**BUREAU OF INDIAN STANDARDS**

**MINUTES**

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| **Name of the**  **Committee** | **No. of**  **Meeting** | **Date and Time** | **Venue** |
| Stimulant Foods Sectional Committee, FAD 6 | Twenty Third (23rd) | 12 November 2024  (Tuesday)  1030 hrs | Virtual meeting through WebEx |

**CHAIRPERSON: Shri S. Soundararajan**

Director of Tea Development

Tea Board India, Kolkata

**MEMBER SECRETARY: Dr. Bhawana**

Scientist 'D'

Food and Agriculture Department

Bureau of Indian Standards, New Delhi

**Attendance Sheet**: Please see **Annex-I** (***pg*.** **12-13**)

# ITEM 0 GENERAL

**0.1 Welcome by BIS**

Dr. Bhawana, Scientist D, Food and Agriculture Department, BIS (Member Secretary FAD 6) extended a warm welcome to the members to the 23rd meeting of Stimulant Foods Sectional Committee, FAD 6. She apprised the Committee about the important issues to be discussed in the meeting.

**0.2 Welcome and Opening Remarks by the Chairperson, FAD 6**

Shri S. Soundararajan, Chairperson, Stimulant Foods Sectional Committee, FAD 6 extended a warm welcome to the members of the Committee to its 23rd meeting and urged the members for fruitful discussions on the agenda items.

**ITEM 1 CONFIRMATION OF THE MINUTES OF THE 22ND MEETING OF FAD 6**

There being no comments, the Committee confirmed the minutes of the 22nd Meeting of Stimulant Foods Sectional Committee, FAD 6 held on 3 May 2024 at BIS New Delhi through hybrid mode circulated through BIS portal on 14 May 2024, as such without any changes.

**ITEM 2 SCOPE, ACTIVITIES AND COMPOSITION OF THE SECTIONAL COMMITTEE**

**2.1** The Committee noted the scope and activities of Stimulant Foods Sectional Committee, FAD 6 as given in Annex-I of agenda.

**2.2** The Committee noted the updated composition of FAD 6 along with the attendance of the members for the last 3 meetings as enclosed at Annex-II of agenda and appreciated the attendance of members in the current meeting.

**2.3** The Committee noted the information given under Item 2.3 of agenda regarding obligation of members to attend Committee meetings and decided to recommend to FADC to consider withdrawal of membership of Consumer Guidance Society of India (CGSI), Mumbai and Food Safety and Standards Authority of India, New Delhi due to their lack of participation in more than 2 consecutive meetings of FAD 6.

**2.4** The Committee reviewed the composition of FAD 6/Panel III ‘Tea’ as given under Item 2.4 of agenda and decided to co-opt Dr. C. B. Mathew, Vice-President, Kanan Devan Hills Plantations Company (P) Limited, Munnar, Kerala as member in the panel.

**ITEM 3 DRAFT INDIAN STANDARD(S) FOR** **FINALIZATION**

The Committee noted the information given under Item 3 of agenda that Doc: FAD 06(25350)WC *Draft Indian Standard* ‘Tea ― Determination of Theaflavins in Black Tea ― Method Using High Performance Liquid Chromatography’ completed wide circulation on 22 June 2024 and that no comments have been received on the WC draft. Considering the same, the Committee decided to finalize the draft for publication as Indian Standard.

**ITEM 4 ACTIONS ARISING FROM THE MINUTES OF PREVIOUS MEETING**

The decision of the Committee on the status of actions taken on decisions made during the 22nd meeting of FAD 6 held on 3 May 2024 at BIS New Delhi through hybrid mode is as under:

| **Sl.**  **No.** | **Ref. Clause in Minutes of 22nd Meeting of FAD 6 & Committee’s Decision** | **Action taken/Status** | **Committee’s Decision** |
| --- | --- | --- | --- |
| 1. | Item 4 Formulation of Indian Standard for Tea bagsThe Committee noted that Preliminary *Draft Indian Standard* Tea bags – Specification [Doc: FAD 06(24670)P] was circulated to the members of FAD 6 and that the last date of comments was 16 February 2024. The Committee further noted that no comments had been received on the P-draft and examined the issues highlighted by BIS Secretariat as mentioned under Item 4 of agenda. The Committee was of the view that the text of packing clause in Doc: FAD 06(24670)P is adequate and no change is required in this regard. The Committee decided to refer the other issues (viz. test method for polymer content in paper, requirements/specifications for papers and boards used in tea bags and microbiological tests performed on tea bags and its components) to newly constituted panel on tea. The Committee requested Dr. Sangeeta Chadha, HUL, Mumbai and Dr. Venkatesh Sosle, TCPL, Bangalore to provide inputs on these issues to BIS Secretariat within 30 days, for onward communication to the panel. The Committee requested the Convenor, Dr. Jose David to convene a meeting of the panel as soon as inputs are received from HUL and TCPL on the identified issues, to suggest modifications required in the draft. It was decided that the revised draft with the modifications suggested by Tea panel would be issued into wide circulation for 60 days for comments, with approval of Chairperson FAD 6 and that the comments received on the draft would be considered in the next meeting of FAD 6. | HUL has submitted the following inputs:  “*Our suppliers have provided the following input on the same:*  *There is no formal legal regulation defining microbiological critical limits or microbiological test requirement for paper for food contact. We don’t test microorganism content on every grade on a regularly basis, however we have installed controls within the production process and have arranged external testing every year to confirm keeping good manufacturing practice.*  *We operate our processes, procedures, and controls in line with the requirements of the BRCGS Global standard for packaging. Apart from hygiene controls throughout the process in terms of manufacture, building standards and personnel, the paper is exposed to very high temperatures during drying which kill all bacteria and our subsequent controls for handling the paper prior to packaging and dispatch minimize the risk of any contamination and maintain good microbiological quality.*  *However, as stated by Venkatesh that moulds can be taken into account. I would suggest to give a thought on it and if feel that still there is a need than share the inputs with us which I can discuss with my team for a final go ahead.*”  Inputs are yet awaited from TCPL and HUL in this regard. | The Committee considered the inputs received from HUL and after detailed deliberations expressed the opinion that the tea bags paper/tissue if stored well and protected from moisture ingress, is not prone to microbial contamination, however, components such as tag and thread may serve as source of microbial contamination. The Committee further opined that in the absence of data w.r.t. microbial load of these components, it is not practical to specify any microbiological requirements. In view of the same, the Committee decided to remove Clause 4.8 of Doc: FAD 06(24670)P and suitably incorporate the following text in the draft:  “*The teabag tissues (cellulosic and non-cellulosic), paper / paper board used for tag and the threads used for the manufacture of teabags shall be stored properly to avoid any moisture ingress or microbial contamination*.”  The Committee further noted no inputs has been received w.r.t. test method for polymer content in paper. Considering the crucial importance of the requirement, the Committee was of the view that for implementation purposes, conformity to the requirement may be assessed through the certificate of analysis or specification provided by the raw material supplier and that in future if suitable test method is available, same may be referred/incorporated in the standard at later stage.  Regarding the requirement of paper and boards, the Committee was of the opinion that migration test is the main parameter to be checked in these materials. The Committee requested Dr. Sangeeta Chadha and Dr. Venkatesh Sosle to give inputs regarding the requirements pertaining to paper and boards (Clause 4.7) that may be specified in the standard in place of referring to CFR, within 15 days.  The Committee decided to issue the draft with the above changes into wide circulation for 60 days for comments. |
| 2. | **Item 5 Sl. No. 1 Rationalization of** **Standardization and Certification Agencies in the Food Sector**  The Committee examined the list of test methods detailed in product specification standards under FAD 6 as given in Annex-VI of agenda and requested BIS Secretariat to carry out detailed analysis of the list in consultation with Dr. Jose David, Dr. Mandappa and Mr. Srinivas K. (CAMPCO) and suggest test methods for tea, coffee and cocoa, respectively, for which Indian Standards need to be formulated. | The exercise is yet to be completed. | The Committee requested BIS Secretariat and identified experts to expedite completion of the assigned task and make recommendations for discussion in next meeting of FAD 6. |
| 3. | **Item 5 Sl. No. 3 South Asian Regional Standards Organization (SARSO)**  The Committee decided to request newly constituted expert panel on tea to discuss Nepal’s comments on finalized draft SAARC Standard on Black tea regarding the definition of black tea and submit recommendations to FAD 6 for committee’s consideration. | No update has been received from tea panel. | The Committee requested Convenor FAD 6/ Panel III ‘Tea’ to expedite resolution of issue and submit recommendations for consideration of FAD 6. |
| 4. | **Item 5 Sl. No. 4 New Work Items Suggested under SNAP 2023-27**  The Committee deliberated in detail and expressed the opinion that there is need to formulate a separate Indian Standard on good manufacturing practices for tea sector. TRA Representative informed that they have recently prepared a document on good manufacturing practices for tea sector. The Committee requested TRA to share the document with BIS Secretariat for onward circulation to all the members of FAD 6. The Committee requested all the members to examine the TRA document and give their inputs whether the same may be used a base document for formulation of Indian Standard on GMP for tea.  Regarding GMP for coffee sector, the Committee noted that the task had been allocated to Nestle representative. During the meeting, Nestle representative informed that they are of the opinion that slight changes may be done in IS 16021 : 2012 ‘Good manufacturing practices (GMP) − Requirements for organizations in the food processing sector’ to address the specific issues related to coffee sector and submitted that they will share their inputs/ suggestions within 15 days. The Committee decided that the inputs received from Nestle would be forwarded to all the members of FAD 6 seeking their concurrence. If the members endorse the suggestions of Nestle, the same would be forwarded to FAD 15 for consideration for suitable modification in IS 16021 : 2012.  For GMP for cocoa sector, the Committee requested CAMPCO to give inputs within 30 days. | The document on GMP for tea sector prepared by TRA is enclosed as Annex-III of agenda.  Regarding the GMP for coffee sector, Nestle representative has informed that they do not any further comments.  Regarding GMP for cocoa sector, inputs are yet awaited from CAMPCO. | The Committee considered the TRA document on GMP for tea sector and noted that the document covers both good agricultural practices and good manufacturing practices. BIS Secretariat informed that BIS has formulated IS 15930 (Part 4) : 2019 ‘Requirements for good agricultural practices − IndiaGAP: Part 4 Tea base’ and that the proposed standard taken up by FAD 6 should cover only requirements for GMP for tea sector and exclude GAP which are already covered in IS 15930 (Part 4). The Committee agreed with the suggestion of BIS Secretariat. After examining the TRA document expressed the opinion that more focus needs to be laid on food safety aspects in the proposed standard. The Committee further decided that the document should exclude the further processed forms of tea such as instant tea and should cover only black tea and green tea. Further, the Committee decided that the product specifications should not be included in the standard and it should be a code of practice standard. After detailed deliberation, the Committee decided to create a working group ‘GMP for tea sector’ under FAD 6 to formulate working draft of Indian Standard on GMP for tea sector considering the TRA document, IS 16021 : 2012 ‘Good manufacturing practices (GMP) − Requirements for organizations in the food processing sector’ and other relevant national and international standards also taking into account above decisions/guidance of FAD 6. The composition of FAD 6/WG 1 ‘GMP for tea sector’ as decided by Committee is as under:   1. Dr. S. Sabhapondit, Tea Research Association, Tocklai Tea Research Institute, Jorhat − Convenor 2. Dr. Boopathiraj, UPASI Tea Research Foundation, Valparai − Member 3. Dr. P. Jose David, In personal capacity − Member 4. Mr. Arijit Raha, Indian Tea Association, Kolkata − Member 5. Mr. Prabir Kumar Bhattacharjee, Tea Association of India, Kolkata − Member   The Committee requested the WG to submit the working draft within 4 months.  The Committee further decided to drop the subjects ‘GMP for coffee’ and ‘GMP for cocoa’. |
| 5. | **Item 6.3 Sl. No. 1 Action Research Project for Review of IS 4541 : 1986 ‘Glossary of tea terms’** (*allocated to Dr. P. Jose David*)  The Committee requested BIS Secretariat to share the ISO Standards related to vocabulary to Dr. Jose David and requested Dr. David to thoroughly review IS 4541 vis-a-vis related ISO Standards and the inputs earlier received from different stakeholders on the standard. The Committee requested Dr. David to submit the review document, ARP report and draft revision of IS 4541, within 3 months, for further consideration by the Committee. | Inputs from Dr. Jose David are yet awaited. | The Committee requested Dr. Jose David to complete the action research project for review of IS 4541 : 1986 and submit the review document, ARP report and draft revision of IS 4541, within 2 months, for further consideration by the Committee. |
| 6. | **Item 6.3 Sl. No. 2 Action Research Project for Review of IS 10017 : 1981 ‘Code of practice for construction of cocoa beans storage structures’** (*allocated to Mr. Dadasaheb Desayi, DCCD*)  The Committee requested Mr. Dadasaheb Desayi, DCCD to thoroughly review IS 10017 : 1981 in consultation with the relevant stakeholders and submit the review document, ARP report and draft revision of IS 10017, within 3 months, for further consideration by the Committee. | Inputs from Mr. Dadasaheb Desayi are yet awaited. | The Committee requested Mr. Dadasaheb Desayi to complete the action research project for review of IS 10017 : 1981 and submit the review document, ARP report and draft revision of IS 10017, within 2 months, for further consideration by the Committee. |
| 7. | **Item 6.3 Sl. No. 3 IS 11730 : 1986 ‘Glossary of terms for cocoa chocolate and its products’**  (*allocated to Ms. Ranjeet Kaur, CIFTI-FICCI*)  Ms. Ranjeet Kaur, CIFTI informed that definition of terminology for chocolates are also covered under IS 9328 : 1989 ‘Confectionery industry glossary of terms’ (under Ready-to-Eat Foods and Specialized Products Sectional Committee, FAD 24). The Committee was of the view that since cocoa and its products are covered under FAD 6, therefore, the glossary for related terms should be covered under FAD 6. The Committee, therefore, requested Ms. Ranjeet Kaur to thoroughly review IS 11730 : 1986 also considering the comments earlier received on the standards and other relevant Indian and ISO Standards. The Committee requested Ms. Ranjeet Kaur to submit the review document, ARP report and draft revision of IS 11730, within 2 months, for further consideration by the Committee. The Committee also requested Ms. Kaur to submit suggestions regarding modifications required in IS 9328 w.r.t. definition of chocolate related products, which may then be forwarded to FAD 24 for their consideration. | Inputs from Ms. Ranjeet Kaur are yet awaited. | The Committee requested Ms. Ranjeet Kaur to complete the action research project for review of IS 11730 : 1986 and submit the review document, ARP report and draft revision of IS 11730, within 2 months, for further consideration by the Committee. |

**ITEM 5 R&D PROJECTS FOR FORMULATION/REVISION OF INDIAN STANDARDS**

**5.1** The Committee considered information given under Item 5 and Annex-IV, Annex-V and Annex-VI of agenda regarding the progress report of R&D project on"Development of test method for determination of chicory content in coffee-chicory powder".

**5.2** Dr. Paul Atish Tulshiram, BITS, Pilani, Project Leader made a presentation on the report of analysis of peak appearing in chicory samples and blends.

**5.3** The Committee noted that originally chicoric acid was chosen as marker for estimation of chicory and caffeine for coffee, however, the extraction methods did not yield the desired results, as chicoric acid could not be consistently detected in the procured chicory root sample and was also not found in the commercial coffee-chicory products. The Committee appreciated the progress made by the Project Leader in the alternate approach for study of peaks appearing around 5 min RT for pure chicory samples and coffee-chicory blends. The Committee seconded the proposed approach of the Project Leader to further characterize the peak using NMR/MS techniques and identify a marker compound for chicory, which may be used to develop a qualitative method for detection of chicory in coffee-chicory samples. The Committee was of the view that although the primary objective of the R&D project was to develop a quantitative method for determination of chicory content in coffee-chicory blends, however, the findings of R&D project may lead of development of a qualitative method only for detection of chicory, which would also be of significant importance.

