



**Indian Council of Agricultural Research**  
(कृषि अभियांत्रिकी प्रभाग / **Agricultural Engineering Division**)  
(कृषि अभियांत्रिकी अनुभाग / **Agricultural Engineering Section**)  
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**Krishi Anusandhan Bhavan - II, Pusa, New Delhi**

F. No. A.Engg.2/2/2023-AE, C.No. 235763

Dated 28<sup>th</sup> August, 2023

To,

**Dr. Suneeti Toteja,**

Scientist - E/Director & Head,

Food and Agriculture Department,

Bureau of Indian Standards, Ministry of Consumer Affairs,

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**Subject: - Approval for Adoption of Draft Indian Standards pertaining to FAD 31 on behalf of Food and Agriculture Division Council, dated 24<sup>th</sup> August, 2023 - reg.**

Sir/Madam,

With reference to your e-mail dated 28<sup>th</sup> August, 2023 from BIS. Approval of Chairman is hereby conveyed for Adoption of Draft Indian Standards of Amendments of FAD 31 (22024, 22025, 22026, 22027, 22028, 22029, 22030, 22031, 22032, 22033, 22034, 22036, 22037) on behalf of the Food and Agriculture Division as given below: -


Sl. No	Document No.	Title
1.	IS 18348 :2023 /ISO 10273 : 2017 FAD 31(22024)	Microbiology of the food chain- Horizontal method for the detection of pathogenic <i>Yersinia enterocolitica</i> (Adoption of ISO 10273: 2017)
2.	IS 18349 (Part 1) : 2023 /ISO 15213-1 : 2023 FAD 31(22025)	Microbiology of the food chain — Horizontal method for the detection and enumeration of <i>Clostridium</i> spp. — Part 1 Enumeration of sulfite-reducing <i>Clostridium</i> spp. By colony- count technique (Adoption of ISO 15213-1 :2023)
3.	IS 18350 (Part 1) : 2023 /ISO 15216-1 : 2017 FAD 31(22026)	Microbiology of the food chain — Horizontal method for determination of Hepatitis A virus and Norovirus using real-time RT-PCR — Part 1 Method for quantification (Adoption of ISO 15216-1 : 2017)
4.	IS 18350 (Part 2) : 2023 /ISO 15216-2 : 2019 FAD 31(22027)	Microbiology of the food chain — Horizontal method for determination of Hepatitis A virus and Norovirus using real-time RT-PCR — Part 2 Method for detection (Adoption of ISO 15216-2 : 2019)
5.	IS 18351 :2023 /ISO/TS 17919	Microbiology of the food chain — Polymerase chain reaction (PCR) for the detection of food-borne

	: 2013 FAD 31(22028)	pathogens — Detection of botulinum type A, B, E and F neurotoxin-producing clostridia ( <i>Adoption of ISO 17919 : 2013</i> )
6.	IS 18352 :2023 /ISO 18593 : 2018 FAD 31(22029)	Microbiology of the food chain — Horizontal methods for surface sampling ( <i>Adoption of ISO 18593 : 2018</i> )
7.	IS 18353 :2023 /ISO 18744 : 2016 FAD 31(22030)	Microbiology of the Food Chain — Detection and enumeration of <i>Cryptosporidium</i> and <i>Giardia</i> in fresh leafy green vegetables and berry fruits ( <i>Adoption of ISO 18744 : 2016</i> )
8.	IS 18354 :2023 /ISO 18867 : 2015 FAD 31(22031)	Microbiology of the food chain — Polymerase chain reaction (PCR) for the detection of food-borne pathogens — Detection of pathogenic <i>Yersinia enterocolitica</i> and <i>Yersinia pseudotuberculosis</i> ( <i>Adoption of ISO 18867: 2015</i> )
9.	IS 18355 :2023 /ISO 19020 : 2017 FAD 31(22032)	Microbiology of the food chain — Horizontal method for the immunoenzymatic detection of staphylococcal enterotoxins in foodstuffs ( <i>Adoption of ISO 19020 : 2017</i> )
10.	IS 18356 (Part 1) : 2023 /ISO 20976-1 : 2019 FAD 31(22033)	Microbiology of the food chain — Requirements and guidelines for conducting challenge tests of food and feed products — Part 1 Challenge tests to study growth potential, lag time and maximum growth rate ( <i>Adoption of ISO 20976-1 : 2019</i> )
11.	IS 18356 (Part 2) : 2023 /ISO 20976-2 : 2022 FAD 31(22034)	Microbiology of the food chain — Requirements and guidelines for conducting challenge tests of food and feed products — Part 2 Challenge tests to study inactivation potential and kinetic parameters ( <i>Adoption of ISO 20976-2 : 2022</i> )
12.	IS 18357 :2023 /ISO 22964 : 2017 FAD 31(22036)	Microbiology of the food chain — Horizontal method for the detection of <i>Cronobacter</i> spp. ( <i>Adoption of ISO 22964 : 2017</i> )
13.	IS 18358 :2023 /ISO 23418 : 2022 FAD 31(22037)	Microbiology of the food chain — Whole genome sequencing for typing and genomic characterization of bacteria - General requirements and guidance ( <i>Adoption of ISO 23418 : 2022</i> )

This issue has been approved by DG, ICAR as Chairman, Food and Agriculture Division Council.

Yours faithfully,

To,  
Smt. Suneeti Toteja  
Secretary, E/ Director (FE)  
FAD, BIS

  
(Panna Lal Singh) 28/07/2023  
Principal Scientist (FE)