**BUREAU OF INDIAN STANDARDS**

**MINUTES**

|  |  |  |
| --- | --- | --- |
| **TITLE OF THE SECTIONAL COMMITTEE** | | **NUMBER OF THEMEETING** |
| **FOOD MICROBIOLOGY**  **SECTIONAL COMMITTEE, FAD 31** | | **FOURTH** |
|  | |  |
| **DATE AND DAY: 15 July 2024, Monday** | | **TIME: 1030 hrs** |
| **VENUE:** | Blue Room (Vimarsha)  BIS, Manak Bhawan, 9, BSZ Marg  New Delhi - 110002 | |
| **CHAIRPERSON:** | Dr. Kiran N.Bhilegaonkar  Principal Scientist & Head  Public Health Division  ICAR-Indian Veterinary Research Institute  Barielly (UP) - 243001 | |
| **MEMBER**  **SECRETARY:** | Smt. Varsha Gupta  Scientist-E/ Director  Food & Agriculture Department  Bureau of Indian Standards  New Delhi - 110002 | |

**The list of participants is given in Annex A** (*p 12*).

**ITEM 0 WELCOME AND OPENING REMARKS**

* 1. Welcome and Opening Remarks

Smt Suneeti Toteja, Scientist F/Senior Director and Head, FAD and Ms. Varsha Gupta, Member Secretary, FAD 31 extended a warm welcome to all the members to the fourth meeting of Food Microbiology Sectional Committee, FAD 31, held in hybrid mode. Smt Suneeti Toteja apprised them on the initiatives taken by BIS regarding the strategy to strengthen the active participation in ISO related work. She also informed the Committee for the importance of the regularly attending the meeting by the members and actively involved in its work. Dr Kiran Bhilegaonkar, Chairperson, FAD 31 also warmly welcomed the members, especially newly inducted members, of the Committee to its fourth meeting. In his opening remarks, Dr Bhilegaonkar appreciated the initiatives taken by the BIS and expressed his pleasure on the actions taken by the Committee in order to strengthen its participation in the ISO activities which are in line with the strategy laid down by the BIS. He also encouraged the members to continue their presence in the meetings and their active involvement in its work.

* 1. Constitution of Resolution Drafting Committee

A ‘Resolution Drafting Committee’ comprising of following members was constituted:

1. Sh Angshuman Saha
2. Dr Pankaj Kishore

**0.3** The resolutions of the meeting as drafted by the ‘Resolution Drafting Committee’ were circulated to the members through e-mail as well as BIS portal on 24 July 2024. A copy of the resolutions is placed as Annex B below:

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

There being no comments, the Committee confirmed the minutes of the third meeting of Food Microbiology Sectional Committee, FAD 31 held on 28 Nov 2023, through hybrid mode, without any modifications.

**ITEM 2 SCOPE AND COMPOSITION OF FAD 31**

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

**2.1.1** The Committee noted the information provided under this agenda item regarding the approval of the withdrawal of following Indian Standardsby FADC at its 29th meeting held on 27 May 2024.

|  |  |
| --- | --- |
| IS No. & Title | Justification of withdrawal of Indian Standard |
| **i)** IS 5887 (Pt-1):1976 Methods for detection of bacteria responsible for food poisoning: Part 1 isolation, identification and enumeration of *E. coli* | Limitations of the method and availability of suitable alternate standard reference methods for *E. coli*, i.e., IS 16067 (Pt-1):2020/ISO 16649-1:2018, IS 16067 (Pt-2):2023/ISO 16649-2:2001, IS 16067 (Pt-3):2023/ISO 16649-3:2015 and IS 16424:2016/ ISO 7251:2005 |
| **ii)** IS 16425:2016/ ISO 7937:2004 Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of *Clostridium perfringens* - Colony Count technique | Withdrawal of ISO 7937:2004 by ISO/TC 34/SC 9 |

**2.1.2** The Committee noted the scope and programme of work of the Food Microbiology Sectional Committee, FAD 31 as placed to it at Annex 1 of the agenda.

