

GOVERNMENT OF INDIA  
 MINISTRY OF FOOD PROCESSING INDUSTRIES  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 1976**  
 ANSWERED ON 11<sup>TH</sup> DECEMBER, 2025

**POST-HARVEST LOSSES**

**1976. SHRI BALWANT BASWANT WANKHADE:  
 SHRI RAMASAHAYAM RAGHURAM REDDY:  
 SHRI JOYANTA BASUMATARY:**

Will the Minister of *Food Processing Industries* be pleased to state:

- a) the quantum of post-harvest losses of agricultural and horticultural commodities in the country including in North Eastern regions during the last ten years, year-wise and commodity-wise;
- b) the details of funds allocated and projects supported for the development of post-harvest infrastructure, year-wise and State-wise; and
- c) the new initiatives being planned to significantly expand food processing capacity and modern storage to minimize wastage and increase farmers' income?

**ANSWER**

THE MINISTER OF STATE FOR FOOD PROCESSING INDUSTRIES  
 (SHRI RAVNEET SINGH)

(a) To assess the post-harvest losses in the country, Ministry of Food Processing Industries (MoFPI) had commissioned two studies through Indian Council for Agricultural Research – Central Institute of Post-Harvest Engineering & Technology (ICAR-CIPHET), 2015 with reference year 2012-14 and NABARD Consultancy Service Pvt. Ltd (NABCONS), 2022 with reference year 2020-22.

Since, the ICAR-CIPHET study had not captured category-wise and State-wise quantity losses of agricultural commodities whereas in the NABCONS study the total estimated percentage loss at the State level had been reported. Thus, the State-wise information of estimated percentage loss is placed at **Annexure-I** and the category wise quantity loss of Post-Harvest losses of various agricultural produce in India is as under:

| Crops/ Commodities                                  | Estimated Quantity Loss                  |
|---|--|
|   | As per NABCONS study (million MT) (2022) |
| Cereals   | 12.49                                    |
| Pulses  | 1.37                                     |
| Oil Seeds   | 2.11                                     |
| Fruits  | 7.36                                     |
| Vegetables  | 11.97                                    |
| Plantation Crops (including sugarcane and & Spices) | 30.59                                    |
| Livestock produce (milk, meat and fish)             | 3.01                                     |
| Egg*  | 7363                                     |

\*For eggs, production in million numbers and price per eggs were taken

(b) & (c) MoFPI through implementation of various initiatives and schemes viz. Pradhan Mantri Kisan SAMPADA Yojana (PMKSY), Prime Minister Formalization of Micro Food Processing Enterprises (PMFME) and Production Linked Incentive Scheme for Food Processing Industries (PLISFPI) aims for the overall development of food processing sector. Under various component of the aforementioned schemes, the MoFPI provides financial assistance for creation of modern infrastructure with efficient supply chain management from farm gate to retail outlet. The infrastructure created and assistance provided aims at providing better returns to farmers, creation of employment opportunities, reducing wastage, increasing the processing level and enhancing the export of the processed foods.

MoFPI implements Central Sector umbrella scheme – Pradhan Mantri Kisan Sampada Yojana (PMKSY) since 2017-18 across the country. The components scheme under PMKSY are (i) Mega Food Parks (MFP scheme- discontinued w.e.f. 01.04.2021), (ii) Integrated Cold Chain & Value Addition Infrastructure (iii) Creation of Infrastructure for Agro Processing Clusters (APC scheme), (iv) Creation/ Expansion of Food Processing and Preservation Capacities (CEFPPC scheme), (v) Creation of Backward and Forward Linkages (CBFL scheme- discontinued w.e.f. 01.04.2021) and (vi) Operation Greens (OG scheme).

The schemes are demand driven and proposals are invited by floating Expression of Interest from time to time based on availability of funds. Under these component schemes, MoFPI provides financial support in the form of grants-in-aid/ subsidy for setting up of food processing projects thereby creating both processing and preservation infrastructure facilities including cold chain infrastructure. The facilities created under the component schemes help in preservation & processing of raw farm produce and efficient transport of raw & finished processed food products thereby reducing post-harvest losses of farm produce.

A total of 1619 projects have been sanctioned across the country since inception under PMKSY, out of which 1181 projects have been completed as on 31<sup>st</sup> October, 2025. The Pradhan Mantri Kisan SAMPADA Yojana (PMKSY) of MoFPI is a demand-driven scheme and funds are not allocated state-wise under the scheme. Details of projects supported under PMKSY state-wise and year-wise is placed at **Annexure-II**.

MoFPI provides financial, technical and business support for setting up/ upgradation of micro food processing enterprises in the country under PMFME Scheme. The support is provided for potential entrepreneurs for all the products including One District One Product (ODOP) products under PMFME Scheme across the country. The scheme is operational from 2020-21 to 2025-26 with total outlay of Rs. 10,000 crores. As of 31<sup>st</sup> October 2025, 3,86,686 applications have been sent to banks and out of which 1,62,744 loans have been sanctioned with term loan amount of Rs. 13.23 thousand crores. Seed Capital support of Rs. 1244.95 Crore has been sanctioned for 3,65,935 women SHG members.

PLIFPI Scheme of MoFPI is intended, inter alia, to support creation of global food manufacturing champions and support Indian brands of food products in international market. The scheme is being implemented over a six-year period from 2021-22 to 2026-27 with an outlay of Rs.10,900 crores. By 31<sup>st</sup> October 2025, 170 applications have been approved under this scheme, with beneficiaries reporting investment of ₹9,032 crore and receiving incentive of ₹2162.553 crore.

\*\*\*\*

**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF LOK SABHA UNSTARRED QUESTION NO. 1976 FOR ANSWER ON 11<sup>TH</sup> DECEMBER, 2025 ON “POST-HARVEST LOSSES”**

**State Wise Post-Harvest Losses**

| Andhra Pradesh |                        |  |
|----------------|------------------------|--|
| Product        | Overall Total Loss (%) |  |
| Bajra          | 5.07                   |  |
| Banana         | 9.33                   |  |
| Black gram     | 5.56                   |  |
| Cashew nut     | 4.82                   |  |
| Chickpea       | 5.71                   |  |
| Chilli         | 7.06                   |  |
| Citrus         | 7.97                   |  |
| Coconut        | 4.32                   |  |
| Cottonseed     | 3.03                   |  |
| Egg            | 5.47                   |  |
| Green gram     | 6.17                   |  |
| Groundnut      | 6.58                   |  |
| Inland fish    | 4.68                   |  |
| Maize          | 5.98                   |  |
| Mango          | 7.9                    |  |
| Marine fish    | 8.5                    |  |
| Milk           | 0.58                   |  |
| Muskmelon      | 7.42                   |  |
| Paddy          | 5.73                   |  |
| Papaya         | 6.58                   |  |
| Pomegranate    | 8.69                   |  |
| Poultry Meat   | 7.39                   |  |
| Sorghum        | 5.67                   |  |
| Tapioca        | N/A                    |  |
| Tomato         | 12.36                  |  |
| Turmeric       | 4.97                   |  |

| Assam        |                        |  |
|--------------|------------------------|--|
| Product      | Overall Total Loss (%) |  |
| Cabbage      | 7.38                   |  |
| Egg          | 6.05                   |  |
| Meat         | 3.44                   |  |
| Mushroom     | 4.48                   |  |
| Paddy        | 6.07                   |  |
| Pineapple    | 7.11                   |  |
| Poultry Meat | 6.61                   |  |
| Radish       | 5.14                   |  |

| Andaman & Nicobar Islands |                        |  |
|---------------------------|------------------------|--|
| Product                   | Overall Total Loss (%) |  |
| Areca nut                 | 6.44                   |  |
| Coconut                   | 4.25                   |  |

| Bihar       |                        |  |
|-------------|------------------------|--|
| Product     | Overall Total Loss (%) |  |
| Bottlegourd | 7.35                   |  |
| Brinjal     | 7.52                   |  |
| Cabbage     | 8.7                    |  |
| Cauliflower | 6.76                   |  |
| Green gram  | 6.06                   |  |
| Guava       | 15.36                  |  |
| Inland fish | 5.99                   |  |
| Maize       | 5.83                   |  |
| Mango       | 10.1                   |  |
| Okra        | 6.27                   |  |
| Paddy       | 4.65                   |  |
| Pineapple   | 5.89                   |  |
| Potato      | 6.11                   |  |
| Radish      | 5.11                   |  |
| Sugarcane   | 8.99                   |  |
| Sunflower   | 5.18                   |  |

| Chhattisgarh |                        |  |
|--------------|------------------------|--|
| Product      | Overall Total Loss (%) |  |
| Bottlegourd  | 6.77                   |  |
| Guava        | 13.79                  |  |
| Paddy        | 3.92                   |  |
| Radish       | 6.66                   |  |

| Gujarat     |                        |  |
|-------------|------------------------|--|
| Product     | Overall Total Loss (%) |  |
| Green gram  | 5.85                   |  |
| Bajra       | 4.41                   |  |
| Tomato      | 10.97                  |  |
| Cottonseed  | 2.93                   |  |
| Groundnut   | 5.31                   |  |
| Okra        | 5.79                   |  |
| Sapota      | 7.47                   |  |
| Cabbage     | 8.39                   |  |
| Cauliflower | 7.99                   |  |
| Milk        | 0.5                    |  |
| Onion       | 7.57                   |  |
| Mustard     | 4.38                   |  |
| Potato      | 5.18                   |  |
| Wheat       | 5.18                   |  |
| Maize       | 5.18                   |  |
| Beans       | 6.65                   |  |
| Brinjal     | 6.99                   |  |
| Banana      | 7.59                   |  |
| Black gram  | 4.8                    |  |
| Papaya      | 5.81                   |  |
| Paddy       | 4.54                   |  |
| Pigeon Pea  | 4.27                   |  |

| <b>Haryana</b> |                               |
|----------------|-------------------------------|
| <b>Product</b> | <b>Overall Total Loss (%)</b> |
| Bajra          | 3.77                          |
| Chickpea       | 5.66                          |
| Cottonseed     | 2.55                          |
| Egg            | 6.74                          |
| Meat           | 2.88                          |
| Milk           | 0.74                          |
| Mushroom       | 5.91                          |
| Mustard        | 4.52                          |
| Poultry Meat   | 4.63                          |
| Radish         | 7.51                          |
| Sugarcane      | 6.34                          |
| Sunflower      | 4.44                          |
| Wheat          | 4.37                          |

| <b>Himachal Pradesh</b> |                               |
|-------------------------|-------------------------------|
| <b>Product</b>          | <b>Overall Total Loss (%)</b> |
| Apple                   | 9.2                           |
| Capsicum                | 5.74                          |
| Green Pea               | 6.35                          |
| Mushroom                | 6.01                          |
| Wheat                   | 3.32                          |
| Maize                   | 2.27                          |

| <b>Jharkhand</b> |                               |
|------------------|-------------------------------|
| <b>Product</b>   | <b>Overall Total Loss (%)</b> |
| Papaya           | 6.73                          |

| <b>Jammu &amp; Kashmir</b> |                               |
|----------------------------|-------------------------------|
| <b>Product</b>             | <b>Overall Total Loss (%)</b> |
| Apple                      | 9.51                          |
| Egg                        | 6.08                          |
| Maize                      | 3.92                          |

| <b>Kerala</b>  |                               |
|----------------|-------------------------------|
| <b>Product</b> | <b>Overall Total Loss (%)</b> |
| Areca nut      | 4.01                          |
| Black pepper   | 1.26                          |
| Cashew nut     | 3.07                          |
| Coconut        | 3.61                          |
| Egg            | 5.53                          |
| Marine fish    | 8.75                          |
| Meat           | 2.2                           |
| Poultry Meat   | 5.32                          |
| Tapioca        | 4.8                           |

| <b>Karnataka</b> |                               |
|------------------|-------------------------------|
| <b>Product</b>   | <b>Overall Total Loss (%)</b> |
| Areca nut        | 4.15                          |
| Bajra            | 5.03                          |
| Beans            | 7.33                          |
| Black pepper     | 1.31                          |
| Capsicum         | 5.75                          |
| Cashew nut       | 3.17                          |
| Coconut          | 3.78                          |
| Egg              | 5.64                          |
| Grapes           | 8.02                          |
| Inland fish      | 4.82                          |
| Maize            | 4.41                          |
| Marine fish      | 8.97                          |
| Onion            | 8.7                           |
| Pigeon Pea       | 4.57                          |
| Pineapple        | 3.73                          |
| Pomegranate      | 8.19                          |
| Safflower        | 3.1                           |
| Sorghum          | 5.69                          |
| Soybean          | 6.63                          |
| Sugarcane        | 4.84                          |
| Sunflower        | 4.22                          |
| Tomato           | 9.97                          |
| Turmeric         | 4.63                          |

| <b>Madhya Pradesh</b> |                        |
|-----------------------|------------------------|
| Product               | Overall Total Loss (%) |
| Bajra                 | 4.53                   |
| Black gram            | 6.73                   |
| Bottlegourd           | 7.46                   |
| Capsicum              | 4.33                   |
| Cauliflower           | 6.46                   |
| Chickpea              | 5.85                   |
| Chilli                | 6.29                   |
| Citrus                | 7.4                    |
| Coriander             | 6.01                   |
| Egg                   | 6.33                   |
| Green Pea             | 6.27                   |
| Groundnut             | 6.11                   |
| Guava                 | 14.93                  |
| Maize                 | 6.3                    |
| Milk                  | 0.53                   |
| Muskmelon             | 5.76                   |
| Mustard               | 4.86                   |
| Okra                  | 5.84                   |
| Onion                 | 8.11                   |
| Paddy                 | 4.2                    |
| Pigeon Pea            | 6.43                   |
| Potato                | 7                      |
| Sorghum               | 6.76                   |
| Soybean               | 7.36                   |
| Tomato                | 11.85                  |
| Wheat                 | 4.94                   |

| <b>Maharashtra</b> |                        |
|--------------------|------------------------|
| Product            | Overall Total Loss (%) |
| Bajra              | 4.21                   |
| Banana             | 6.06                   |
| Black gram         | 7.48                   |
| Chickpea           | 5.4                    |
| Citrus             | 8.79                   |
| Cottonseed         | 2.98                   |
| Eggs               | 5.55                   |
| Grapes             | 6.73                   |
| Green gram         | 5.9                    |
| Groundnut          | 6.16                   |
| Maize              | 5.3                    |
| Mango              | 8.61                   |
| Marine fish        | 8.8                    |
| Meat               | 2.78                   |
| Milk               | 0.65                   |
| Mushroom           | 9.24                   |
| Onion              | 6.78                   |
| Paddy              | 4.44                   |
| Pigeon Pea         | 6.9                    |
| Pomegranate        | 6.02                   |
| Poultry Meat       | 4.78                   |
| Safflower          | 3.02                   |
| Sorghum            | 6.16                   |
| Soybean            | 8.84                   |
| Sugarcane          | 8.61                   |
| Sunflower          | 4.93                   |

| <b>Meghalaya</b> |                        |
|------------------|------------------------|
| Product          | Overall Total Loss (%) |
| Tapioca          | 4.99                   |
| Turmeric         | 5.64                   |
| Cashew nut       | 4.53                   |

| <b>Nagaland</b> |                        |
|-----------------|------------------------|
| Product         | Overall Total Loss (%) |
| Tapioca         | 5.42                   |

| <b>Odisha</b> |                        |
|---------------|------------------------|
| Product       | Overall Total Loss (%) |
| Bottle gourd  | 7.57                   |
| Brinjal       | 7.3                    |
| Cabbage       | 8.08                   |
| Cauliflower   | 7.65                   |
| Chickpea      | 6.09                   |
| Egg           | 6.63                   |
| Green gram    | 6.11                   |
| Inland fish   | 5.68                   |
| Marine fish   | 9.89                   |
| Mushroom      | 13.64                  |
| Okra          | 6.25                   |
| Paddy         | 4.17                   |
| Tomato        | 13.19                  |

