS Title | *Decision taken in 21st meeting and current status* | *Decision taken in 22nd meeting* |
|  | IS 1982 : 2015  Reviewed In : 2020 | Ante - Mortem and Post - Mortem inspection of meat animals - Code of practice (*second revision*) | 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. | The committee noted the information and requested the Member Secretary, FAD 18 to ensure follow up with Shri Anurag, Scientist-C, BIS to submit the allocated draft. |
|  | IS 5558 : 1970  Reviewed In : 2020 | Specification for chicken essence | See 5.3. | See 5.3 |
|  | IS 5960 (Part 11) : 2013  Reviewed In : 2020 | Meat and meat products - Methods of test: Part 11 determination of glucono - Delta - Lactone content (*first revision*) | The committee noted that, the action research project has been allocated to Neha Kumari, Scientist-D, BIS.  The ARP report is awaited. | The committee noted the information and requested to Member Secretary, FAD 18 to ensure follow up with Ms. Neha Kumari, Scientist-D, BIS to submit the allocated draft. |
|  | IS 8895 : 2015  Reviewed In : 2020 | Handling, Storage and Transport of Slaughterhouse By-Products — Guidelines (*first revision*) | 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. | The committee noted the information and requested to Member Secretary, FAD 18 to ensure follow up with Shri Anurag, Scientist-C, BIS to submit the allocated draft. |
|  | 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 noted the information and decided to circulate the ISO 13493: 2021 again for a period of 7 days seeking comments from members of FAD 18. Based on the comments received, decisions will be taken by the committee in its next meeting. |

**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:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. ***Product Specification (Food products)*** | | | |  |
| ***Sl. No.*** | ***IS*** | ***Status as of 21st meeting*** | ***Decision taken in 21 meeting*** | ***Decision taken in 22nd meeting*** |
|  | 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. | The committee analyzed the comments and updated draft received from Dr. Ashim K Biswas, Convenor, FAD 18/ Panel III. After due deliberation, the committee approved the draft with minor modifications. (enclosed at ***Annex 4***)    Further, the committee decided to send the above modified draft into wide circulation for a period of 60 days seeking comments. |
| 1. ***Method of Test*** | | |  |  |
|  | IS 13401 : 1992  Meat and meat products Determination of thiobarbituric acid value in meat - Test method | The committee noted the information and decided to drop FAD 18 (24826) WC.  Further, the committee decided to circulate the final report of the Action research project upon its completion among the committee members. | The document has been dropped from BIS standards portal. | The committee noted the information. |

**ITEM 6 INTERNATIONAL ACTIVITIES**

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

The committee noted the status of the ISO ballots since 21st meeting of FAD 18 as given under 6.1 of the agenda.

**ITEM 7 MAPPING OF EQUIPMENT WITH INDIAN STANDARDS**

In its 22nd 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.

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

**8.1 Review of Research projects allotted on 1st Phase**

**8.1.1** The committee noted the information provided under 8.1 of the agenda and approved the progress report submitted by concerned project leader and allocated an extension of 2 months to projects as mentioned below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sl No. | R&D project Details | Allotted to | Date of completion of the project as per guideline | Project report approval status |
|  | 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 | Approved with extension till 15 March 2025 |
|  | Study on requirements and operational aspects of small-scale slaughterhouses for hygienic meat production | Dr. M. Muthukumar | 15 January 2025 | Approved with extension till 15 March 2025 |
|  | Development of lateral flow immunoassay integrated smartphone device-based method for authentication. test in-situ meat | Dr. B M Naveena | 15 January 2025 | Approved |
|  | Study on Shelf-life assessment of shell eggs. | Dr. Vishnuraj M. R | 11 January 2025 | Approved with extension till 15 March 2025 |
|  | Development of smart sensor probe-based method for rapid detection of freshness of dressed chicken. | Dr. Suman Talukdar | 15 January 2025 | Approved with extension till 15 March 2025 |

The committee further resolved to send the progress reports to concerned department for disbursement of 2nd phase of fund.

**8.1.2** The committee further analyzed the existing R&D guidelines and proposed the following modifications considering the existing R&D guidelines of other government authorities in India:

1. Utilization certificate as per GFR 12-A of GFR 2017 shall be submitted at the end of the project timeline or end of the year of the project (whichever arrives first).
2. In place of UC, the concerned department may seek Statement of Expenditure (SOE), if needed.
3. The deduction of 10% TDS from the sanctioned amount of R&D fund shall not be carried out as the amount sanctioned under R&D is not an income to the concerned organizations.

**8.2** **Life Cycle Approach of Meat Industry**

The committee noted the information provided and proposal of Member Secretary, FAD 18 mentioned at 8.2 of the agenda. After due deliberations the following decisions were taken:

1. The committee approved the constitution of a working group titled as ‘FAD 22/ WG III – Working group on Sustainability Mapping of Meat Industry’.
2. The committee appointed Mr. Rajesh, M/s Licious (Delightful Gourmet Pvt Ltd), Bengaluru as Convenor of the working group.
3. The committee allocated a time period of 6 month to the working group for completion of the task and submission of draft standard.
4. The committee then requested the convenor and other committee members to nominate experts for the working group at the earliest for initiation of the work.
5. Further, the following experts showed their interest in being part of the working group:
   1. Dr. B M Naveena
   2. Dr. M Mutthukumar
   3. Dr. P K Mandal
   4. Dr. Kalimpasha Ahmed Khan Pathan
   5. Dr. R. Narendra Babu
   6. Dr. S. Ezhilvelan

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

The committee noted the information mentioned in 8.3 of the agenda.

**ITEM 9 TIME AND PLACE FOR THE NEXT MEETING**

The committee decided to schedule its 23rd meeting of FAD 18 at ICAR - Indian Veterinary Research Institute, Izatnagar on 19 February 2024 (10.00 AM onwards) as per approved Annual Meeting Callender. Further, the committee requested Dr. A R Sen, ICAR- IVRI to organize an workshop/ symposium in the latter half of the day for the students, faculty, researchers at IVRI.

**ANNEX A**

**ATTENDANCE**

**Slaughter House and Meat Industry Sectional Committee, FAD 18**

Dated: 29 November 2024 Venue: CSIR- CFTRI, Mysore

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Organization** | **Member Represented** |
|  | ICAR- National Meat Research Institute, Hyderabad | **Dr. S. B. Barbuddhe**  **(*Chairperson*)** |
|  | CSIR- Central Food Technological Research Institute, Mysore | Dr. Tanaji Kudre |
|  | National Meat Research Institute, Hyderabad | Dr. M. Muthukumar |
|  | M/s Licious (Delightful Gourmet Pvt Ltd), Bengaluru | Shri Rajesh S. |
|  | Bureau of Indian Standards, New Delhi | Shri Debasish Mahalik,  **(*Member Secretary*)** |
| **Members join the Meeting on Virtual Mode** | | |
| **Sl. No.** | **Organization** | **Member Represented** |
|  | All India Meat and Livestock Exporters Association, Mumbai | Dr. N. Kondaiah |
|  | Animal Welfare Board of India, Balabgarh, Haryana | Mrs. Prachi Jain |
|  | Association of Meat Scientists and Technologists (AMST), Chennai | Dr. Vasanthi |
|  | CSIR- Central Leather Research Institute, Chennai | Dr. T. S. Uma |
|  | Deonar Slaughterhouse, Mumbai | Dr. Kalimpasha Ahmedkhan  Pathan |
|  | Greater Hyderabad Municipal Corporation, Hyderabad | Dr. Abdul Wakil |
|  | ICAR- National Research Center on Mithun, Dimapur, Nagaland | Dr. Girish Patil  Dr. Harshit Kumar |
|  | Indian Meat Science Association, Hyderabad | Dr. Rajiv Ranjan Kumar |
|  | Indian Poultry Science Association, Izatnagar | Dr. Jaydeep Rokade |
|  | Indian Veterinary Research Institute, Izatnagar | Dr. A. R. Sen  Dr Suman Talukder |
|  | Kerala Veterinary and Animal Sciences University, Thrissur | Dr. Vasudevan V. N. |
|  | Ministry of Food Processing Industries, Delhi | Dr. G. Srinivasan |
|  | National Meat Research Institute, Hyderabad | Dr. B M Naveena |
|  | National Research Centre for Pig, Guwahati | Dr. R. Thomas |
|  | People for Ethical Treatment of Animals, Mumbai | Dr. Kiran Ahuja |
|  | Rajiv Gandhi Institute of Veterinary Education and Research (RIVER), Pondicherry | Dr. Prabhat K. Mandal |
|  | Tamil Nadu Veterinary and Animal Sciences University,  Chennai | Dr. R. Narendra Babu  Dr. S. Ezhilvelan |
|  | Voluntary Organization in Interest of Consumer Education (VOICE), New Delhi | Shri M. A. U. khan  Shri Harbans Wadhwa |