**2.2 COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.2.1** The Committee noted the approval of recommendation of the Committee by FADC to co-opt Hindustan Unilever Ltd., at its 29th meeting held on 27 May 2024

**2.2.2** The Committee also noted the approval of recommendation of the Committee by FADC to withdraw membership of following organizations at its 29th meeting held on 27 May 2024:

| S.  No. | Member Organization | Justification of withdrawal |
| --- | --- | --- |
| 1. | Central University of Hyderabad | Due to no response from them on repeated communications regarding their co-option in the Committee |
| 2. | All India Food Processors' Association (AIFPA), New Delhi | Absence of these organizations in last two or more consecutive meetings alongwith non-participation in the Committee work and decided recommending FADC to withdraw their nomination |
| 3. | Confederation of Indian Industry, New Delhi |

**2.2.3** The Committee deliberated on the co-option request received from Dr Chandrashekhar G. Raut, Director - Interdisciplinary Research, & Lab Director, Dr D.Y. Patil Medical College, Hospital & Research Centre, Sant Tukaram Nagar, Pimpri, Pune and agreed to co-opt him in Panel 4 of FAD 31.

**2.2.4** The Committee noted the updated composition of FAD 31 indicating the attendance of last three meetings of the member organizations as placed to it at Annex 2 of the agenda.

**2.2.5** The Committee reviewed the compositions of various panels functional under FAD 31 placed to the Committee at Annex 3 and decided to rename FAD 31/ Panel 2 and 3 as FAD 31/ Working Group 2 and 3, respectively, along with allocating deadline to complete their tasks as per the details given in the Annex 1 below. The panel also decides to co-opt Dr Rashmi H. M. from ICAR-NDRI, Bangalore in FAD 31/ WG 01. The revised list of Panels/Working Groups under FAD 31, based on the discussion held in the meeting is placed as Annex C below:



**ITEM 3 PUBLISHED DRAFT INDIAN STANDARD (FINALIZED SINCE LAST MEETING OF FAD 31)**

The Committee noted the information provided under this agenda item regarding publication of the Indian Standards mentioned in the table under this agenda item which were finalized by FAD 31 during its 3rd meeting held on 28 Nov 2023. The Committee noted that revised version of ISO 17468 has also been published in 2023, hence revision of IS 18568 : 2024/ ISO 17468 : 2016 may be taken up. The wide circulation draft adopting the revised version of ISO standard may be circulated for 60 days for comments of the stakeholders and in case of no comments received, the draft may be finalized and send for publication with the approval of Chairperson, FAD 31.