| Punjab    |                        |
|-----------|------------------------|
| Product   | Overall Total Loss (%) |
| Capsicum  | 4.31                   |
| Citrus    | 5.4                    |
| Green Pea | 6.67                   |
| Maize     | 6.91                   |
| Milk      | 0.63                   |
| Mushroom  | 6.7                    |
| Muskmelon | 5.48                   |
| Paddy     | 3.15                   |
| Potato    | 5.57                   |
| Sugarcane | 4.38                   |
| Wheat     | 4.55                   |

| Rajasthan  |                        |
|------------|------------------------|
| Product    | Overall Total Loss (%) |
| Bajra      | 5.03                   |
| Black gram | 5.74                   |
| Chickpea   | 5.83                   |
| Coriander  | 5.7                    |
| Cottonseed | 2.53                   |
| Greengram  | 6.21                   |
| Groundnut  | 5.03                   |
| Maize      | 5.81                   |
| Milk       | 1.35                   |
| Mustard    | 4.75                   |
| Sorghum    | 6.01                   |
| Soybean    | 6.54                   |
| Wheat      | 6.25                   |

| Tamil Nadu   |                        |
|--------------|------------------------|
| Product      | Overall Total Loss (%) |
| Banana       | 7.47                   |
| Beans        | 7.82                   |
| Black gram   | 5.93                   |
| Egg          | 6.6                    |
| Groundnut    | 5.31                   |
| Maize        | 4.39                   |
| Marine fish  | 9.14                   |
| Meat         | 3.04                   |
| Mushroom     | 11.03                  |
| Paddy        | 5.98                   |
| Poultry Meat | 6.08                   |
| Sorghum      | 6.29                   |
| Sugarcane    | 8.65                   |

| Telangana    |                        |
|--------------|------------------------|
| Product      | Overall Total Loss (%) |
| Chilli       | 6.06                   |
| Citrus       | 7.73                   |
| Cottonseed   | 3.04                   |
| Egg          | 5.36                   |
| Green gram   | 6.24                   |
| Groundnut    | 6.67                   |
| Maize        | 6.51                   |
| Meat         | 1.61                   |
| Pigeon Pea   | 5.01                   |
| Poultry Meat | 8.12                   |

| Uttarakhand |                        |
|-------------|------------------------|
| Product     | Overall Total Loss (%) |
| Apple       | 11.5                   |
| Milk        | 1.16                   |
| Paddy       | 2.87                   |
| Sugarcane   | 5.46                   |
| Wheat       | 2.51                   |

| Uttar Pradesh |                        |
|---------------|------------------------|
| Product       | Overall Total Loss (%) |
| Bajra         | 4.11                   |
| Black gram    | 6.11                   |
| Bottle gourd  | 6.43                   |
| Egg           | 6.06                   |
| Green Pea     | 6.34                   |
| Inland fish   | 4.99                   |
| Maize         | 5.77                   |
| Meat          | 2.8                    |
| Milk          | 1.12                   |
| Mushroom      | 2.74                   |
| Muskmelon     | 7.25                   |
| Mustard       | 5.97                   |
| Paddy         | 4                      |
| Potato        | 5.82                   |
| Poultry Meat  | 7.24                   |
| Sugarcane     | 6.91                   |
| Wheat         | 6.36                   |

| West Bengal  |                        |
|--------------|------------------------|
| Product      | Overall Total Loss (%) |
| Beans        | 5.48                   |
| Brinjal      | 7.85                   |
| Cabbage      | 8.71                   |
| Cauliflower  | 7.26                   |
| Eggs         | 7.07                   |
| Green gram   | 6.24                   |
| Groundnut    | 7.24                   |
| Guava        | 15.86                  |
| Inland fish  | 3.79                   |
| Maize        | 5.42                   |
| Marine fish  | 8.94                   |
| Meat         | 2.41                   |
| Milk         | 1.09                   |
| Mustard      | 6.21                   |
| Okra         | 6.05                   |
| Paddy        | 5.14                   |
| Pineapple    | 5.66                   |
| Potato       | 5.71                   |
| Poultry Meat | 5.41                   |
| Radish       | 6.45                   |
| Sunflower    | 5.21                   |
| Wheat        | 6.13                   |

**ANNEXURE REFERRED TO IN REPLY TO PART (b) OF LOK SABHA UNSTARRED QUESTION NO. 1976 FOR ANSWER ON 11<sup>TH</sup> DECEMBER, 2025 ON “POST-HARVEST LOSSES”**

| <b>Number of projects sanctioned under the Pradhan Mantri Kisan SAMPADA Yojana (PMKSY), State-wise, during the last four years and the current year</b> |                                      |                |                |                |                |                |
|---|--------------------------------------|----------------|----------------|----------------|----------------|----------------|
| <b>S.No</b>   | <b>State</b>                         | <b>2021-22</b> | <b>2022-23</b> | <b>2023-24</b> | <b>2024-25</b> | <b>2025-26</b> |
| 1   | Andaman & Nicobar                    | 0              | 0              | 0              | 0              | 0              |
| 2   | Andhra Pradesh                       | 1              | 25             | 11             | 0              | 3              |
| 3   | Arunachal Pradesh                    | 0              | 2              | 5              | 0              | 0              |
| 4   | Assam                                | 2              | 21             | 36             | 0              | 0              |
| 5   | Bihar                                | 0              | 4              | 3              | 0              | 0              |
| 6   | Chandigarh                           | 0              | 0              | 0              | 0              | 0              |
| 7   | Chhattisgarh                         | 0              | 3              | 1              | 0              | 1              |
| 8   | Dadar & Nagar Haveli and Daman & Diu | 0              | 0              | 0              | 0              | 0              |
| 9   | Delhi                                | 0              | 0              | 0              | 0              | 1              |
| 10  | Goa                                  | 0              | 0              | 1              | 0              | 0              |
| 11  | Gujarat                              | 0              | 18             | 4              | 0              | 2              |
| 12  | Haryana                              | 0              | 6              | 9              | 2              | 1              |
| 13  | Himachal Pradesh                     | 0              | 1              | 4              | 0              | 0              |
| 14  | Jammu & Kashmir                      | 0              | 1              | 1              | 0              | 1              |
| 15  | Jharkhand                            | 0              | 0              | 0              | 0              | 0              |
| 16  | Karnataka                            | 0              | 6              | 12             | 0              | 3              |
| 17  | Kerala                               | 0              | 8              | 9              | 2              | 3              |
| 18  | Ladakh                               | 0              | 0              | 0              | 0              | 0              |
| 19  | Lakshadweep                          | 0              | 0              | 0              | 0              | 0              |
| 20  | Madhya Pradesh                       | 0              | 16             | 6              | 0              | 0              |
| 21  | Maharashtra                          | 1              | 55             | 30             | 0              | 2              |
| 22  | Manipur                              | 0              | 0              | 3              | 0              | 0              |
| 23  | Meghalaya                            | 0              | 0              | 3              | 0              | 0              |
| 24  | Mizoram                              | 0              | 0              | 0              | 0              | 0              |
| 25  | Nagaland                             | 0              | 0              | 0              | 0              | 0              |
| 26  | Orissa                               | 0              | 7              | 7              | 2              | 2              |
| 27  | Puduchery                            | 0              | 0              | 0              | 0              | 0              |
| 28  | Punjab                               | 0              | 10             | 4              | 0              | 0              |
| 29  | Rajasthan                            | 0              | 14             | 7              | 1              | 1              |
| 30  | Sikkim                               | 0              | 0              | 0              | 0              | 0              |
| 31  | Tamil Nadu                           | 1              | 16             | 17             | 0              | 11             |
| 32  | Telangana                            | 0              | 10             | 23             | 0              | 1              |
| 33  | Tripura                              | 0              | 1              | 0              | 0              | 0              |
| 34  | Uttar Pradesh                        | 0              | 18             | 9              | 0              | 3              |
| 35  | Uttarakhand                          | 0              | 8              | 4              | 1              | 0              |
| 36  | West Bengal                          | 0              | 8              | 6              | 0              | 1              |
|   | <b>Total</b>                         | <b>5</b>       | <b>258</b>     | <b>215</b>     | <b>8</b>       | <b>36</b>      |

