

**FOUR DECADES
ALL INDIA COORDINATED RESEARCH PROJECT ON
POST-HARVEST ENGINEERING AND TECHNOLOGY**

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	Food Grains and oil seeds	
1.	PKV Mini Dal Mill	
2.	PKV Cleaner-Grader-Polisher	
3.	Vivek Thresher-cum-Pearler	
4.	VL Steaming Plant	
5.	VL Paddy Thresher	
6.	Dehuller for Barnyard Millet	
7.	Pedal Operated Winnow-Cleaner-Grader for Millets	
8.	3-in-1 Mini Groundnut Decorticator-cum-Sunflower Thresher and Maize Sheller	
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14.	Multipurpose Grain Mill	
15.	Manual Double Screen Cleaner with Sack Holder	
16.	Groundnut Cum Castor Decorticator	
17.	Pedal cum Power Operated Grain Cleaner	
18.	Dhall Mill	
19.	Groundnut Decorticator (Hand operated)	
20.	Solar Cabinet Dryer	
21.	Straw Baler	
22.	Manual Double Screen Cleaner	
23.	Mahua Seed Decorticator	
24.	Small Scale Sunflower Oil Dewaxing System	
25.	Pearling of Minor Millets	
26.	Mini Dhal Mill	
27.	Household Paddy Parboiling Unit	
28.	Household Insect Trap	
29.	Groundnut Kernel Testa Remover	
30.	Single Drum Rotary Screen Grain Pre-cleaner	
31.	Chulha for Grain Puffing Machine	
32.	Process variables for Maize seed processing	
33.	Tungabhadra Winnow	
34.	Improved Groundnut Decorticator	
35.	Multi Mill	
36.	Modified Maize Dehusker Sheller	
37.	Solar Heat Treatment Machine	
	Process protocols and products	
38.	Mahua Flower Beverages	
39.	Utilization of Paddy Soaked for Days under Flood Water.	
40.	Storage of Mechanical Damaged Grains Using Castor Oil and Stored in	

	Metal Bin	
41.	Extrusion Technology (Peanut blended)	
42.	Extrudates of Minor Millets	
43.	Process for Quick Cooking Maize Rab Powder	
	Horticultural Crops: Machinery/Equipment/Tool	
44.	PKV Chilli Seed Extractor	
45.	PDKV Fruit Grader	
46.	PKV Waste Fired Dryer	
47.	Turmeric slicer	
48.	Pilot plant (100 kg/day capacity) for making cherry/tutty-fruity	
49.	Pricking Machine for Petha Preparation	
50.	White Pepper Machine	
51.	Manual Arecanut Dehusker	
52.	Tamarind Dehuller-cum-Deseeder	
53.	Pedal operated Coconut Dehusker	
54.	Bulk Onion Curing Unit	
55.	Mango Harvester	
56.	Sapota Harvester	
57.	Ready-to-serve Beverage from Jackfruit	
58.	Cardamom Dryer	
59.	Tubular Aeration System for Improved On-Farm Storage of Potato	
60.	Multipurpose Poly House Solar Dryer	
61.	Mobile Steam Boiler for turmeric	
62.	Barn Drying of Chillies	
63.	Turmeric/Ginger Washer	
64.	Dehumidified Air Dryer	
65.	Bael Slicer	
66.	Hand Operated Low Cost Aloe-vera Gel Extractor	
67.	Automatic mango grader based on internal and external quality	
68.	Fluidized Bed Dryer for Mushroom	
69.	Improved Farm Level Turmeric Boiler	
70.	Aonla Pricking Machine (manually operated)	
71.	Continuous Carrot Washer	
72.	Aonla Pricking Machine (power operated)	
73.	Pineapple Harvester	
74.	Water Chest Nut Decorticator (Manual)	
75.	Fruit Grader (Manual)	
76.	Power Operated Pea Shelling Machine	
77.	Power Operated Green Bengal Gram Pod Stripping Machine	
78.	Ber Grader	
79.	Cleaner-cum-Grader for Cumin	
80.	Development of Shell fired Copra Dryer	
81.	Tender Coconut Punch and Cutter	
82.	Coconut De-Shelling Machine	
83.	Coconut Slicing Machine	
84.	Coconut Testa Removing Machine	