| **Sl. No.** | **Document No.** | **Title** |
| --- | --- | --- |
|  | FAD 31 (23398)  **IS 18564 (Part 1) : 2024/ ISO 10272-1 : 2017** | Microbiology of the food chain Horizontal method for detection and enumeration of *Campylobacter* spp Part 1 Detection method  *(Adoption of ISO 10272-1 : 2017)* |
|  | FAD 31 (23399)  **IS 18564 (Part 2) : 2024/ ISO 10272-2 : 2017** | Microbiology of the food chain Horizontal method for detection and enumeration of *Campylobacter* spp Part 2 Colony-count technique  *(Adoption of ISO 10272-2 : 2017)* |
|  | FAD 31 (23400)  **IS 18566 : 2024/ ISO 13722 : 2017** | Microbiology of the food chain Enumeration of *Brochothrix* spp Colony-count technique  (Adoption of *ISO 13722:2017*) |
|  | FAD 31 (23401)  **IS 18567 : 2024/ ISO 17410 : 2019** | Microbiology of the food chain Horizontal method for the enumeration of psychrotrophic microorganisms  *(Adoption of ISO 17410 : 2019)* |
|  | FAD 31 (23402)  **IS 18568 : 2024/ ISO 17468 : 2016** | Microbiology of the food chain Technical requirements and guidance on establishment or revision of a standardized reference method  *(Adoption of ISO 17468 : 2016)* |
|  | FAD 31 (23403)  **IS 18569 : 2024/ ISO 18743 : 2015** | Microbiology of the food chain Detection of *Trichinella* larvae in meat by artificial digestion method  *(Adoption of ISO 18743 : 2015)* |
|  | FAD 31 (23393)  **IS 5402 : Part 1: 2021/ ISO 4833 - 1:2013, Amendment – 1** | Microbiology of the food chain - Horizontal method for the enumeration of microorganisms- Part 1 Colony count at 30 ˚C by the pour plate technique  (*Adoption of Amendment No. 1 issued in Jan 2022 to ISO 4833-1 : 2013*) |
|  | FAD 31 (23394)  **IS 5402 : Part 2: 2021/ ISO 4833 - 2:2013, Amendment – 1** | Microbiology of the food chain- Horizontal method for the enumeration of microorganisms - Part 2 Colony count at 30 ˚C by the surface plating technique  *(Adoption of Technical Corrigendum 1 issued in Feb 2015 and Amendment No. 1 issued in Jan 2022 to ISO 4833-2 : 2013)* |
|  | FAD 31 (23395)  **IS 5887 : Part 6: 2012/ ISO 7932 : 2004, Amendment – 1** | Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive *Bacillus cereus* Part 6 Colony - count technique at 30 ˚C (*First Revision*)  (*Adoption of Amendment No. 1 issued in March 2020 to ISO 7932 : 2004*) |
|  | FAD 31 (23396)  **IS 17383 : 2020/ *ISO 11133 : 2014*, Amendment – 2** | Microbiology of food animal feed and water - preparation production storage and performance testing of culture media  (*Adoption of Amendment No. 2 issued in May 2020 to ISO 11133 : 2014*) |
|  | FAD 31 (23397)  **to IS 5887 (Part 5/Sec 1) : 2023/ISO 21872-1 : 2017, Amendment No. 1** | Methods for detection of bacteria responsible for food poisoning Part 5 Horizontal method for the determination of *Vibrio* spp Section 1 Detection of potentially enteropathogenic *Vibrio parahaemolyticus, Vibrio cholerae* and *Vibrio vulnificus* (*Second Revision*)  (*Adoption of Amendment No. 1 issued in Feb 2023 to ISO 21872-1 : 2017*) |

**ITEM 4 FINALIZED DRAFT INDIAN STANDARDS UNDER PUBLICATION**

The Committee noted the information provided under this agenda item regarding the wide circulation of the drafts Indian Standards mentioned in the table below, their finalization and sending for publication with the approval of Chairperson, FAD 31.

|  |  |  |
| --- | --- | --- |
| **Sl.**  **No.** | **Document No.** | **Title** |
|  | **FAD 31 (24400)**  (*Revision of IS 5404:1984*) | Sampling transport storage and sample preparation of food samples for microbiological analysis |
|  | **FAD 31 (24528)** | Water quality enumeration of culturable micro-organisms colony count by inoculation in a nutrient agar culture medium  *(Adoption of ISO 6222 : 1999 )* |
|  | **FAD 31 (24529)** | Water quality requirements for the performance testing of membrane filters used for direct enumeration of microorganisms by culture methods  *(Adoption of ISO 7704 : 2023)* |
|  | **FAD 31 (24530)** | Water quality detection and enumeration of bacteriophages Part 1 Enumeration of F-specific RNA bacteriophages  *(Adoption of ISO 10705-1 : 1995)* |
|  | **FAD 31 (24531)** | Water quality detection and enumeration of bacteriophages Part 2 Enumeration of somatic coliphages  *(Adoption of ISO 10705-2 : 2000)* |
|  | **FAD 31 (24532)** | Water quality detection and enumeration of bacteriophages Part 4 Enumeration of bacteriophages infecting *Bacteroides fragilis*  *(Adoption of ISO 10705-4 : 2001)* |
|  | **FAD 31 (24533)** | Water quality detection and enumeration of bacteriophages Part 3 Validation of methods for concentration of bacteriophages from water  *(Adoption of ISO 10705-3 : 2003)* |
|  | **FAD 31 (24534)** | Water quality enumeration of *Legionella*  *(Adoption of ISO 11731:2017*) |
|  | **FAD 31 (24535)** | Water quality enumeration of *Clostridium perfringens*- Method using membrane filtration  *(Adoption of ISO 14189 : 2013)* |
|  | **FAD 31 (24536)** | Water quality requirements for establishing performance characteristics of quantitative microbiological methods  *(Adoption of ISO 13843 : 2017)* |

