

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

**LOK SABHA**  
**UNSTARRED QUESTION NO. 4380**  
TO BE ANSWERED ON THE 28<sup>TH</sup> MARCH, 2023

**STORAGE OF GRAINS**

4380. SHRI VINCENT H. PALA:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री be pleased to state:

- (a) whether the storage of grains after harvest is a problem for the farmers in the country and if so, the details thereof;
- (b) whether the Government has directed the universities and other research institutions for developing innovative ideas and procedures for reducing storage loss of onions in the country; and
- (c) if so, the details thereof?

**ANSWER**

MINISTER OF AGRICULTURE AND FARMERSWELFARE

कृषि एवं किसान कल्याण मंत्री (SHRI NARENDRA SINGH TOMAR)

(a): The Government is implementing Agricultural Marketing Infrastructure (AMI), a sub-scheme of Integrated Scheme for Agricultural Marketing (ISAM) under which assistance is provided for construction of godowns/ warehouses in the rural areas in the States to enhance the storage capacity for agriculture produce. Under the scheme, Government provides subsidy at the rate of 25% and 33.33% on capital cost of the project based on the category of eligible beneficiary. Assistance is available to Individuals, Farmers, Group of farmers/growers, Agri-preneurs, Registered Farmer Producer Organizations (FPOs), Cooperatives, and state agencies etc. The scheme is demand driven.

Since 01.04.2001 and up to 28.02.2023, a total of 42,138 storage infrastructure projects (Godowns), with storage capacity of 740.88 Lakh MT for beneficiaries including farmers have been assisted under AMI sub-scheme in the country.

Further, Government is implementing a Central Sector Scheme Agriculture Infrastructure Fund (AIF) of Rs. 1,00,000 Crore to provide a medium-long term loan facility for investment in viable projects for post-harvest market infrastructure including warehousing facility and community farming assets through interest

subvention and financial support. Under the scheme, a total number of 9215 applications for warehouse facilities have been sanctioned for a total amount of Rs. 8610 Cr.

(b) to (c): As informed by Indian Council of Agricultural Research(ICAR), the Central Institute of Agricultural Engineering (ICAR-CIAE), Bhopal is working on development of storage structures and process technologies for reducing post-harvest losses. The following technologies have been developed:

1. Modular onion storage structure (1 ton and 3 ton capacity) – Technology has been commercialized to M/s. GV Industries, Dhar, Madhya Pradesh
2. Solar PV based cold storage for transient storage of fruits and vegetables
3. Modified atmosphere packaging and structure for different fruits and vegetables
4. Ozone based fumigation system for storage of pulses
5. Sensor based technologies for monitoring grain health during storage
6. Chitosan coated bags for storage of selected foodgrains
7. Flexible PVC storage structure, coupled with Temperature, RH and CO2 sensor based alert system has been developed for on farm storage of food grains, which has the provision of duct, for fumigation and aeration.
8. Vacuum hermetic storage system with sensor based alert system, as an on farm, chemical free, bag storage structure for food grains.

Further, a National Multi-stakeholders Workshop on 'Recent Advances in Processing, Storage, and Marketing of Farm Produce for Agri-business for Small and Marginal Farmers', was organized at ICAR-CIAE Bhopal during December 22–23, 2022, in collaboration with Akshya Krishi Parivar and Bhau Saheb Bhuskute Smriti Lok Nyas, Govind Nagar, Madhya Pradesh. The objectives of the workshop were to share experiences and brainstorm on traditional storage, processing, and value addition techniques and their contemporary relevance; develop a farmer-centric, decentralised storage, processing, value addition, and marketing system; and shift from market-driven agriculture to producer-driven agriculture.

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