85.	Honey Processing Unit	
86.	Hand Operated Wild Apricot Decorticator	
87.	Apricot Stone Grader	
88.	Pedal operated Fig Pressing Machine	
89.	Natural Convection Solar Dryer [Mini-multi rack solar dryer]	
90.	Forced Convection Solar Drying System	
91.	Dried Apricot Grader	
92.	Walnut Dehuller	
93.	Walnut Bleacher- cum-Washer	
94.	Black Pepper Decorticator	
95.	Cassava Rasper	
96.	Cassava Peeling Knife	
97.	Cassava Chipping Machine (Hand operated)	
98.	Pedal Operated Cassava Chipping Machine	
99.	Motorized Cassava Chipping Machine	
100	Mobile Starch Extraction Plant	
101	Feed Granular	
102	Garlic Bulb Breaker	
103	Peeler cum Polisher for Ginger and Turmeric	
104	Garlic Clove Flaking Machine	
105	Solar Dryer	
106	Garlic Peel Remover For Dehydrated Flakes	
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112	Value Addition of Roselle Calyces	
113	Utilization of 'Patchouli Spent Charge' after Distillation Of Essential Oil for The Manufacture Of Agarbatti	
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116	Aloe vera blended Ready to Serve Beverage	
117	Pineapple Peeler-Cum-Corer-Cum Slicer device	
118	Complete Process Protocol For Probiotic Fruit Juice (Apple)	
119	Safe and Low Cost Holi Powder From Tapioca	
120	Storage of Ginger Rhizomes in Fresh Form	
121	Sapota Cleaner	
122	Extraction of Pectin From Kesar Mango Peel By Resins	
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124	Farm Level Fruit and Vegetable Washing Machine	
125	Turmeric Washing and Polishing Machine	
126	Electric-cum-Battery Heated Uncapping Knife	
127	Trolley Drier	

128	Honey Heating-cum Filtration System	
129	Eight Frame Radial Honey Extractor	
130	Production of Sapota Powder	
131	Custard Apple Fruity	
132	Process for Mango Leather (Aam Papad), Mango powder and Mango	
133	Extraction of Kernel Oil from Apricot and Wild Apricot Seed / Stones	
134	Technology for Preparation of RTU Mushroom Tikki Mix	
135	Technology for Preparation of Mushroom Powder	
136	Technology for Preparation of Instant Mushroom Noodles	
137	Technology for Preparation of RTU Mushroom Soup Powder	
138	Cloud Stable Cherry Squash	
139	Cherry Candy	
140	Plum Appetizer	
141	Walnut kernel incorporated rice based extruded snacks	
142	Lotus stem and broken rice based expanded snacks	
143	Cloud stable health drink from blend of Apricot and Sea buckthorn.	
144	Curing of Vanilla beans	
145	Fried Snack Foods from Cassava Based Composite Flour	
146	Process Technology for Garlic flakes & powder	
147	Technology for Ginger and Turmeric Processing	
	LIVESTOCK MACHINERY	
148	Mobile Poultry Processing Unit-cum-Retail Meat Stall	
149	Feed Block Making Machine	
150	Women Friendly Fish Vending and Display Unit	
151	Model Retail Outlet for the Production of Hygienic Chicken Meat	
152	Low Calorie Ice Cream (Using Stevia Powder) for Diabetic Patients	
153	Pedal Operated Ice Crusher	
	LIVESTOCK PROCESS	
154	Pet Food	
155	Pet Food Preparation	
156	Soya Protein Isolate in Buffalo Sausage Preparation	
157	Honey Treated Deep Fried Chicken Nuggets	
158	Intermediate Spent Chicken Meat	
159	Spent Chicken Meat Pickle	
160	Ready-to-Eat extruded Fishery Products	
161	Process for Extraction of Flavor From Shrimp Waste	
162	Development of Fish Soup with Shrimp Flavour	
163	Development of Vegetable Soup with Shrimp Flavour	
164	Low Calorie Ice Cream (using stevia powder) for diabetic patients	
165	Value Added Product (Fish sausage) by using low value Marine and Fresh water fish.	
166	Value Added Product (fish balls) using low value marine fish (Squilla)	
	JAGGERY MACHINERY	
167	Crystal (<3.0mm) Jaggery Making Process and Crystal Jaggery Making Machine)	
168	Mechanized Jaggery Granulator for production of free flowing Jaggery	

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169	Steam Boiling System Using Bagasse for the preparation of Good Quality Jaggery	
170	Improved Four Roller Sugarcane Crusher	
171	Modified Electronic Thermometer	
172	Churner	
173	Modified Hardness Tester	
174	Juice Boiling Pan	
175	Sugarcane Juice Collection and Settling Tank	
176	Boiling Pan Tipping Mechanism	
177	Jaggery Moulding Frame	
178	Rectangular Shaped Jaggery Moulding Frame	
179	Drying-cum-Storage Bin	
180	IISR Two Pan Furnace with Forced Draft System	
181	Improved Triple Pan Furnace	
182	Modified Juice Heating /Boiling/ Concentrating Pans	
183	Waste Heat Recovery System for Open Pan Jaggery Furnace	
184	Sugarcane Peeler	
185	IISR 3-Roller Horizontal Power Driven Crusher	
186	Small Capacity Cane Crusher	
187	Mechanical Cane Juice Filtration Unit	
188	Boiling Juice Churning Device	
189	Scum Settling Tank	
190	Mechanical Jaggery Dryer	
191	Solar Dryer for Jaggery	
192	Drying-cum Storage Jaggery Bin	
	JAGGERY PROCESS	
193	Bottling of Sugarcane Juice	
194	Okra Plant Stalk Powder for Clarification	
195	Value-added Jaggery	
196	Rectangular Shaped Jaggery	
197	Cube-shaped Jaggery	
198	Process Technology for Production of Value-added Jaggery Cubes and Bars	
199	Liquid Jaggery	
200	Powder/Granular Jaggery	
201	Jaggery Chocolate	

1. Historical Background

The All India Coordinated Research Project on Post-Harvest Engineering and Technology (earlier named: Coordinated Scheme on Harvest and Post-Harvest Technology; and All India Coordinated Research Project on Post Harvest Technology) was sanctioned by the Indian Council of Agricultural Research, Department of Agricultural Research & Education, Ministry of Agriculture, Government of India, in September 1972. It started with R&D Centres at ten locations, viz., IARI New Delhi (Coordinating Centre), PVK Akola, TNAU Coimbatore, CRRI Cuttack, JNKVV Jabalpur, IIT Kharagpur, PAU Ludhiana, GBPUA&T Pantnagar, UAS Raichur and MPUA&T Udaipur. The Coordinating Unit was shifted to ICAR-Central Institute of Agricultural Engineering Bhopal in February 1976 and thereafter shifted to ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana with effect from December 29, 1989.

During VI Five Year Plan (1978-83), four more centres namely GAU Junagadh, CAZRI Jodhpur, CPCRI Kasargod and CTCRI Trivandrum were approved. The objectives of the schemes were set as to: (i) find out right stage of harvesting based on proper moisture levels for maximum recovery and keeping quality of grains as affected by harvesting at different stages; (ii) improve efficiency of machines for harvesting, threshing and processing of grains and study the quality of processed seed and grains; (iii) study the drying behaviour and characteristics of grains, (iv) study of components of structure for improving the efficiency; (iv) solve storage problems of grains including storage-grains- pest problems; (v) effect of mechanization; and (vi) handling of grains for marketing.

During the V, VI and IX Plans, eleven more centres were inducted the scheme. In X Plan EFC, eight new centres were started and four existing centres were assigned enlarged mandate on dairy, fisheries, horticulture, and meat products. Besides, five ongoing centres of AICRP on Jaggery and Khandsari (RARS Annakapalle, SRS Buralikson, IISR Lucknow, RS&JRS Kolhapur, were merged with AICRP on PHT w.e.f. April 2004. During XI Plan, four new centres were approved and commenced at CAU Gangtok, BAU Ranchi, KVA&FSU Mangalore and MAFSU Mumbai; and the AICRP grew to the level of 38 centres. CAZRI Jodhpur was dropped at the end of XI Plan and few other centres such as AMU Aligarh, CIAE Bhopal, NDUAT Faizabad, RAU Jaipur, WBUA&FS Kolkata and GBPUAT Pantnagar were closed and one centre SRS Buralikson merged with AAU Jorhat centre on recommendation of QRT and EFC of XII Plan period, respectively. Presently, the project is operating through 30 centres distributed almost throughout India,

covering almost all states and the agro-climatic regions (Fig. 1) (Please give India Map with locations of the centres). The organisational set up the AICRP depicted in Fig 2.

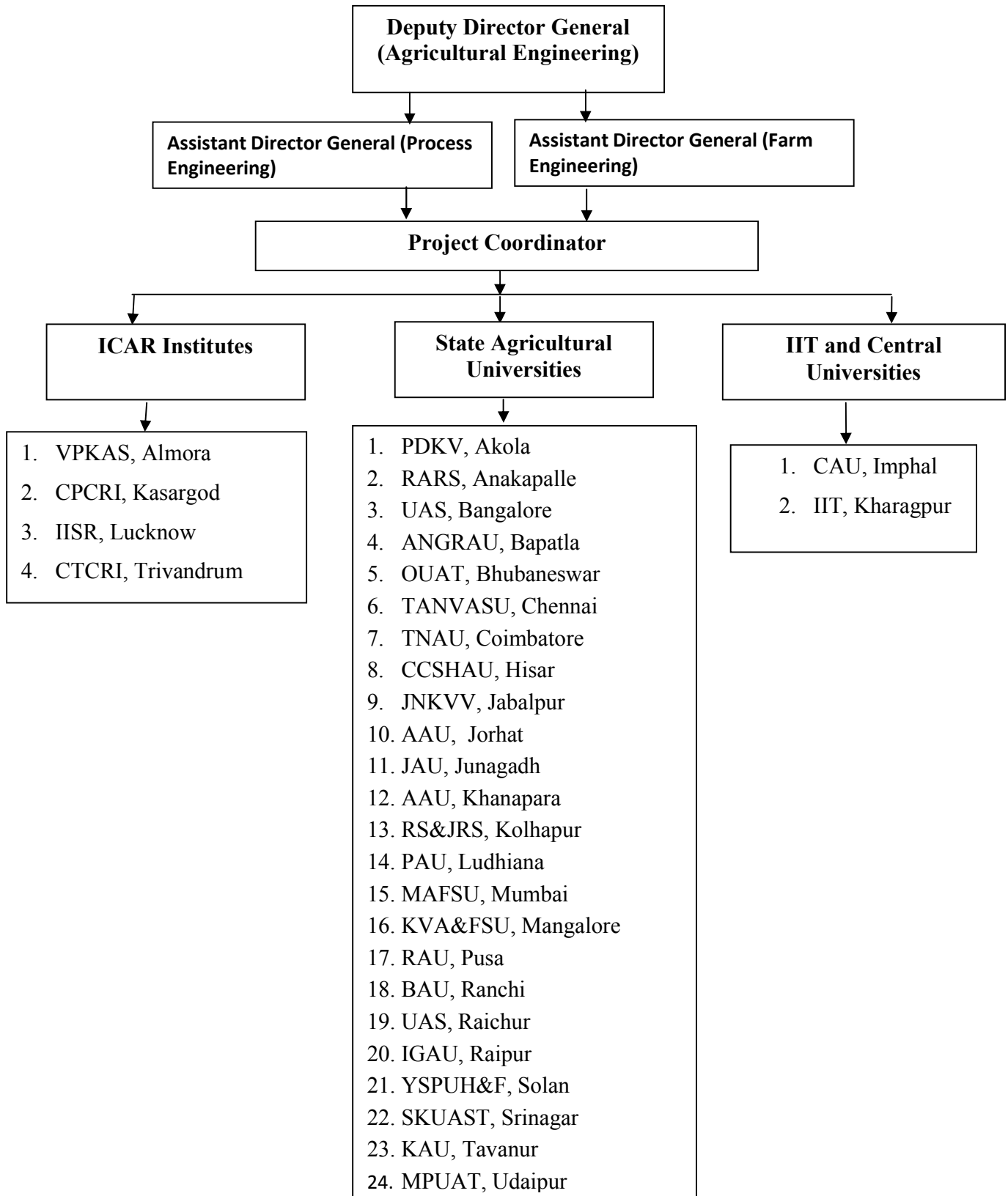


Fig. 2. Organogram of All India Coordinated Research Project on Post-Harvest Engineering and Technology (AICRP on PHET)

2. Mandate of AICRP on PHET

- To develop location and crop/commodity specific post-harvest technologies for minimization of quantitative and qualitative losses to produce of agriculture and allied sectors.
- To adapt and develop improved post-harvest processes and equipment for value addition to food grains and other produce at rural threshold for higher income and generation of rural employment.
- To develop processes and equipment for economic utilization on bio-wastes and byproducts.
- To conduct operational research and multi-location trials on developed technologies to identify technical, financial, managerial and social constraints for better market acceptability to technologies.
- To establish need based Agro-Processing Centres (APC) to assure better economic returns to the farmers from their marketable surpluses.
- To assess, refine and transfer proven technologies.

Specific Objectives

- To study the prevailing post-harvests practices and identify unit operations, equipment and their components that need improvement or substitution, adequacy and inadequacy of the prevailing practices.
- To develop and adopt farm level cleaners, graders and dryers for cereals, pulses, oilseeds, plantation crops, tubers, other field crops, livestock produce and fish.
- To develop simple processes, low cost equipment and pilot plants for farm/village level processing of food grains, oilseeds and other crops for rural consumption, as well as selling value added products to semi-urban and urban areas for better economic returns.
- To develop simple processes and equipment farm/village level for better economic utilization of bio-wastes and by-products as food/feed/fuel etc. for increasing profitability of the commodity and income of the farmer.
- To undertake studies on techno-economic feasibility and economical viability of on-farm/village level processing industries and other enterprises.
- To field evaluate laboratory proven technologies and carry out operational research trials on the developed technologies for villages to identify technical, managerial and social constraints and take remedial measures before releasing for popularization.
- To facilitate creating of post-harvest technology consciousness and transfer of proven technologies in selected villages and monitoring its effects on economics and social development.
- To generate income and employment in rural areas through adoption of proven technologies and equipment through establishing agro-processing centres.

3. Manpower and Budget

Personnel Served and Guided AICRP on PHET in Various Capacities

Four decades of AICRP on PHET has been served by many Project Coordinators and guided by distinguished and well known Scientists and Engineers in Capacities of Deputy Director General, Asstt. Director General and Directors of ICAR-CIPHET as listed below:

Deputy Director Generals

Dr. Jaswant S. Kanwar	1966-1973
Dr. Dev Raj Bhumbra	1974-1978
Prof. N. S. Randhawa	1979-1985
Prof. