**BUREAU OF INDIAN STANDARDS**

# RESOLUTIONS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name of the Committee** | **No. of Meeting** | **Date** | **Time** | **Venue** |
| Pesticide Residues Analysis Sectional Committee, FAD 27 | Tenth | 27 August 2024 (Tuesday) | 10 30 h | **Virtual Mode**  Through Webex |

|  |  |
| --- | --- |
| **CHAIRPERSON:**  **Dr. K. K. Sharma**  Former Network Coordinator  All India Network Project on Pesticide Residues  Indian Agricultural Research Institute  New Delhi - 110012 | **MEMBER SECRETARY:**  **Ms. Lavika Singh**  Scientist-C  Food & Agriculture Department,  Bureau of Indian Standards,  New Delhi |

*Attendance of the meeting is placed at Annex I*

**0.1 Welcome by BIS Secretariat**

Ms. Lavika Singh, Scientist-C/ Deputy Director, Food & Agriculture Department, BIS extended a warm welcome to the chairperson and members to the 10th meeting of FAD 27. The secretariat urged the members for fruitful and amicable discussions on the issues raised in the agenda for development of new standards on pesticides residue analysis.

**0.2 Opening Remarks by the Chairperson, FAD 27**

Dr. K.K. Sharma, Chairperson, FAD 27 extended a warm welcome to the members to tenth meeting of FAD 27. Dr. K.K. Sharma appreciated the work done by panels under FAD 27. Dr. Sharma highlighted that for completion of tasks/ issues raised in agenda, it is very important to have technical deliberations in committee as well as in Panels. He emphasized that panel should meet more frequently for expedition of tasks allocated.

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

The committee accepted the comments received from Dr. Rajesh R Nair and modified the minutes of its 9th meeting held on 17 May 2024. The committee directed secretariat to circulate the modified minutes to the committee.

**ITEM 2 PLANNING FOR THE 2024-25**

**2.1 Rolling Annual Action Plan for 2024-25**

The committee noted the annual action plan (AAP) for the year 2024-25 prepared by Member Secretary, FAD 27 attached at Annex I of Agenda and requested members to expedite the task allocated to them, for timely completion of projects specified in AAP.

**2.2** **Annual Calendar of Technical Committee Meetings**

The frequency of technical committee meetings is increased to quarterly meetings as far as possible. The tentative meeting calendar prepared by the committee for FY 2024-25 is placed below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Planned frequency (Months)** | **May 2024** | **August 2024** | **November 2024** | **February 2025** |
| **4** | **17 May 2024**  (EIA, Kochi) | **27 August 2024**  (BIS, New Delhi) | **3rd week of November** at PBTI, Mohali | **UPASI**  Coonoor, Tamil Nadu |

**2.3** The committee noted that BIS is encouraging Sectional Committees to take up R&D project either on standardization on new subject or for revision of existing standard on the basis of empirical data and scientific insights. The committee reviewed the revised R&D Guidelines of BIS, which involves development of term of reference for inviting applications for taking up R&D Projects proposed by the sectional committee.

**ITEM 3 SCOPE, ACTIVITIES & COMPOSITION OF FAD 27**

**3.1 Scope & Activities of the Committee**

The committee noted the updated scope of FAD 27 enclosed at Annex III of Agenda.

**3.2 Composition of the Committee**

**3.2.1** The committee decides to withdrawn of the following organization due to non-up-dation of nominations in-spite of repeated reminders:

1. Punjab Agricultural University, Ludhiana (AICRP Centre) specifically from Pesticides Residue Centre; and
2. University of Agriculture Sciences, Raichur.

**3.2.2** The committee decides to co-opt ICAR-CFTRI, Mysore and Kerala Agriculture University, Thrissur.

**3.2.3** The committee reviewed the composition of various panels under FAD 27 given at Annex V of Agenda and decides to change the designation of panels and working groups as per latest BIS guidelines. Further, the committee decides to revamp all the panel and working groups in the committee on the basis of participation of experts in the panel/WGs. The modifies Panel and WGs is given in Annex II:



**ITEM 4 REVIEW OF INDIAN STANDARDS**

**4.1** The committee noted that information mentioned at 4.1 of Agenda regarding review of Indian Standards which are due review under five years’ criteria.

**4.2** The Committee noted the list of Indian Standards which are due for review in 2024-25, mentioned at item 4.2 of agenda and decided as under:

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **IS Number** | **IS Title** | **Decision** |
|  | IS 10169 : 1982 | Methods for determination of carbaryl residues in fruits and vegetable | Reaffirm |
|  | IS 10629 : 1983 | Methods for determination of aldicarb residues in crops, soil and water |
|  | IS 10630 : 1983 | Methods for determination of methyl parathion residues in foods |
|  | IS 11020 : 1984 | Methods for determination of carbofuran residues in crops, soil and water |
|  | IS 11021 : 2004 | Methods for determination of dimethoate residues in food commodities (First Revision) |
|  | IS 11301 : 1985 | Methods for determination of phosalone residues in food commodities |
|  | IS 11374 : 1985 | Method for determination of monocrotophos residues in foods |
|  | IS 11773 : 2003 | Methods for determination of ethion residues in food commodities (First Revision) |
|  | IS 11774 : 1986 | Method for determination of dichlorvos residues in food commodities |
|  | IS 12335 : 1988 | Method for determination of propoxur residues in food commodities |
|  | IS 12336 : 1988 | Method for determination of diazinon residues in food commodities |
|  | IS 12365 : 1988 | Method for determination of chlorpyrifos residues in food commodities |
|  | IS 12609 : 1989 | Pesticides - Determinationof residues in foods - Fenthion |
|  | IS 12610 : 1989 | Pesticides - Determination of residues in foods - Phosphamidon |
|  | IS 12611 : 1989 | Pesticides - Determination of residues in foods and water - Endosulfan |
|  | IS 12616 : 1989 | Pesticide residues in food scypermethrin, deltamethrin, fenvalerate and permethrin - Method for determination |
|  | IS 13829 : 1993 | Pesticide - Method for determination of residues in agricultural and food commodities, soil and water - Atrazine and simazine |
|  | IS 13830 : 1993 | Pesticide - Method for determination of residues in agricultural and food commodities, soil and water - Captafol |
|  | IS 13831 : 1993 | Pesticide - Method for dbtermination of residues in agricultural and food commodities, ,soil and water - Acephate and its toxic metabolite, methamidofos |
|  | IS 13832 : 1993 | Pesticide - Method for determination of residues in agricultural and food commodities, soil and water - Dithiocarbamates |
|  | IS 14161 : 1994 | Pesticide - Determination of metalaxyl residues in agricultural, food commodities, soil and water |
|  | IS 14162 : 1994 | Pesticide - Determination of fosetylAl residues in agricultural and food commodities |
|  | IS 14311 : 1995 | Determination of lindane (GammaBHC) residues in agricultural and food commodities |
|  | IS 14437 : 1997 | Method for determination of quinalphos residues in agricultural and food commodities |
|  | IS 14626 : 1999 | Method for determination of total bromide residues in grains and food commodities fumigated with methyl bromide |
|  | IS 14627 : 1999 | Method for determination of carbendazim residues in agriculture and food commodities |
|  | IS 14628 : 1999 | Method for determination of chlorinated pesticide residues in agricultural and food commodities by multiple residues technique |
|  | IS 14629 : 1999 | Method for determination of dicofol residues in agricultural and food commodities |
|  | IS 14857 : 2000 | Method for determination of 2, 4 - D residues in agricultural and food commodities |
|  | IS 5863 : 1985 | Methods for determination of malathion residues in food commodities (First Revision) |
|  | IS 5864 : 1983 | Methods for determination of DDT residues in food commodities (First Revision) |
|  | IS 5952 : 1970 | Method for determination of parathion residues |
|  | IS 6169 : 1983 | Methods for determination of BHC (HCH) residues in food commodities (First Revision) |
|  | IS 11380 : 1985 | Methods of sampling for determination of pesticide residues in agricultural and food commodities, | Reaffirm and revise |

**4.3 Revision of Pre 2000 Indian Standards**

**4.3.1** The Committee reviewed the list of all Pre 2000 Standards under FAD 27. Following deliberations, the committee decided that the test methods on single residue analysis may be withdrawn upon publication of multi residue analysis methods being developed by various panels under FAD 27. Further, the committee decided that while developing new standard on multi residue analysis methods, the panel will identify the existing Indian Standards that will be superseded by new standard.

**ITEM 5 APPROVAL FOR WIDE CIRCULATION**

**5.1 Method for Determination of Polar Pesticides in Foods or Raw Commodities of Plant Origin by Liquid Chromatography-Triple Quadrupole Mass Spectrometry [Doc. No. (25132)]**

The committee noted the information on draft standard ‘Method for Determination of Polar Pesticides in Foods or Raw Commodities of Plant Origin by Liquid Chromatography-Triple Quadrupole Mass Spectrometry’ [Doc. No. (25132)] and decided to issue draft standard into wide circulation for a period of 60 days for eliciting public comments.

**5.2 Multiresidue method for determination of pesticide residues in milk and milk products by GC-MS/MS and LC-MS/MS [Doc. No. (25133)]**

The committee noted the information and directed FAD 27/Panel VII to compare the research paper on Multiresidue method of milk and milk products by GC-MS/MS AND LC-MS/MS [Doc. No. (25133)] shared by the Chairperson and incorporate changes in the draft standard. After incorporating any necessary changes based on this comparison, the revised draft will be circulated as wide circulation draft for a period of 60 days after seeking Chairperson’s approval.

**ITEM 6 R&D PROJECTS TO BE TAKRN UP BY THE COMMITTEE**

**6.1 Development of test method for multiresidue analysis of pesticides residue in oils**

The committee noted the information and decided to finalize TOR ‘Multi-Lab validation of test method for Multiresidue analysis of pesticides residue in oils’ received from Dr. PG Shah and uploaded on the BIS website for inviting proposals for R&D Project. FAD 27 nominated Dr. PG Shah, In personal capacity and Dr. Anoop Krishnan, EIC for evaluation of proposals for R&D Project.

**ITEM 7 DRAFT STANDARDS UNDER DEVELOPMENT**

**7.1 Revision of IS 11380: 1985 ‘Methods of sampling for determination of pesticide residues in agricultural and food commodities’**

The committee noted the information and directs Dr. Shabeer to highlight the changes incorporated in draft revision of IS 11380: 1985 ‘Methods of sampling for determination of pesticide residues in agricultural and food commodities’ placed at Annex X of Agenda and decided to issue the draft revision for wide circulation for a period of 60 days for eliciting public comments.

**7.2 Multiresidue method for pesticides residue in fruits and vegetables**

The committee noted the information and directed Dr. J. K. Dubey, Convenor of FAD27/Panel I, to submit a draft on the multiresidue method for pesticide residues in fruits and vegetables within one month. Upon receiving the Chairperson’s approval, the draft will be circulated as a preliminary draft (p-draft) for a period of 21 days for inviting the comments from committee members.

**7.3 FAD 27/Panel II ‘Spices and Nuts’**

**The committee reviewed the draft standard shared by Dr. Ramesh Babu,** Convenor of FAD27/Panel II vide mail dated 24 August 2024 and directed FAD27/Panel II to modify the draft standard to remove the brand names, editorial mistakes etc and finalize the draft standard for circulation to committee members expeditiously.

**7.4 FAD 27/Panel VI ‘Honey and Honey products’**

The committee noted the information and decided to take a R&D project on multi-lab validation of the test method. Further, FAD 27 directs Dr. Ajit Dua, Convenor, FAD 27/Panel VI to prepare a TOR on Multi-Lab Validation of test method for multiresidue analysis of pesticides in Honey and Honey products for inviting proposal for R&D Project. Dr. Dua further informed that the SOP developed by Project Coordinating Cell, AINP on Pesticide Residues will be shared during next two weeks by the Network Coordinator for further improvement in the existing method for the estimation of pesticide residues in honey.

**7.5 FAD 27/Panel IX ‘Single Pesticide Residue Analysis’**

The committee noted the information and directed Dr. Shabeer Ahammed, Convenor, FAD27/Panel IX to finalize the draft on the test method for determination of Glyphosate, its metabolites and related compounds by LC-MS and send to member secretary so that it may be circulated as a preliminary draft (p-draft) for a period of 21 days after seeking Chairperson’s approval.

**ITEM 8 NEW SUBJECT FOR STANDARD FORMULATION**

**8.1 Draft Standards on Determination of Paraquat and Diquat Herbicide residues in Foods or Raw Commodities of Plant Origin by Liquid Chromatography-Triple Quadrupole Mass Spectrometry**

The committee noted the information and decided to circulate the draft method on determination of paraquat and diquat herbicide residues in foods or raw commodities of plant origin by liquid chromatography-triple quadrupole mass spectrometry, prepared by FAD 27/Panel IX as a preliminary draft (p-draft) for a period of 21 days for inviting comments from committee members.

**ITEM 9 ANY OTHER BUSINESS**

There being no any other business for discussions, the meeting ended with a vote of thanks by secretariat to the Chairperson FAD 27 and committee members.

**ANNEX I**

Attendance Sheet

Pesticide Residues Analysis Sectional Committee, FAD 27

**Date:** **27 August 2024 Venue: BIS, New Delhi**

|  |  |  |  |
| --- | --- | --- | --- |
|  | In Personal Capacity | Dr. K. K. Sharma | kksaicrp@yahoo.co.in |
|  | Anand Agricultural University, Anand | Dr. K. D. Parmar | drkdp28@gmail.com |
|  | Export Inspection Council of India, New Delhi | Dr. Rajesh R | eia-chennai.3@gov.in |
|  | ICAR - Central Institute for Fisheries Technology, Kochi | Ms. Priya E.R | priyaer@gmail.com |
|  | ICMR - National Institute of Nutrition, Hyderabad | Dr. S N Sinha | sukeshnr\_sinha@yahoo.com |
|  | IDMA Laboratories Limited, Chandigarh | Dr. Indra Rai | vp.tech4@idmagroup.co.in |
|  | Indian Institute of Horticultural Research, Bengaluru | Dr. Partha Choudhury | partha.choudhury1@icar.gov.in |
|  | Marine Products Export Development Authority, Kochi | Mrs. Aneesa T A | aneesa@mpeda.gov.in |
|  | NDDB, Anand | Dr. Rajesh Nair | rajeshnair@nddbcalf.com |
|  | National Institute of Plant Health Management, Hyderabad | Dr. Jaya Devi | jaya.maisnam@gov.in |
|  | National Research Centre for Grapes, Pune | Dr. Ahammed Shabeer TP | shabsnrcg@gmail.com |
|  | Punjab Agricultural University, Ludhiana | Dr. Amarjeet Kaur | amarjit@pau.edu |
|  | Punjab Biotechnology Incubator, Mohali | Dr. Ajit Dua | pbti2005@yahoo.com |
| Dr. Sanjivan Alkesh | sanjivan.bahman@punjab.gov.in |
|  | Spices Board India, Kochi | Dr. Ramesh Babu | rameshbn1@gmail.com |
|  | Tea Board, Kolkata | Dr. Mahipal Singh | mpsteaboard@gmail.com |
|  | Vimta Labs Limited, Hyderabad | Dr. Jagadeesh Kodali | jagadeesh.kodali@vimta.com |
|  | In Personal Capacity | Dr. J. K. Dubey | jkdubey14@yahoo.com |
|  | In Personal Capacity | Dr. Soudamini Mohapatra | soudamini.prl@gmail.com |
|  | In Personal Capacity | Dr. Abhay Ekbote | abhaypm56@gmail.com |
|  | In Personal Capacity | Dr. P. G. Shah | paresh243@yahoo.co.in |
|  | Food & Agriculture Department, BIS, New Delhi | Ms. Lavika Singh  Scientist – C | Fad27@bis.gov.in |
| **Invitee** | | | |
| 22. | NDDB, Anand | Ms. Swati Patil | sspatil@nddbcalf.com |