

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE & FARMERS WELFARE
DEPARTMENT OF AGRICULTURE & FARMERS WELFARE

RAJYA SABHA
UNSTARRED QUESTION NO-1455
TO BE ANSWERED ON 29/072022

**PROCESSING, STORAGE AND TRANSPORT FACILITY FOR NATURAL
FARMING PRODUCTS**

1455. SHRI JAWHAR SIRCAR:

Will the Minister of AGRICULTURE AND FARMERS WELFARE be pleased to state:

- (a) the steps taken by Government to spread awareness and make available affordable facilities to test the maximum residue level of chemicals in farm produce, as per regulations of the Food Safety and Standards Authority of India (FSSAI);
- (b) the steps taken to set up large-scale and separate processing, storage and transport facilities for the output of natural farming, so that such produce does not get contaminated by the produce of conventional chemical farming; and
- (c) whether careful attention is given to moisture and temperature during storage of pulses which calls for major investments in new technologies?

ANSWER

MINISTER OF AGRICULTURE AND FARMERS WELFARE

(SHRI NARENDRA SINGH TOMAR)

(a) Food Safety and Standards Authority of India (FSSAI) has recognized and notified 224 primary food testing laboratories and 20 referral laboratories across the country. Many of these laboratories possess facility for testing of residues level of antibiotics, pesticides and heavy metals. Any individual can get their food samples tested at these laboratories.

FSSAI is implementing a Central Sector Scheme (CSS) for “Strengthening of Food Testing System in the Country Including Provision of Mobile Food Testing Labs” (SOFTeL). Under one component of this scheme, grant has been provided for procurement of 3 high end equipment to 33 State Food Testing Laboratories(SFTLs). These equipments are meant for testing of residue levels of antibiotics, pesticides and heavy metals as per the regulations of Food Safety and Standards Authority of India.

The pesticide residues in food commodities are regularly monitored since 2005-06 under the “Monitoring of Pesticide Residues at National Level (MPRNL)” sponsored by the Department of Agriculture & Farmers Welfare, Ministry of Agriculture & Farmers Welfare. Under the MPRNL scheme, the samples of vegetables, fruits, spices, herbs, cereals, meat, egg, tea, milk,

fish and marine products, are collected from the retail outlets, agricultural produce marketing committee (APMC) markets, farm gate, organic outlets and surface water/ irrigated water located at different parts of the country by 33 participating laboratories and analysed for the possible presence of pesticide residues by 30 NABL accredited testing laboratories representing Ministry of Agriculture, Indian Council of Agriculture Research (ICAR), Ministry of Health and Family Welfare, Ministry of Environment, Forest and Climate Change, Council of Scientific and Industrial Research (CSIR), Ministry of Chemicals and Fertilizers, Ministry of Commerce and State Agricultural Universities across the country.

(b) and (c) Under National Program for Organic Production (NPOP) there are standards for storage & handling of organic products so that such produce is not contaminated by the produce of conventional chemical farming.

Bureau of Indian Standards (BIS) has published an Indian Standard, IS 16550 (Part 1): 2016 'Organic production system and labelling of organically produced products Part 1 Crop based'. This standard prescribes requirements for organic production system and labelling of products that are crop based, through the process of crop production up to packaging and transport of the final product. A number of Indian Standards prescribe harvesting conditions, storage structures, storage conditions, ripening conditions and transportation codes for various fruits, vegetables and foodgrains. List of Indian Standards published in this area is attached at Annexure.

BIS has also published an Indian Standard, IS 6151 (Part 2):1971 'Storage management code: Part 2 General care in handling and storage of agricultural produce and inputs' which prescribes the general care in handling, during transport, receipt and issue, and storage of agricultural produce including pulses. Safe limit of moisture content for storage of pulses is prescribed in the standard.

