

BUREAU OF INDIAN STANDARDS

MINUTES

Name of the Committee	No. of Meeting	Day	Date	Time	Venue
Pesticides Sectional Committee, FAD 1	19 th	Friday	21 July 2023	1030 hrs	Online Meeting

CHAIRPERSON:

Dr. J. P. Singh

Plant Protection Adviser,
Dte. of Plant Protection, Quarantine & Storage,
Deptt. of Agriculture, Co-op and Farmers Welfare,
Ministry of Agriculture & Farmers Welfare, Faridabad

MEMBER SECRETARY:

Mr. Kuldeep Mittal

Scientist-B/ Assistant Director
Food & Agriculture Deptt.
Bureau of Indian Standards
New Delhi

ATTENDANCE SHEET – Please see **Annex A** (page 10-11)

ITEM 0 GENERAL

0.1 Welcome by Member Secretary, FAD 1

The member secretary, FAD 1 Mr. Kuldeep Mittal welcomed the Chairperson and esteemed committee members in 19th meeting of Pesticides Sectional Committee, FAD 1. Mr. Mittal appreciated the work done by the various panel members since the last meeting and urged for fruitful and conclusive deliberation on the issues raised in the agenda.

0.2 Opening Remarks by the Chairman

Dr. J P Singh, Plant Protection Adviser and Chairman, Pesticides Sectional Committee, FAD 1 welcomed all the members of the Committee for participating in its 19th meeting. In his opening remarks he has stressed upon the importance of development of quality specifications of pesticides & its formulations and stressed upon the need to develop Indian Standards on all the registered pesticides including bio pesticides in the country. Dr J P Singh informed that 330 pesticides molecules are registered along with more than 970 formulations for use in the country whereas only 307 BIS are published so far for the quality control of pesticides. He has emphasized the need of new specifications and suggested that unified efforts should be made to achieve this target. He further requested the members for active participation in the deliberations and strive to resolve the comments received on the various documents. The Chairman also suggested convening of the next meeting of the committee in the stipulated time so as to complete the work on the pending documents and take up new subjects for standardization.

ITEM 1 CONFIRMATION OF THE MINUTES OF THE EIGHTEENTH MEETING

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1.1 As no comments were received on minutes of the 18th meeting of Pesticides Sectional Committee, FAD 1 held on 21 March 2023 as circulated vide our email dated 19 April 2023, the committee confirmed the minutes.

ITEM 2 NEW PROCESS REFORMS IN STANDARDIZATION

2.1 With the objective to inform the committee members regarding newly instituted process reforms in standardization, secretariat delivered a presentation on the subject. The process reforms by BIS were highly appreciated process reforms introduced in national standardization by BIS.

2.2 The committee noted the annual action plan (AAP) for the year 2023-24 prepared by Member Secretary, FAD 1 attached at Annex II of agenda and requested members to expedite the task allocated to them, for timely completion of projects specified in AAP.

2.3 The committee decided to hold 3 Committee Meetings in year 2023-24 as under:

- i) First Meeting – 21 July 2023 (current meeting)
- ii) Second Meeting – Last week of November 2023
- iii) Third Meeting – 2nd week of March 2024

Further, the committee directed panels under FAD 1 to hold panel meetings as and when required. In case of urgency, the committee will also hold its fourth meeting, if required.

2.4 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. Accordingly, the committee decided to seek interest of the member organizations through mail.

2.5 The committee requested all the members to provide suggestive list of national and international events to be participated within a period of 30 days of circulation of minutes, which further will be finalized by Chairperson, FAD 1 in consultation with BIS secretariat.

2.6 The Chairperson, FAD 1 requested all the members to suggest scientific journals and periodicals to be subscribed for the undertaking standardization in the field of pesticides, within a period of 30 days of circulation of minutes, which further will be finalized by Chairperson, FAD 1 in consultation with BIS secretariat.

2.7 The committee noted the information mentioned at 2.6 of agenda. In order to enhance this pool of experts, the committee requested all members to provide an exhaustive list of expert organizations/ industry and individual experts along with their contact details within a period of 30 days of circulation of minutes to the secretariat.

ITEM 3 SCOPE, ACTIVITIES & COMPOSITION OF FAD 1

3.1 In 19th meeting of FAD 1, the committee noted the scope and programme of work placed at Annex IV of agenda.

3.2 Review of the Composition of the Technical Committee, FAD 1

3.2.1 In the 19th meeting, the committee deliberated on the Task 714 and Annex V placed at agenda item 3.2 and decided as under:

1. The committee decided to withdraw the membership of following members:
 - a) Consumer Guidance Society of India, Mumbai
 - b) Food Safety and Standards Authority of India, New Delhi
 - c) ICAR - Indian Agricultural Research Institute, New Delhi
2. The committee decided to retain the following members in FAD 1 due to their active participation:
 - a) All India Biotech Association, New Delhi
 - b) Crop Care Federation of India, New Delhi
3. The committee decided to seek the fresh nominations from following organization:
 - a) Institute of Pesticide Formulation Technology, Gurugram

3.2.2 In the 19th meeting, the committee deliberated on the Task 715 and Annex V placed at agenda item 3.2 and decided to withdraw the membership of following organizations due to non-participation in three meetings of FAD 1:

- a) Indian Institute of Packaging, Mumbai
- b) Ministry of Agriculture, Department of Agriculture, Chennai
- c) Confederation of Indian Industry, New Delhi

3.2.3 Further, the committee recommended Food and Agriculture Division Council (FADC) to co-opt the following organizations on FAD 1:

- a) Tea Board of India
- b) Spices Board of India
- c) The Federation of Indian Chambers of Commerce & Industry

ITEM 4 INDIAN STANDARDS PUBLISHED

4.1 In the 19th meeting of FAD 1 held on 21 July 2023, the committee noted the information placed under agenda item 1.1.

ITEM 5 FINALISATION OF DRAFT INDIAN STANDARDS

5.1 Doc. No. FAD 1(18728) C Draft Indian Standard – Gibberellic Acid L – Specification

In 17th meeting, the committee decided to incorporate the comments in the above document which are accepted by the committee placed at Annex III of the agenda. Also, the committee requested CIL to validate the test method for determination of active ingredient using phosphoric acid in place of sulphuric acid.

In the 18th meeting, Mr. Subhash Chaudhary, Joint Director (Chem.), CIL informed that the work is under progress and the test report would be submitted to FAD soon.

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In the 19th meeting, Mr. Subhash Chand from Central Insecticides Laboratory, Faridabad informed the committee that the method given in the above document is not valid. Also, he informed that the active ingredient in gibberellic acid, liquid cannot be determined as per the method given in IS 18122 – Gibberellic acid, technical – Specification. So, the committee directed FAD secretariat to drop the document number for gibberellic acid, liquid and to seek the valid test method from the relevant manufacturer. Therefore, Secretariat of CIB & RC may provide the applicant granted registration u/s 9(3) for Gibberellic acid Liquid formulation so as to ascertain the analytical methodology adopted for determination. Further, the analytical test report, validation report furnished at the time of application shall also be furnished.

**5.2 Doc. No. FAD 1 (19262) C Draft Indian Standard – DDT, Technical – Specification
and**

**5.3 Doc. No. FAD 1(19284) C Draft Indian Standard – DDT water dispersible powder –
Specification**





In 17th meeting, the committee accepted all the comments received from Mr. C V Rao as enclosed in Annex VII of the agenda of the 17th meeting. The committee decided to incorporate GC method for determination of active ingredient and directed member secretary to communicate with HIL to seek the GC method.

In 18th meeting, the committee again directed to BIS Secretariat to communicate with HIL to seek the GC method.





As per the decision of the committee, the communications were sent to Dr. Rajender Thappar from HIL to provide the GC method for determination of active ingredient in DDT. No response was received till 19th meeting.

In 19th meeting, the committee again directed BIS Secretariat to communicate with HIL to seek the GC method.

5.4 In the 19th meeting, the committee approved the recommendation provided by the FAD 1/Panel VI placed at agenda item 5.4 and finalized the following documents for publication after incorporating the comments placed the column 5 of the table below. Moreover, a single method of analysis for both ingredients of formulations mentioned at Sl. No. 1 & 3 submitted by M/s Parijat Industries India Pvt. Ltd were verified at Central Insecticides Laboratory and results found to be reproducible, hence, accepted as alternate method of analysis.

Sl. No.	Doc. No.	Title	WC document	Comments received
1.	FAD 01(18799)C	Draft Indian Standard – Fipronil + Acetamiprid suspension concentrate – Specification	 FAD 1(18799).pdf	 FAD 1(18799)C fipronil + acetamipr
2.	FAD 01(18801)C	Draft Indian Standard – Isoprothiolane + Fipronil emulsifiable	 FAD 1(18801).pdf	 FAD 1(18801)C_ isoprothiolane + fip

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
		concentrate Specification	–		
3.	FAD 01(18807)C	Draft Indian Standard – Fipronil Thiamethoxam suspension concentrate – Specification	– +	 FAD 1(18807).pdf	 FAD 1(18807)C_ fipronil + thiamethc
4.	FAD 01(18810)C	Draft Indian Standard – Lambdacyhalothrin Thiamethoxam ZC Specification	– +	 FAD 1(18810).pdf	 FAD 1(18810)C_ lambdacyhalothrin -







5.5 Doc. No. FAD 01 (19490) C Draft Indian Standard – Fipronil, technical – Specification

In the 19th meeting, the committee approved the recommendation provided by FAD 1/Panel VI placed at agenda item 5.5 and finalized the document for publication by incorporating the changes placed under agenda item 5.5 that are only accepted by the panel.

ITEM 6 DRAFT INDIAN STANDARDS FOR WIDE CIRCULATION

6.1 In the 19th meeting, the committee deliberated on agenda item 6.1 and decided as under:

Sl. No.	Doc. No.	Title	Status	Decision of the committee
1.	FAD 1(20171)P	Ametoctradine + Dimethomorph Suspension Concentrate – Specification	The modified document is placed at Annex VII below:  Annex VIII_Ametoctradin + The validation report is placed at Annex IX below:  Annex IX_Ametoctradin + C	The committee approved the recommendation provided by FAD 1/Panel VI placed at agenda item 6.1, Sl. No. 1 and decided to circulate the document into wide circulation for 60 days for public comments. The comments received on the document may be resolved in the same panel and may be placed before the committee.
2.	FAD 1(20175)P	Metrafenone Suspension Concentrate – Specification	The modified document is placed at Annex X below:	The committee approved the recommendation provided by FAD 1/Panel VI placed at agenda item 6.1, Sl. No. 2 and

			 <p>Annex X_Metrafenone Susç</p> <p>The validation report is placed at Annex XI below:</p>  <p>Annex XI_Metrafenone Sus</p>	<p>decided to circulate the document into wide circulation for 60 days for public comments. The comments received on the document may be resolved in the same panel and may be placed before the committee.</p>
3.	FAD 1(20108)P	Pyraclostrobin CS – Specification	<p>The modified document is placed at Annex XII below:</p>  <p>Annex XII_Pyraclostrobin 1C</p> <p>The validation report is at Annex XIII placed below:</p>  <p>Annex XIII_Pyraclostrobin 1</p>	<p>The committee approved the recommendation provided by FAD 1/Panel VI placed at agenda item 6.1, Sl. No. 3 & 4. As per the recommendation of the panel, the committee suggested the manufacturer to introduce the single solvent system in both the specifications. The committee decided to incorporate Acetonitrile + Water + Formic acid (as used in the draft specification of pyraclostrobin CS) as mobile phase in the draft specification of thiophante methyl + pyraclostrobin FS and requested the manufacturer to submit the validation report. Meanwhile, the committee decided to circulate the document into wide circulation for 60</p>
4.	FAD 1(20165)P	Thiophanate methyl + Pyraclostrobin flowable suspension concentrate – Specification	<p>The modified document is placed at Annex XIV below:</p>  <p>Annex XIV_Thiophanate me</p> <p>The validation report is placed at Annex XV below:</p>  <p>Annex XV_Thiophanate me</p>	<p>decided to circulate the document into wide circulation for 60</p>

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				days public comments. The comments received on the documents may be resolved in the same panel and may be placed before the committee.
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6.2 In the 19th meeting, the committee approved the recommendation provided by FAD 1/Panel I placed at agenda item 6.2 and decided to circulate the draft revision of the following documents in wide circulation for 60 days for public comment in latest style and format of Indian Standard with incorporation of editorial changes only:

Sl. No.	IS No.	Title
1.	IS 14185 : 1994	Pesticide - Diflubenzuron, technical - Specification
2.	IS 14186 : 1994	Pesticide - Diflubenzuron WP - specification
3.	IS 13788 : 1993	Pesticide - Kitazin, technical - Specification
4.	IS 13789 : 1993	Pesticide - Kitazin granules - Specification
5.	IS 14249 : 1995	Etofenprox, technical - Specification
6.	IS 14250 : 1995	Etofenprox, EC - Specification
7.	IS 12931 : 1990	Atrazine WP - Specification
8.	IS 13332 : 1992	Pesticide - Metribuzin, technical - Specification
9.	IS 13333 : 1992	Pesticide - Metribuzin WP- Specification

6.3 Review of IS 3898 : 1981 - Specification for zineb, technical

and

6.4 Review of IS 3899 : 1981 - Specification for zineb, water dispersible powders

In the 19th meeting, the committee approved the recommendation of FAD 1/Panel I placed at agenda item 6.3 and 6.4. As per the recommendation, the committee decided to incorporate the method given as per IS 8707 – Mancozeb, technical for determination of active ingredient in IS 3898 and IS 3899 and also, decided to circulate the draft revision of both the documents in wide circulation for 60 days for public comments.

ITEM 7 COMMENTS ON INDIAN STANDARDS

7.1 Comment on IS 4320 : 1982 – Thiram, technical – Specification from M/s Meenakshi Agro Chemicals

In 18th meeting of FAD 1, the committee deliberated in detail on the comment received from M/s Meenakshi Agro Chemicals on IS 4320 to adopt the apparatus given at **A-1.3** of IS 4320 as per CIPAC. The committee decided to seek the inputs from the concerned manufacture of the product regarding the change and directed BIS secretariat to communicate with the manufacturer to seek the inputs.

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As per the decision of the committee, the inputs were sought from the relevant manufacturer of the product.

The inputs received from M/s Swaroop Chemical through Dr. J C Majumdar were placed at Annex XVII of agenda.

In 19th meeting, the committee deliberated on the comments received from M/s Meenakshi Agro Chemicals regarding the change in assembly as per CIPAC method and also, on the response received from M/s Swaroop Chemicals placed at agenda item 7.1.

M/s Swaroop Chemicals responded that *“we have been following BIS method for the last 40 years and we do not have any issue with IS 4320 method. We do have requisite apparatus set up as required in IS 4320 CS₂ evolution method and are quite comfortable with this method. IS 4320 existing apparatus is good enough for accurate result. We don't need to replace the apparatus given as per CIPAC”*.

The committee agreed upon the response from M/s Swaroop Chemicals and decided to retain the assembly as per existing specification. Also, the committee decided to circulate the draft revision of “IS 4320 – Thiram, technical – Specification” in wide circulation for 60 days in latest style and format of Indian Standards keeping the test methods same.

7.2 Comment on IS 17203 : 2019 – Novaluron emulsifiable concentrates – Specification from M/s UPL and M/s ADAMA

In 19th meeting, the committee deliberated on the agenda item 7.2. In the meeting, the Member Secretary informed the committee that in the year 2017, the manufacturer submitted a new proposal for standard formulation for novaluron EC where the acidity proposed was Max, 2.5 percent (w/w) but it was published as Max, 0.5 percent (w/w) by mistake.

Also, Dr. Vandana Seth from CIB&RC informed the committee that the manufacturer applied for approval of new packaging requirement in year 2019 and submitted a self-life data for approval of the same. CIB&RC examined the parameters given in the self-life data and approved the new packaging requirements and the data submitted has acidity range of 2-2.5 percent.

On the basis of above deliberations, the committee decided to raise the issue in the next meetings of Registration Committee. Meanwhile, the committee directed Member Secretary to issue the amendment in wide circulation for 30 days indicating the acidity of Max, 2.5 percent (w/w).

Also, the committee decided that the amendment issued would be withdrawn in case any discrepancies are found in the parameter of acidity during the deliberation in the Registration Committee meetings.

ITEM 8 NEW WORK ITEM PROPOSAL

The committee considered the 249 NWIPs received from Central Insecticides Lab., Faridabad placed at agenda item 8.

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Further, the committee decided to constitute a new panel (FAD 1/Panel VIII) to prioritize these molecules on the basis of their uses with following composition:

- a) Representative from Central Insecticide Board and Registration Committee, Faridabad (Convenor)
- b) Representative from Central Insecticides Laboratory, Faridabad
- c) Representative from RPTL, Chandigarh
- d) Dr. J. C. Majumdar from Crop Care Federation of India
- e) Dr. Arcahana Srivasata from PMFAI
- f) Representative from CLI
- e) Dr. Uday Kumar, *In Personal Capacity*
- f) Mr. C V Rao, *In Personal Capacity (Convenor – FAD 1/Panel VI)*
- g) Member Secretary, FAD 1

The committee deliberated that this new panel will first prioritise the molecule in the lot of ten, then these documents would be circulated as P-Draft among the committee members for 30 days for receiving comments and subsequently, the comments received on the documents would be resolved in FAD 1/Panel VI.

ITEM 9 REVIEW OF INDIAN STANDARDS

The committee noted that the Indian Standards placed under agenda item 9.1 are due for review in 2023-24. The committee decided to reaffirm these Indian Standards while simultaneously requesting the members to examine the standards for proposing any modification, if required. BIS Secretariat was requested to circulate these Indian Standards to members for providing the comments within a month.

9.2 Review of Pre-2000 Indian Standards

The committee noted the information placed under agenda item 9.2.

10 PANELWISE PROGRESS REPORT

10.1 Work under FAD 1/Panel I

The committee noted the information placed under agenda item 10.1.

10.2 Work under FAD 1/Panel III

The committee noted the information placed under agenda item 10.2.

10.3 Work under FAD 1/Panel V

In 19th meeting, the panel informed the committee that total 135 comments were received from Mr. C V Rao on the working draft of IS 6940 and in the last meeting of the panel, only 50 comments were discussed and opined the committee to resolve the remaining comments. On the opinion of the panel, the committee requested the convenor to convene the next meeting of the panel to resolve the remaining comments as soon as possible. Also, the committee authorized the panel for approving the document to circulate into wide circulation as soon as the remaining comments are resolved.

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10.4 Work under FAD 1/Panel VI

The committee noted the information placed under agenda item 10.4.

ITEM 11 TIME AND PLACE FOR THE NEXT MEETING

11.1 The next meeting of the committee would be organized in last week of November 2023.

Annex A

Attendance of 19th Meeting of FAD 1

Sl. No.	Name	Organisation	Contact
1.	Dr. J. P. Singh (Chairperson)	Plant Protection Adviser	ppa@nic.in
2.	Sh. Saurabh Singhal	All Indian Biotech Association, New Delhi	ssinghal@biotech-int.com
3.	Mr. Vipin Saini	Bio Agri Solution Association of India, New Delhi	vipinsaini.india@gmail.com
4.	Dr. Archana Sinha	Convenor – FAD 1/Panel I	archana.sinha@gov.in
5.	Dr. Vandana Seth	Central Insecticide Board and Registration, Faridabad	vandana.seth@nic.in
6.	Dr. K L Gurjar	Central Insecticide Board and Registration, Faridabad	gurjar.kl@gov.in
7.	Mr. Subhash Chaudhary	Central Insecticides Laboratory, Faridabad	subhash.chand69@gov.in
8.	Dr. Sitaram Dixit	Consumer Guidance Society of India, Mumbai	sitaram.dixit@gmail.com
9.	Dr. J C Majumdar	Crop Care Federation of India, New Delhi	drjcmajumdar@gmail.com
10.	Dr. Rakesh Dahiya	Crop Life India, New Delhi	rag@croplifeindia.org
11.	Dr. Sheelendra Pratap Singh	CSIR - Indian Institute of Toxicology Research, Lucknow	sheelendra@iitr.res.in
12.	Dr. Indra Rai	IDMA Laboratories Limited, Chandigarh	commercial@idmagroup.co.in
13.	Dr. D S Sugara	Indian Pest Control Association, New Delhi	dssugara@easycare.org.in
14.	Mrs. T. Sridevi	National Institute of Plant Health Management, Hyderabad	sridevi.tutika@gov.in
15.	Dr Archana Kr Srivastava	Pesticides Manufacturers and Formulators Association of India, Mumbai	drarchanasrivastava7464@gmail.com
16.	Dr. P K Chhuneja	Punjab Agriculture University, Ludhiana	pkchhuneja@pau.edu
17.	Dr. Amit Chaudhary	Punjab Agriculture University, Ludhiana	amitento@pau.edu
18.	Mr. Rohit Singh	Regional Pesticides Testing Laboratory, Chandigarh	rptlchd@yahoo.in
19.	Mr. C V Rao	Personal Capacity	cvrao25@gmail.com
20.	Dr. Uday Kumar	Personal Capacity	udayarch07@gmail.com
21.	Sh. Kailash Diwan	M/s ADAMA India Pvt Ltd	kailashdiwan718@gmail.com

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22.	Dr. Arpita Roy	M/s ADAMA India Pvt Ltd	arpita.roy@adama.com
23.	Mr. Chetan Kumar Joshi	M/s ADAMA India Pvt Ltd	chetan.joshi@adama.com
24.	Mr. Kuldeep Mittal	Member Secretary, FAD 1	fad1@bis.gov.in