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Achievements

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List of publication of the department

No of books published	02
Total no of lab and training manuals/proceeding/lecture notes/booklets published	50
No of research papers published in national and international journals/seminars/conferences	200

Awards and honors to the teachers of the department

S.No.	Name of faculty	Name of award	Name of agency
1	Dr R C Verma and Er S K Jain	Outstanding Book Award	Indian Society Agricultural Engineers, New Delhi
2	Dr R C Verma	Student Paper Award	Indian Society Agricultural Engineers, New Delhi
3	N K Jain	Commendation Medal	Indian Society Agricultural Engineers, New Delhi
4	Dr R C Verma and Er S K Jain	II best poster (research)	MPUAT, Udaipur
5	Dr V D Mudgal	Certificate of Appreciation	Indian Society Agricultural Engineers, New Delhi
6	Dr R C Verma	Fellow	Indian Society Agricultural Engineers, New Delhi
7	Dr V D Mudgal	Fellow	Indian Society Agricultural Engineers, New Delhi
8	Dr N K Jain	Fellow	Indian Society Agricultural Engineers, New Delhi
9	Dr V D Mudgal	Life Time Achievement Award	Life Time achievement award in field of Science, Society and Environment by Blue Planet Society, Prayagraj, UP

Field Worthy Technologies and Machines Developed

Maize dehusker, Maize dehusker cheller (Peddle operated as well as power operated), Garlic bulb breaker, factor, Ginger peeler, Ginger polisher, Microwave dryer, or dryer, Heat treatment machine, Seed treatment

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machine, Tumba seed separation machine, Grain storage bin, Stalk waferer, Custard apple pulper, quinoa polisher.

The major field-worthy processing technologies developed by this department are

Technology for Garlic processing	Technology for Ginger and turmeric processing
Technology for aloevera processing	Technology for value added product from bajra
Technology for maize <i>rab</i>	Process technology of arid fruits and vegetables

Many equipments have been commercialized and few are under commercialization. With more and more awareness and seasonal shortage of labour, the farmers/cooperative society/NGOs are coming ahead for adoption of improved machines and technologies to start rural agro processing units. Besides R&D, trainings are also imparted to farmers for creating awareness for value addition through post harvest processing.



Garlic Bulb Breaker



Maize Dehusker Sheller in operation



Garlic Clove Peeler (Batch type)






Turmeric polisher cum ginger peeler



Garlic Clove Peeler



Solar heat treatment machine

1.		On Going Project 
Project Sanctioned Through	ICAR	
Mode of research	Coordinated Project	
Project Title :	AICRP on Post Harvest Technology	
Year of Initiation	1972	
Year of Completion :	Ongoing	
Name of Developer :	Dr N.K. Jain	
Financial Sanction Granted	-	
Principal Investigator :	Dr N.K. Jain	
Technology/Equipments developed :	15	
2.		
Project Sanctioned Through	Department of Science and Industrial Research	
Project Title :	Promoting Innovations and Individuals, Start-ups and MSMEs (PRISM)	
Aloevera Gel Extractor	Tumba dewatering machine	
Year of Initiation	2018	
Year of Completion :		
Principal Investigator :	Dr. S.K. Jain	
Financial Sanction Granted	Rs. 12.00 lakh	
3.		
Microwave Dryer	Osmotic dehydrator	

Project Sanctioned Through	Department of Consumer Affairs, GOI
Project Title :	Development of Protocols for Procurements, safe storage and milling outturn of major pulses
Year of Initiation	2019
Year of Completion :	
Principal Investigator :	Dr. N.K. Jain
Financial Sanction Granted	Rs. 32.45 Lakh

Completed Project

1.

Project Sanctioned Through	Indian Council For Agricultural Research(ICAR), New Delhi
Project Title :	National Agricultural Technology Project(NATP) on Household Food and Nutritional Security for Tribal,Hilly and Backward Areas
Year of Initiation	1999
Year of Completion :	2003
Principal Investigator :	Dr. R.C. Verma(PI), DR S.K. Jain(Co-PI)
Financial Sanction Granted	Rs. 40.00 Lakh

2.

Project Sanctioned Through	Khadi & Village Industrial Commission, Mumbai
Project Title :	Development of Pilot scale microwave dryer for garlic cloves
Year of Initiation	March 2003
Year of Completion :	March 2008
Principal Investigator :	Dr. G.P. Sharma
Financial Sanction Granted	Rs. 50.00 Lakh

3.

Project Sanctioned Through	Department of Science and Technology, New Delhi
Project Title :	Demonstration and Popularization of value addition and processing of garlic in production catchment
Year of Initiation	2009
Year of Completion :	2013
Principal Investigator :	Dr. N K Jain
Financial Sanction Granted	Rs. 17.03 Lakhs

4.

Project Sanctioned Through	Department of Science and Technology	
Project Title :	Development of Osmotic Dehydrator for Horticultural Produce	
Year of Initiation	2013	
Year of Completion:	2015	
Principal Investigator	Dr. S.K Jain	
Financial Sanction Granted	Rs 3.86 Lakh	

5.

Project Sanctioned Through	NABARD	
Project Title	Design and Feasibility of Grain Silos for Rajasthan	
Year of Initiation	2014	
Year of Completion:	2015	
Principal Investigator:	Dr. N.K. Jain	
Financial Sanction Granted	Rs. 5.00 Lakh	

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