Indian Standards on Supply Chain of Perishable Commodities

Sl. No.	IS No.	Title
1.	IS 7192:1974	Guide for storage of citrus fruits
2.	IS 7730:1975	Guide for storage of pears
3.	IS 7731:1975	Guide for storage of peaches
4.	IS 9304:1979	Guide for storage of mangoes
5.	IS 9311:2021	Guide to storage of onions
6.	IS 16119:2013 / ISO 7562:1990	Potatoes - Guidelines for storage in artificially ventilated stores
7.	IS 16120:2013 / ISO 5525: 1986	Potatoes - Storage in the open (In Clamps)

Indian Standards on Guides for Storage and Transport of Fruits and Vegetables

Sl. No.	IS No.	Title
1.	IS 6028:2002 / ISO 931:1980	Green bananas - Guide to storage and transport (Second Revision)
2.	<u>IS 6669: 2001 / ISO 1212:1995</u>	Apples - Guide to cold storage (First Revision)
3.	<u>IS 6670: 2018</u>	Storage of potatoes - Guidelines (First Revision)
4.	<u>IS 7191: 2001 / ISO 5524:1991</u>	Tomatoes - Guide to cold storage and refrigerated transport (First Revision)
5.	<u>IS 7252: 2013 / ISO 2169: 1981</u>	Fruits and vegetables - Physical conditions in cold stores - Definitions and measurement (First Revision)
6.	<u>IS 9303: 1979</u>	Guide for cold storage of table grapes
7.	<u>IS 11966: 1997 / ISO 6663:1995</u>	Garlic - Cold storage (First Revision)
8.	<u>IS 15691: 2006</u>	Guidelines for storage and transportation of bamboo shoot
9.	<u>IS 16118: 2013 / ISO 6665 : 1983</u>	Strawberries - Guide to cold storage

Indian Standards on Storage Management of Foodgrains

Sl. No.	IS No.	Title
1.	IS 609: 2020	Improvement of Existing Structures Used or Intended to be Used for Food Grain Storage — Code of Practice (First Revision)
2.	IS 631: 1979	Specification for outdoor aluminium food grain storage bins (First Revision)
3.	IS 5503: Part 1: 1969	General requirements for silos for grain storage: Part 1 constructional requirements
4.	IS 5503: Part 2: 2020	General Requirements for Silos for Grain Storage Part 2 Grain Handling Equipment and Accessories (First Revision)
5.	IS 5606: 1970	Specification for steel bins for grain storage

Sl. No.	IS No.	Title
6.	IS 6151: Part 1: 2020	Storage Management Code Part 1 Terminology (First Revision)
7.	IS 6151:Part 2: 1971	Storage management code: Part 2 general care in handling and storage of agricultural produce and inputs
8.	IS 6151:Part 3: 1976	Storage management code: Part 3 specific care in handling and storage of agricultural produce and inputs
9.	IS 7147: Part 1: 1973	Specification for steel bins for domestic storage: Part 1 gharelu kothl
10.	IS 7715: 1975	Method for testing suitability of bins for safe storage of food grains
11.	IS 8453: 1977	Code of practice for construction of polyethylene embedded earthen bins for bulk storage of foodgrains
12.	IS 9215: 1979	Specification for outdoor steel bins for foodgrain storage
13.	IS 11396: 1985	Test methods for determination of storability (Safe Storage Life) of foodgrains
14.	IS 11816 (Part 1): 2010/ ISO 6322 Part 1:1996	Storage of cereals and pulses: Part 1 general recommendations for the keeping of cereals (First Revision)
15.	IS 11816 (Part 2): 2009/ ISO 6322 Part 2:2000	Storage of cereals and pulses: Part 2 practical recommendations (First Revision)
16.	IS 11816: Part 3 : 2018 ISO 6322-3:1989	Storage of cereals and pulses: Part 3 control of attack by pests (First Revision)
17.	IS 12529 : 1988	Storage of foodgrains - Storage losses by insects - Methods for estimation
18.	IS 16144 : 2014	Foodgrain storage godowns - Code of practice
19.	IS 7247 : Part 1 : 1974	Code of practice for fumigation of agricultural produce: Part 1 methyl bromide
20.	IS 7247 : Part 3 : 1974	Code of practice for fumigation of agricultural produce: Part 3 aluminium phosphide
21.	IS 7247 : Part 4 : 1975	Code of practice for fumigation of agricultural produce: Part 4 ethylene dichloride and carbon tetrachloride mixture
22.	IS 7247 : Part 5 : 1985	Code of practice for fumigation of agricultural produce: Part 5 general requirements