**ITEM 5 DRAFT INDIAN STANDARDS ISSUED FOR WIDE CIRCULATION**

**5.1** The Committee noted the information provided under this agenda item regarding the wide circulation of the drafts Indian Standards mentioned in the table below, on approval of the recommendation of FAD 31/ Panel 4, with their WC date and last date of comments.

| **Sl. No.** | **Doc No.** | **Title** | **WC Date** | **Last Date of Comments** |
| --- | --- | --- | --- | --- |
|  | **FAD 31 (25878)** | Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of *Clostridium* spp. — Part 3: Detection of *Clostridium perfringens*  (*Adoption of ISO/TS 15213-3 : 2024*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25879)** | Microbiology of the Food Chain — Horizontal Method for the Detection and Enumeration of *Clostridium* spp. — Part 2: Enumeration of *Clostridium* *perfringens* by Colony-Count Technique  (*Adoption of ISO 15213-2 : 2023*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25880)** | Water Quality — Detection and Quantification of *Legionella* spp. and/or *Legionella pneumophila* by Concentration and Genic Amplification by Quantitative Polymerase Chain Reaction (qPCR)  (*Adoption of ISO/TS 12869 : 2019*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25881)** | Water Quality — Isolation and Identification of *Cryptosporidium* oocysts and Giardia cysts from water  (*Adoption of ISO 15553 : 2006*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25882)** | Water Quality — Detection and Enumeration of Pseudomonas aeruginosa — Method by Membrane Filtration  (*Adoption of ISO 16266 : 2006*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25884)** | Water Quality — Detection and Enumeration of *Pseudomonas* *aeruginosa* — Most Probable Number Method  (*Adoption of ISO 16266-2 : 2018*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25886)** | Microbiology of the Food Chain — Sampling Techniques for Microbiological Analysis of Food and Feed Samples  (*Adoption of ISO/TS 17728 : 2015*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25887)** | Water Quality — Detection and Enumeration of Thermotolerant *Campylobacter* spp.  (*Adoption of ISO 17995 : 2019*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25888)** | Water Quality — The Variability of Test Results and the Uncertainty of Measurement of Microbiological Enumeration Methods  (*Adoption of ISO 29201 : 2012*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25899)**  Amendment – 1 to IS 5887 (Part 8/Sec 1) : 2023/ISO 6888 - 1 : 2021 | Methods for Detection of Bacteria Responsible for Food Poisoning - Part 8: Horizontal Method for the Enumeration of Coagulase-Positive Staphylococci (*Staphylococcus aureus* and Other Species) Sec 1: Method Using Baird-Parker Agar Medium (*first revision*)  (*Adoption of Amendment No. 1 issued in Sep 2023 to ISO 6888 - 1 : 2021*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25901)**  Amendment – 1 to IS 5887 (Part 8/Sec 2) : 2023/ISO 6888 - 2 : 2021 | Methods for Detection of Bacteria Responsible for Food Poisoning Part 8: Horizontal Method for the Enumeration of Coagulase-Positive Staphylococci (*Staphylococcus aureus* and Other Species) Sec 2: Method using Rabbit Plasma Fibrinogen Agar Medium (*first revision*)  (*Adoption of Amendment No. 1 issued in Sep 2023 to ISO 6888 - 2 : 2021*) | 04.07.2024 | 01.09.2024 |
|  | **FAD 31 (25903)**  Amendment – 1 to IS 16424 : 2016/ ISO 7251 : 2005 | Microbiology of Food and Animal Feeding Stuffs — Horizontal Method for the Detection and Enumeration of Presumptive *Escherichia coli* — Most Probable Number Technique  (*Adoption of Amendment No. 1 issued in Oct 2023 to ISO 7251 : 2005*) | 04.07.2024 | 01.09.2024 |