**5.4** The Committee advised the Project Leader to also consult Dr. I. M. Mandappa (Coffee Board) and Dr. Pushpa Murthy (CFTRI, Mysore) regarding the R&D project and to develop a method for detection of chicory in coffee samples. The Committee further advised the PL to validate the method to ensure acceptable repeatability and reproducibility of the developed method.

**5.5** Considering the request made by the Project Leader, the Committee decided to approve extension of project duration for a period of 2 months, with no additional financial support apart from the originally allocated funds for the R&D project.

**ITEM 6 INTERNATIONAL ACTIVITIES**

**6.1** The Committee noted the information given under Item 6.1 of agenda regarding India’s membership in the ISO Committees related to the scope of FAD 6.

**6.2** The Committee reviewed the list of Indian expertsnominated in the working groups of ISO/TC 34/SC 8 and SC 15, as given under Item 6.2 of agenda and decided to nominate Dr. Boopathiraj, Tea Technologist, UPASI TRF, Coonoor as Indian expert in ISO/TC 34/SC 8/ WG 7 ‘Oolong tea and white tea’ in addition to the already nominated experts. The Committee further decided to nominate Dr. C. B. Mathew, Vice-President, KDHP, Munnar, Kerala as Indian expert in ISO/TC 34/SC 8/AHG 1 ‘Metal dust’ and AHG 2 ‘Density measurement of leaf tea’ in place of Mr. S. Soundararajan, Chairperson FAD 6. ***The Committee requested the Indian experts nominated in ISO WGs to submit a brief report to BIS Secretariat regarding the work going on in their respective WGs and contribution made by them. The Committee further directed all the nominated experts to ensure updating BIS Secretariat regarding participation in WG meetings and submit report of their participation in the meetings.***

**6.3** The Committee examined the ISO ballots open for voting under ISO/TC 34/SC 8 and SC 15 as listed under Item 6.3 of agenda. The Committee decided as under:

1. to nominate Dr. Boopathiraj, UPASI, Coonoor as designated expert from India for ISO/CD 20680 ‘White tea — Definition and basic requirements’ to examine the current and future stage documents on this ISO project and provide inputs for casting India’s vote;
2. to refer SR ballot of ISO 3103:2019 ‘Tea — Preparation of liquor for use in sensory tests’ to Dr. Jose David to examine the ISO Standard thoroughly and submit inputs for casting India’s vote; and
3. to refer the ballots launched by SC 15 to Coffee Board to give inputs for casting India’s vote.

**6.4** The Committee noted the information given Item 6.4 of agenda regarding instructions relating to India’s participation at ISO/IEC level and noted the status of India’s participation in various projects under development in ISO/TC 34/SC 8 ‘Tea’ and SC 15 ‘Coffee’ as given under Item 6.4.4 of agenda.

**6.5** **Report of Participation of Indian Delegation in the Plenary Meeting of ISO/TC 34/SC 8**

**Held on 30 July 2024 in Colombo, Sri Lanka**

**6.5.1** The Committee noted the information given under Items 6.5.1 and 6.5.2 of agenda regarding participation of Indian delegation in the plenary meeting of ISO/TC 34/SC 8 ‘Tea’ held on 23 July 2024 in Colombo, Sri Lanka.

**6.5.2** The Committeeexamined the report of participation of Indian delegation in the ISO meeting as enclosed at Annex-VII of agenda and appreciated the active contribution of Indian delegation in the ISO meeting. The Committee approved the recommendations of Indian delegation as given in the report and decided as under:

1. to support appointment of Dr. Jose David from India (member of FAD 6 in personal capacity) as Convenor of ISO/TC 34/SC 8/Ad hoc Group on Tea bags;
2. to nominate Dr. Bhawana (Member Secretary, FAD 6) as Convenor Support Team;
3. to nominate Dr. Sangeeta Chadda, HUL, Mumbai and Mr. Arijit Raha, ITA, Kolkata as Indian experts in ISO/TC 34/SC 8/Ad hoc Group on Tea bags;
4. to nominate following Indian experts in newly created adhoc groups/WGs under SC 8:

