

**GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA**

UNSTARRED QUESTION NO:3785
ANSWERED ON:23.08.2004
NEW TECHNOLOGY SYSTEM
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Will the Minister of AGRICULTURE be pleased to state:

- (a) whether the Government has assigned the task of inventing new technology/system to check the loss of foodgrains and agro products post crop production to any institution engaged on research and development;
- (b) if so, the date on which this responsibility was assigned to them;
- (c) the time by which the new advanced technology/system is likely to be made available in the country;
- (d) whether the Government have announced any incentive scheme to invent this technology/system; and
- (e) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI KANTILAL BHURIA)

(a) Yes, Sir. The Central Institute of Post Harvest Engineering & Technology (CIPHET), Ludhiana and the Central Institute of Agricultural Engineering(CIAE), Bhopal have been mandated to evolve new technologies/ systems to check the loss of food grains and post crop production of agro products. Besides, an All India Coordinated Research Project (AICRP) on Post Harvest Technology (PHT) carries out multilocational region specific studies on reduction of post harvest losses through its 34 Cooperating Centres. Short duration research projects are also given in the area of post harvest loss reduction technologies.

(b) The Central Institute of Post Harvest Engineering & Technology Ludhiana was established in 1989. The Central Institute of Agricultural Engineering (CIAE) Bhopal was established in 1976. The AICRP on (PHT) was started in 1972.

(c) The Central Institute of Post Harvest Engineering & Technology Ludhiana as well as cooperating centres of AICRP on PHT have evolved a number of technologies, that are being utilized effectively by the end users. Further research is on to develop innovative technologies to reduce post harvest losses in food grains, oilseeds and agro produce. List of technology/equipment developed in this area is given in Annexure attached.

(d) No, Sir.

(e) Not applicable.

ANNEXURE

EQUIPMENT AND TECHNOLOGIES DEVELOPED

(a) Field level successful technologies

S.No.	Technology/Equipment Cooperating Centres	Developed at CIPHET/ CIAE/AICRPs
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1	Vegetable washing machine	PAU, Ludhiana
2	Batch type drier for areca nut	UAS Bangalore
3	Agricultural waste fired drier	TNAU Coimbatore
4	Tomato juice extractor	TNAU,Coimbatore
5	Chilli seed extractor	PKV,Akola
6	Radial honey extractor	PAU, Ludhiana
7	PKV mini dhal mill	PKV Akola

- 8 CIAE dhal mill CIAE, Bhopal
- 9 Agro processing centres CIAE, Bhopal, PAU Ludhiana and UAS, Bangalore
- 10 Groundnut pod grader CIPHET, Ludhiana
- 11 Lac Scrapper-cum-grader CIPHET, Ludhiana
- 12 Evaporative cool room CIPHET, Ludhiana
- 13 Post harvest management of kinnow CIPHET, Ludhiana
- 14 Loss reduction technologies for tomatoes CIPHET, Ludhiana
- 15 Assessment of storage losses in CWC godown for rice CIPHET, Ludhiana
- 16 On farm storage structures of onion and garlic CIPHET, Ludhiana

(b) Other useful products, processes and database developed

S.No. Technology/Equipment Developed at CIPHET/CIAE/AICRPs
Cooperating Centres

- 1 Plant material based stored grain disinfectants GBPUA&T, Pantnagar
- 2 Assessment of post harvest losses in different crops all centres
- 3 Data base on agro-processing industries in all centres
different regions
- 4 Low cost grain infestation detector CIAE, Bhopal
- 5 Evaporatively cooled storage structures for PKV, Akola
oranges and potato
- 6 Rotary screen grain pre-cleaner PAU, Ludhiana
- 7 Paddy winnower TNAU, Coimbatore
- 8 Storage technology for pulses JNKVV, Jabalpur
- 9 Rapid curing of betel leaf OUAT Bhubaneswar
- 10 Trolley-cum-batch type drier PAU, Ludhiana
- 11 Paddy husk fired furnace GBPUA&T Pantnagar
- 12 Solar heat treatment machine for seeds RAU Udaipur
- 13 Cardamom drier UAS Bangalore
- 14 Process for ergot-bajra separation RAU Udaipur
- 15 Solar drier-cum-green house GAU Junagarh
- 16 Household paddy parboiling unit TNAU, Coimbatore
- 17 Chittore stone bin for safe storage of food grains RAU, Udaipur
- 18 Low cost seed storage bins from used bitumen drums CIAE, Bhopal
- 19 G.I. sheet metal bins for storage of food grains CIAE, Bhopal
- 20 Use of biogas for stored grains insects disinfestations PAU, Ludhiana
- 21 Safe storage of soybean seeds CIAE, Bhopal
- 22 Use of Acorus calamus as grain protectant JNKVV, Jabalpur
- 23 Natural air ventilated onions storage structure CIAE, Bhopal
- 24 Use of activated clay as grain protectant JNKVV, Jabalpur
- 25 Infrared seed treater TNAU, Coimbatore
- 26 Magnetic treater for seed PKV, Akola
- 27 Packaging of banana for enhanced shelf life TNAU, Coimbatore
- 28 Packaging of mango GAU, Junagarh
- 29 Groundnut stripper TNAU, Coimbatore
- 30 Alkali treater for straw GBPUA&T, Pantnagar
- 31 4- roller sugarcane crusher TNAU, Coimbatore
- 32 Coconut dehusker TNAU, Coimbatore
- 33 Cassava chipper TNAU, Coimbatore
- 34 Pearler for sorghum TNAU, Coimbatore
- 35 Power operated groundnut decorticator TNAU, Coimbatore
- 36 Paddy parboiling process IIT, Kharagpur
- 37 Farm level paddy parboiling tank CRRRI, Cuttack
- 38 Post harvest management of turmeric OUAT, Bhubaneswar
- 39 Mini dhal mill TNAU, Coimbatore
- 40 Pedal operated dhal mill GBPUA&T, Pantnagar
- 41 Tricking filter reactor for rice mill effluent IIT, Khargpur,
PAU, Ludhiana