* 1. The Committee noted the information provided under this agenda item.
  2. The Committee noted the information provided under this agenda item, in addition, Dr Rahul Kolhe is a nominated experts in WG 21 from BIS. FAD 31/Panel 4 may discuss the details regarding the work of this WG at its next meeting.

**ITEM 6 REVISIN OF INDIAN STANDARDS/ DRAFTS UNDER PREPARATION**

**6.1 Review and Revision of Indian Standards on Microbiological Media Ingredients**

**FAD 31/ Panel 3**

FAD 31 re-designated the panel as FAD 31/Working Group 3 and reviewed the revision work of 16 Indian Standard on Microbiological Media Ingredients including the Indian Standard on ‘Methods of sampling and test for ingredients used in media for microbiological work’ under FAD 31. FAD 31 appraised that out of 16 standards, 06 standards are published and wide circulation drafts of 03 standards were under preparation. However, in view of the non-availability of experts in this WG, the Committee decided to archive rest of the standards except IS 6854 : 1973 and suggested the Committee to find and nominate suitable experts from the media manufacturers in the WG.

**6.2 Revision of IS 14595:1998 Food Hygiene, Microbiological criteria – Principles for establishment and application**

**FAD 31/ Panel 2**

The Committee deliberated on the agenda item and re-designated the panel as FAD 31/Working Group 2. The Committee asked the technical experts to arrange a meeting for discussion on the comments/inputs provided on IS 14595:1998 placed to the Committee at Annex 4 & Annex 5 of the agenda and finalize the draft by 30 September 2024.

**6.3 Review and Revision of IS 5887 (Part 2) : 1976 - Methods for detection of bacteria responsible for food poisoning: Part 2 Isolation, identification and enumeration of *Staphylococcus aureus* and faecal streptococci**

The Committee deliberated that since the alternate method for identification and enumeration of faecal streptococci is not available, this standard cannot be withdrawn as of now. The Committee asked FAD 31/ Panel 4 to keep track on the development of ISO21722 and decided to deliberate on the agenda once again on publication of standard by ISO/TC 34/SC 9 and adoption by FAD 31.

**6.4** The Committee deliberated on the agenda item and decided to inform the concerned technical Committee(s) of BIS to replace IS 5887 (Part 2) with the suitable section of IS 5887 (Part 8) for detection & enumeration of coagulase positive *Staphylococcus aureus* in their product standard(s) developed by them. Justification provide by the Committee is mentioned below:

*The method given in IS 5887 (Part 2) is very old. Also, the method performance criteria and media performance checks are not mentioned in standard. In addition, although IS 5887 (Part 2) prescribes a quantitative method, measurement uncertainty has not been addressed in the standard.*

**ITEM 7 COMMENTS RECEIVED ON PUBLISHED STANDARDS**

**7.1 IS 5887 (Part 5/Sec 1) : 2023/ ISO 21872-1 : 2017** Methods for detection of bacteria responsible for food poisoning Part 5: Horizontal method for the determination of *Vibrio* spp Section 1: Detection of potentially enteropathogenic *Vibrio parahaemolyticus*, *Vibrio cholera* and *Vibrio vulnificus* (*second revision*)

1. The Committee reviewed the comments received from BIS laboratories placed to the Committee at Annex 7 & 8 of the agenda and decides to prepare an SOP on sample preparation part considering 250 ml volume applicable for PDW by 22 July 2024. FAD 31 also decides for preparation of a plan for validation of the test method by 07 August 2024. The committee decided not to accept any alternative method in replacement of standard reference method.
2. The committee also examined the comments received from Sh Abhijit Singh, BIS placed to the Committee at Annex 9 of the agenda and informed that that his comments had already been addressed in ISO 7218 as a normative reference of IS 5887 (Part 5/Sec 1) : 2023/ ISO 21872-1 : 2017.

