

GOVERNMENT OF INDIA
MINISTRY OF FOOD PROCESSING INDUSTRIES
RAJYA SABHA
STARRED QUESTION NO. *218
ANSWERED ON 07TH AUGUST, 2026

**IRRADIATION FACILITIES FOR PRESERVATION OF PERISHABLE
AGRICULTURAL PRODUCE**

***218. SMT. RENUKA CHOWDHURY**

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

- (a) the number of food irradiation facilities established and operational, along with their installed and utilised processing capacity in the country, State-wise;
- (b) the quantity and types of perishable agricultural commodities, including fruits, vegetables, spices, cereals and other food products, treated through irradiation facilities during the last three years, year-wise and State-wise;
- (c) the details of the schemes, financial assistance, subsidy or other incentives for establishing irradiation facilities; and
- (d) whether the existing irradiation infrastructure is adequate to meet the country's requirement for preservation and export of perishable commodities, if not, the details of the gap assessment carried out by Government?

ANSWER

**THE MINISTER OF FOOD PROCESSING INDUSTRIES
(SHRI CHIRAG PASWAN)**

(a) to (d): A Statement is laid on the Table of the House.

**STATEMENT REFERRED TO IN REPLY TO PARTS (A) TO (D) OF RAJYA SABHA
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(a) 39 food irradiation facilities have been commissioned nationwide with the total capacity of 84200 kCi. A comprehensive State-wise list of food irradiation facilities along with their capacities is provided at **Annexure-I**.

(b) An array of food commodities including food grains, fruits, vegetables, dry fruits and allied commodities is being irradiated in different food irradiation facilities. On an average, 3000 MT of radiation processed mangoes have been exported annually in recent years. Mangoes are primarily irradiated in Maharashtra, Gujarat and Karnataka.

(c) & (d) The Ministry of Food Processing Industries (MoFPI) has been implementing a component scheme - Integrated Cold Chain and Value Addition Infrastructure (Cold Chain scheme) under the Central Sector umbrella scheme - Pradhan Mantri Kisan Sampada Yojana (PMKSY) which supports setting up of both standalone and integrated multiproduct food irradiation units. Under the Cold Chain scheme, Grants-in-aid/ subsidies of maximum ₹10.00 crore are provided per unit. Further, the following advantages are provided to the applicants to encourage them to submit proposals under the existing scheme and to avail benefits therefrom:

(i) For Central / State Government organisations / PSUs, no net worth criteria is applicable as against the minimum net worth equal to the grants-in-aid sought for other entities.

(ii) For proposals from difficult areas and from applicants of SC/ST/FPOs/ SHGs, grants-in-aid / subsidies at the rate of 50% of the eligible project cost are considered as against the grants-in-aid / subsidies at the rate of 35% of the eligible project cost in case of proposals from general areas.

(iii) For proposals from difficult areas and from applicants of SC/ST/FPOs/ SHGs, both equity contribution and term loan is minimum 10% each of the total project cost as against the minimum 20% each of the total project cost in case of proposals from general areas.

(iv) The proposals from the districts having no food irradiation facility is provided with five additional marks under scoring criteria.

Under the Cold Chain scheme, as of 30.06.2026, 27 irradiation projects have been approved with total grants-in-aid of ₹205.88 crore since inception of the scheme, of which 10 projects have been completed and operationalised and the remaining 17 projects are ongoing. The details of the same are provided at **Annexure-II**.

In addition, under the scheme for Development of Export Infrastructure, APEDA provided financial assistance of ₹4.94 crore during 2010-11 to Maharashtra, for setting up of irradiation facility for export of mangoes to USA. Presently, the facility is being used for exporting irradiated mangoes to USA, Australia, Malaysia and South Africa, as well as pomegranates to USA and Australia.

A typical throughput of a food irradiation facility (**Annexure-III**) indicates the need of many such facilities in the country.

Annexure-I**ANNEXURE-I REFERRED IN REPLY TO PART (A) OF THE RAJYA SABHA
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“IRRADIATION FACILITIES FOR PRESERVATION OF PERISHABLE
AGRICULTURAL PRODUCE”****State-wise list of food irradiation units along with the capacity in the country**

Sl. No.	State	No. of facilities	Capacity (kCi)
1	Andhra Pradesh	2	6000
2	Bihar	1	3000
3	Delhi	1	800
4	Gujarat	6	14000
5	Haryana	4	8500
6	Karnataka	2	1900
7	Madhya Pradesh	2	6000
8	Maharashtra	12	24800
9	Rajasthan	1	1000
10	Tamil Nadu	3	7000
11	Telangana	1	1200
12	Uttar Pradesh	2	6000
13	West Bengal	2	4000
	Total	39	84200

**ANNEXURE-II REFERRED IN REPLY TO PARTS (C) AND (D) OF THE RAJYA SABHA
STARRED QUESTION NO. *218 FOR ANSWER ON 07.08.2026 REGARDING
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PRODUCE”**