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| Ad hoc group for Review of the Scope of ISO/TC 34/SC 8 ‘Tea’ | i) Dr. Bhawana, Member Secretary, FAD 6  ii) Dr. José David (member of FAD 6 in personal capacity)  iii) Dr. Arijit Raha, ITA, Kolkata |
| Ad hoc group for ‘Instant tea in solid form — Specification’ | i) Dr. José David (member of FAD 6 in personal capacity)  ii)Dr. Devendra J. Haware, CFTRI, Mysore  iii) Mr. Venkatesh Sosle, TCPL, Bangalore |

1. to request UPASI to provide sample/data for development of ISO Standard on ISO/CD 20680 ‘White tea — Definition and basic requirements’;
2. to cast India’s vote as approve for ISO/FDIS 18449 ‘Green tea — Vocabulary’;
3. to submit a new work item proposal to SC 8 for development of ISO Standard on ‘Good manufacturing practices for tea sector’. The Committee decided to assign the task to prepare the proposal from India to newly formed WG on ‘GMP for tea’ (please also see Committee decision under **Item 4 Sl. No. 4**).

**ITEM 7 ANNUAL CALENDAR OF TECHNICAL COMMITTEE MEETINGS**

The Committee decide to fix its next meeting in April 2025 in Delhi in physical mode.

**ITEM 8 ANY OTHER BUSINESS**

# There being no other business, the Committee ended with a vote of thanks to the Chair and members.

**ANNEX-I**

**ATTENDANCE SHEET**

**Twenty Third Meeting of Stimulant Foods Sectional Committee, FAD 6**

**Date:**12 November 2024 **Mode:** Virtual Mode

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| **Sl. No.** | **Organization** | **Representative** |
|  | **CHAIRPERSON**  **Tea Board India, Kolkata** | Mr. S. Soundararajan |
|  | CSIR-Central Food Technological Research Institute, Mysore | Dr. Pushapa S. Murthy |
|  | Confederation of Indian Food Trade and Industry, New Delhi | i) Ms. Ranjeet Kaur  ii) Ms. Varsha Yadav |
|  | Confederation of Indian Industry, New Delhi | Ms. Shipra Sehgal |
|  | Coffee Board, Bengaluru | i) Dr. Mandappa I. M.  ii) Dr. Tiluttama Mudoi |
|  | Hindustan Unilever Limited, Mumbai | Dr. Sangeeta Chadha |
|  | In Personal Capacity | Dr. P. Jose David |
|  | Indian Tea Association, Kolkata | Mr. Arijit Raha |
|  | Nestle India Limited, Gurugram | Dr. Dicksha Mathur |
|  | Tata Consumers Products Limited, Bengaluru | i) Mr. Venkatesh Sosle  ii) Dr. K. N. Manikandan |
|  | Tea Association of India , Kolkata | Mr. Prabir Kumar Bhattacharjee |
|  | Tea Board, Kolkata | i) Dr. Mahipal Singh  ii) Dr. Anirban Basu Majumder |
|  | The Central Arecanut and Cocoa Marketing and Processing Co-operative Limited, Mangalore | Mr. Srinivas K |
|  | Tocklai Tea Research Institute - Tea Research Association, Jorhat | Dr. Santanu Sabhapondit |
|  | UPASI Tea Research Foundation, Coimbatore | i) Dr. R. Victor J. Ilango  ii) Dr. Boophathiraj |
|  | FAD, BIS, New Delhi | Dr. Bhawana, Scientist D (Member Secretary, FAD 6) |

**Special Invitees:**

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| **Sl. No.** | **Organization** | **Representative** |
| 1. | Birla Institute of Technology and Science, Pilani | Dr. Paul Atish Tulshiram |

**Organizations who did not attend the 23rd meeting of FAD 6:**

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| 1. | Consumer Research, Education, Action, Training and Empowerment , Tamil Nadu |
| 2. | Directorate of Cashewnut and Cocoa Development, Cochin |
| 3. | Food Safety and Standards Authority of India, New Delhi |
| 4. | National Tea Research Foundation, Kolkata |