**ITEM 8 REVIEW OF INDIAN STANDARDS**

**8.1** The Committee noted the list of Indian Standards placed under this agenda item which were due for review and decided to circulate those to all the members for 30 days for comments, if any. The Committee decided to review and take further decision on those standards in the next meeting.

**ITEM 9 NEW SUBJECTS**

**9.1 a) Provision of R & D Projects Under BIS Funds**

The Committee noted the information provided to the Committee at Annex 10 & Annex 11 of the agenda.

**b) Proposal Received on R&D Project on Various Subjects**

The Committee deliberated on the agenda item and revised the composition of FAD 31/ Panel 5 for ‘Discussion and Finalization of ToRs for R&D Projects’ as follows with the terms of reference as given below:

**Composition:**

1. Dr Kiran Bhilegaokar (Chairperson, FAD 31) – Special Invitee

2. Dr S. B. Barbuddhe - ICAR-NMRI, Hyderabad

3. Sh Angshuman Saha – EIC of India, New Delhi

4. Dr Pankaj Kishore – ICAR-CIFT, Kochi

5. Dr Diwas Pradhan – ICAR-NDRI, Karnal

6. Dr Raghu HV – ICAR-NDRI, Karnal

7. Dr Jitender Singh – NDDB, Anand

8. Dr Pirabhakaran – Hindustan Unilever Limited

**Terms of Reference (ToR):**

1. To study and examine the proposals and ToRs received on various subjects under FAD 31 for R&D projects under the guidelines laid down by BIS;
2. To finalize the ToRs for the R&D projects;
3. To provide suggestions to the Committee, for the nomination of technical experts from the Committee, in the Research Evaluation Committee (REC) of BIS for each R&D project.

The Committee decided this panel to designate as a ‘Standing Panel’ and its composition may be modified as and when required, depending upon the types of R&D project to be taken for discussion by the Panel. The Committee asked the panel to arrange a meeting on priority to take forward its task. The committee also asked Shri Angshuman Saha to submit an SOP on Detection of *Vibrio spp*. from water sample by the end of July 2024 for facilitating laboratories involved in the Packaged Drinking water testing under mandatory BIS certification.

* 1. **Brainstorming on Antimicrobial Resistance (AMR) in Food Products**

**(FAD 31/WG 01)**

The Committee deliberated on the work done by the FAD 31/WG 01 and decided to rename the Working Group from ‘Brainstorming on Antimicrobial Resistance in Food Products’ to ‘Antimicrobial Resistance’.

The Committee also considered the recommendation of the working group to organize a full day seminar on AMR as placed under this agenda item. The Committee requested the Member Secretary to discuss with the WG members to plan the seminar considering target audience (to discuss with ICAR - CIFT, Kochi and ICAR - IVRI, Bareilly) & suitable speakers and to communicate the details with the members.

**ITEM 10 OTHER TECHNICAL ISSUESS**

**10.1 Communication received from IIT, Jodhpur for development of Indian Standard for detection of coliforms in water on a paper strip dip based method developed by them**

The Committee deliberated on the agenda item in detail along with the Annex 18 & Annex 19 of the agenda. The Committee discussed the proposal and also made queries to Dr Meenu Chhabra regarding principle of the test, validation study etc., which she addressed during the deliberation. FAD 31 noted that the validation report by State Waster Testing Laboratory, Bhubaneshwar mentioned detection levels higher in contrary to the reported 10 cfu/ml by the inventor. Further, the detection of the organism is based on ‘Catalase Activity’ which doesn’t provide specificity to the method. The Committee decided not to accept the proposal to develop the protocol as Indian standard as the proposed method may give false positive or false negative results. Moreover, performance criteria of the method are not determined w.r.t. sensitivity, specificity, inclusivity, exclusivity, LOD, LOQ, Linearity, Robustness, false positive and false negative results (detailed validation report).

