



भारतीय मानक ब्यूरो

(उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय, भारत सरकार)

BUREAU OF INDIAN STANDARDS

(Ministry of Consumer Affairs, Food & Public Distribution, Govt. of India)

मानक भवन, 9 बहादुरशाह जफर मार्ग नई, दिल्ली-110002

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi-110002

Phones: 23230131 / 23233375 / 23239402

Website: www.bis.org.in, www.bis.gov.in

DRAFT INDIAN STANDARD IN WIDE CIRCULATION

Reference : FAD 11/T

Date : 07 January 2025

TECHNICAL COMMITTEE : Agricultural Machinery and Equipment, FAD 11

To,

All concerned

Dear Madam/Sir,

The following document has been prepared by the Agricultural Machinery and Equipment Sectional Committee, FAD 11. Please [click here](#) to view the document.

Document Number : FAD 11 (24816) WC

Title of the document : Unmanned aerial spraying systems (Drone Sprayer) - Test procedure

Document Type : New Indian Standard

This document has following salient features which may require specific attention for your valuable comments:

- 1) Unmanned Aircraft System (UAS) is an aerial vehicle without human pilot on board. Also known as Unmanned Aerial Vehicle (UAV) or Remotely Piloted Aircraft (RPA) or Drone. Nowadays Unmanned Aircraft System (UAS) are coming equipped with tanks to carry desired chemicals, along with a spraying mechanism such as nozzles or sprayers to spray those chemicals on the targeted area. This system attached to the UAS is called as Unmanned Aerial Spraying System (UASS) which is a modern technology used in agriculture to apply plant protection products (PPP).*
- 2) Continuous advances in flight control, flight duration, and payload potential have led to increase in usage of UAS for agricultural purpose. The use of Unmanned Aerial Systems (UAS) in agriculture is rapidly evolving, with Unmanned Aerial Spraying Systems (UASS), commonly known as drone sprayers, already being utilized for applying pesticides in various crops across the country*
- 3) This standard is being brought which will cover the terminologies, requirements, and tests to be conducted on Unmanned Aerial Spraying Systems (UASS) for establishing its performance.*
- 4) The standard specifies field measurements of spray deposition to determine the quantity and distribution of spray in a plane surface area in the transverse direction to the flight direction, treated by specific Unmanned Aerial Spraying Systems (UASS) with downward directed application. The standard specifies field measurements of spray deposition to determine the quantity and distribution of spray in a plane surface area in the transverse direction to the flight direction, treated by specific Unmanned Aerial Spraying Systems (UASS) with downward directed application.*

Please examine the document and share your comments regarding further improvement in the document.

Last date for sharing the comments is : 10 March 2025

The comments should be shared in the prescribed template through this portal only; and the comments so received shall be taken up by the Sectional Committee for necessary action. For any other query, please write an email at fad@bis.gov.in to the undersigned at Bureau of Indian Standard, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi.

In case no comments are received, we would presume your approval of the documents. However, in case we receive any comments on the document, the same shall be put up to the Sectional Committee for necessary action.

Thanking You,

**Yours faithfully,
(SUNEETI TOTEJA)
Head (Food and Agriculture Department)
Email: fad@bis.gov.in**



व्यापक परिचालन में मसौदा(दे)

हमारा सन्दर्भ : FAD 11/T

दिनांक : 07-01-2025

तकनीकी समिति : Agricultural Machinery and Equipment Sectional Committee, FAD 11

प्राप्तकर्ता : रूचि रखने वाले सभी निकाय

महोदय/या,

निम्नलिखित मसौदा तैयार किया गया है :

प्रलेख संख्या : FAD 11 (24816) WC

शीर्षक :

कृपया इस/इन मानक(को)/संशोधन(नो) के मसौदे(दो) का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजें कि यदि ये मानक(को) के संशोधन(नो) के रूप में प्रकाशित हो तो इन पर अमल करने में आपके व्यवसाय अथवा कारोबार में क्या कठिनाइयां आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि : 10 March 2025

सम्मतियाँ, यदि कोई हों तो, कृपया यहाँ क्लिक करके ऑनलाइन पोर्टल के माध्यम से ऊपर दी गयी अंतिम तिथि तक दर्ज कराएं।

यह/ये प्रलेख भारतीय मानक ब्यूरो की वेबसाइट www.bis.gov.in पर भी उपलब्ध है/हैं।

धन्यवाद।

भवदीय/भवदिया,
विभाग प्रमुख का नाम : SUNEETI TOTEJA
(Food and Agriculture Department)
ई-मेल : fad@bis.gov.in