Details of food irradiation projects approved under the Cold Chain scheme since inception

Sl. No.	Project	District	State	Date of Approval	Project cost (₹ in crore)	Grants-in-aid approved (₹ in crore)	Amount of grant released (₹ in crore)	Status
1	Jhunsons Chemicals Pvt. Ltd.	Alwar	Rajasthan	20-01-2009	17.73	7.06	7.06	Completed
2	Impartial Agrotech (P) Ltd.	Unnao	Uttar Pradesh	25-05-2011	14.79	6.31	6.31	Completed
3	Innova Agri Bio Park Ltd	Kolar	Karnataka	07-06-2011	14.00	3.36	3.36	Completed
4	Aligned Industries Ltd	Rewari	Haryana	04-07-2012	22.02	7.21	7.21	Completed
5	Jamnadas Industries	Indore	Madhya Pradesh	17-12-2018	30.80	8.86	8.86	Completed
6	Microtrol Sterilisation Services	Bawal	Haryana	18-12-2018	17.47	6.58	6.58	Completed
7	Solas Industries	Mathura	Uttar Pradesh	28-12-2018	22.76	7.08	7.08	Completed
8	Gamma Tech India Private Limited	Tuticorin	Tamil Nadu	28-09-2020	20.11	5.73	5.73	Completed
9	Lions Foods Pvt Ltd	Gir Somnath	Gujarat	28-09-2020	22.45	5.12	5.12	Completed
10	Sukshma Gamma LLP	Krishna	Andhra Pradesh	31-03-2021	24.77	8.38	5.39	Ongoing
11	Greenrad Ventures Private Limited	Aurangabad	Maharashtra	28-06-2023	19.81	5.43	5.43	Completed
12	Q Line Healthcare Private Limited	Lucknow	Uttar Pradesh	28-06-2023	36.00	10.00	6.66	Ongoing
13	Vishvesh Agromed Private Limited	Nagpur	Maharashtra	29-02-2024	25.12	5.00	3.34	Ongoing
14	Solstrale India Private Ltd.	Haridwar	Uttarakhand	29-02-2024	26.21	9.43	3.15	Ongoing
15	Anjaneya Agro Tech	Krishna	Andhra Pradesh	12-06-2025	24.65	9.20	0.00	Ongoing
16	District Project Livelihood College Society Dantewada	Dantewada	Chhattisgarh	12-06-2025	24.98	10.00	0.00	Ongoing
17	Navya Industry	Vijayapura	Karnataka	24-09-2025	26.81	10.00	3.33	Ongoing
18	Microtrol Sterilisation Services Pvt. Ltd.	Tumkur	Karnataka	24-09-2025	36.71	6.76	0.00	Ongoing
19	Bharat E Kiran technologies Pvt. Ltd.	Palghar	Maharashtra	24-09-2025	23.45	7.22	0.00	Ongoing
20	Amuthadevi A	Trichy	Tamil Nadu	24-09-2025	20.00	9.72	3.24	Ongoing
21	Gamma Agro Medical Processing Pvt. Ltd.	Sangareddy	Telangana	24-09-2025	24.81	5.82	0.00	Ongoing
22	Ishaan Electroforged gratings Pvt. Ltd.	Hooghly	West Bengal	24-09-2025	35.58	7.50	0.00	Ongoing
23	M/s Naso Industries Pvt. Ltd.	Kathua	Jammu & Kashmir	24-09-2025	28.49	10.00	0.00	Ongoing
24	Sri Varsha Food Products Pvt. Ltd.	YSR Kadapa	Andhra Pradesh	24-09-2025	26.80	5.98	0.00	Ongoing
25	HK Food Park	Eluru	Andhra Pradesh	24-09-2025	25.13	10.00	0.00	Ongoing
26	Fanidhar Mega Food Park Pvt. Ltd.	Mehsana	Gujarat	24-09-2025	50.46	10.00	0.00	Ongoing
27	Agrosurg Irradiators India Pvt. Ltd.	Navsari	Gujarat	24-09-2025	35.49	8.13	0.00	Ongoing
				Total	697.40	205.88	87.85	

ANNEXURE-III REFERRED IN REPLY TO PARTS (C) AND (D) OF THE RAJYA SABHA STARRED QUESTION NO. *218 FOR ANSWER ON 07.08.2026 REGARDING “IRRADIATION FACILITIES FOR PRESERVATION OF PERISHABLE AGRICULTURAL PRODUCE”

Typical throughput of an irradiation facility (1000 kCi)

Product	Dose Range (kGy) (D_{min})	Bulk Density (gm/cc)	Expected Throughput (MT/day)
Bulbs(onion) & Tubers (potato)	0.06	0.40	265
Cereals & Pulses	0.65	0.60	290
Fruits & Vegetables	0.40	0.35	240
Meat & Fish	4.00	0.60	75
Spices & Herbs	6.00	0.45	45

D_{min}: Minimum absorbed dose