FAD 31 suggested Dr Meenu Chhabra, IIT, Jodhpur that although the method cannot be developed as Indian Standard however the same may be taken forward for patent, as informed by her.

**10.2 Discussion on making available all reference cultures with MTCC, as per the ISO standards for food and water samples, to the Indian stakeholders**

The Committee noted the details provided under this agenda item and appreciated the efforts made by IMTECH to make the microbiological test cultures available as per IS/ISO method for Indian stakeholders. The Committee suggested that the information may be displayed on the website under the revised heading as 'List of cultures as per IS/ISO standards for food microbiology by Bureau of Indian Standards' to provide better clarity to the laboratories. The Committee also requested Dr Suresh Korpole to make it available on direct website of IMTECH, Chandigarh, under single link with the suggested heading, rather than on the website of MTCC.

**ITEM 11 INTERNATIONAL ACTIVITIES**

**11.1, 11.2 &11.3** The Committee noted that FAD 31 is the National Mirror Committee for the corresponding ISO sub-committees, ISO/TC 34/SC 9 ‘Microbiology’ (of *Food Products*) and ISO/TC 147/SC 4 ‘Microbiology’(of *Water Quality*). The Committee further noted that BIS as a ‘P’ (Participating) member in these ISO sub-committees has been casting votes for ISO ballots under them with the inputs received from the FAD 31 Committee Members. The committee considered the program of work of ISO/TC 34/SC 9 and ISO/TC 147/SC 4 with the ISO standards published and under development under them (Annex 20 & 21 of the agenda).

The member secretary apprised the members about the significance of appropriate representation of national viewpoints on the international standards being formulated/reviewed.

**11.4 Status of the Work Done by FAD 31/ Panel 4**

**11.4.1** The Committee considered the work done by the FAD 31/Panel 4 with appreciation and also noted the details of the members nominated in various AHGs/WGs of SC 9 as under this agenda item.

**11.4.2** The Committee commended the efforts done by the Member Secretary, Smt Varsha Gupta and Sh Angshuman Saha in apprising and hand-holding the newly nominated experts in various WGs/AHG of ISO/TC 34/SC 9 about the ISO related terminologies, functions of ISO TCs/SCs/WGs and other ISO related work. The Committee also applauded Sh Angshuman Saha for sharing his experience working with SC 9 and its working groups and provided valuable key insights and suggestions to assist newly nominated experts in efficiently progressing with ISO-related endeavors. The Committee also noted the strategy adopted by FAD 31/Panel 4 to keep track on the participation of nominated experts in various WGs/AHGSC 9 suggested the nominated experts to keep the FAD 31/Panel 4 informed on the important development including the meetings scheduled under their working/ad'hoc groups and information on the meetings attended by them.

*The Committee considered the proposal of the secretariat and advised the nominated experts to present the work of their respective WGs/AHGs in the form of a report to the Committee at its next meeting onwards, depending upon the work done by these WGs/AHGs during that time period, mentioning the comments/inputs/feedback provided by them during the meeting and important discussion held including the output of the meeting (specifically the benefit accrued to BIS and recommendations, if any).*

**11.4.3** The Committee considered the proposal placed to the Committee under this agenda item from Sh Angshuman Saha and suggested BIS secretariat to communicate to ITS department of BIS to allow provision for mentioning ISO number also on BIS standards purchase portal while purchasing the adopted Indian standards for better access by Indian stakeholders (Only IS number are displayed and can be selected, as of now, while purchasing any standard from BIS website)***.***

**11.5 Report of 43rd Plenary meeting of ISO/TC 34/SC9**

The Committee considered the report of 43rd plenary meeting submitted by the Indian Delegation with appreciation and agreed with the recommendations of Indian delegation represented at 43rd meeting of ISO plenary meeting to nominate technical experts in various working groups considering the country’s interest and suggested FAD 31/ Panel 4 to deliberate in this regard at its next meeting.

**ITEM 12 TIME AND PLACE FOR THE NEXT MEETING**

The Committee finalized following meeting frequency and plan to conduct meetings of FAD 31 in next 12 months with the tentative dates of the meetings given therein.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sectional Committee** | **Planned frequency (Months)** | **Next Meeting**  **(Tentative)** | **Next to Next Meeting**  **(Tentative)** |
| Food Microbiology Sectional Committee,  FAD 31 | 4 | November 2024 | March 2025 |

**ITEM 13 ANY OTHER BUSINESS**

There being no other business, the meeting ended with a hearty note of thanks to the Chair & the members.

**ANNEX-A**

**Attendance for the 4th Meeting of**

**Food Microbiology Sectional Committee, FAD 31**

**Held on 15th July, 2024**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Member Name** | **Organization Name** |
|  | Dr Kiran N. Bhilegaonkar\*  **CHAIRPERSON** | ICAR - Indian Veterinary Research Institute, Izzatnagar |
|  | Dr Mukesh Kapoor \* | CSIR - Central Food Technological Research Institute, Mysore |
|  | Dr Suresh Korpole | CSIR - Institute of Microbial Technology, Chandigarh |
|  | Dr Sanjay Chavan \* | Central Research Institute, Kasauli |
|  | Dr Suchita Srivastava \* | Central Research Institute, Kasauli |
|  | Dr Sonam Bansal | Confederation of Indian Food Trade and Industry, New Delhi |
|  | Dr Knupriya\* | Confederation of Indian Food Trade and Industry, New Delhi |
|  | Dr Neera | Defence Food Research Laboratory, Mysore |
|  | Sh Angshuman Saha \* | Export Inspection Council of India, New Delhi |
|  | Ms Sonika Verma \* | Food Safety and Standards Authority of India, New Delhi |
|  | Dr R. Pirabhakaran \* | Hindustan Unilever Limited, Gurugram |
|  | Dr Pankaj Kishore \* | ICAR - Central Institute for Fisheries Technology, Kochi |
|  | Dr Ranjitha K. | ICAR - Indian Institute of Horticultural Research, Bengaluru |
|  | Dr Zunjar B Dubal | ICAR - Indian Veterinary Research Institute, Izzatnagar |
|  | Dr Naveen Kumar R. \* | ICMR - National Institute of Nutrition, Hyderabad |
|  | Dr Abhilash E. C. | Marine Products Export Development Authority, Kochi |
|  | Sh Vinay Tyagi | National Accreditation Board for Testing and Calibration Laboratories, Gurugram |
|  | Sh. Ashutosh D. Tatwawadi | National Accreditation Board for Testing and Calibration Laboratories, Gurugram |
|  | Dr Jitender Singh \* | National Dairy Development Board, Anand |
|  | Dr Diwas Pradhan | National Dairy Research Institute, Karnal |
|  | Sh Asish Kr. Mukhopadhyay | National Institute of Cholera and Enteric Diseases, Kolkata |
|  | Dr Nilanjan Chakarborty | National Institute of Cholera and Enteric Diseases, Kolkata |
|  | Sh Pradnya Ambekar | Neogen Food and Animal Security Private Limited, Kerala |
|  | Dr H.V. Raghu  *(Special Invitee)* | National Dairy Research Institute, Karnal |
|  | Dr Rahul Kolhe  *(Special Invitee)* | Krantisinh Nana Patil College of Veterinary Science, Shirwal |
|  | Dr Vinay Joshi  *(Special Invitee)* | Lala Lajapt Rai University of Vererinary and Animal Sciences, Hissar |
|  | Dr Chetan Kumar  *(Special Invitee)* | National Institute of Veterinary Epidermiologyand Disease Informatic, Bangalore |
|  | Smt Meena Chhabra  *(Special Invitee)* | IIT, Jodhpur |
|  | Smt Varsha Gupta  **MEMBER SECRETARY(FAD 31)** | Food and Agriculture Department, BIS, New Delhi |

***\*Attended the meeting through face-to-face mode***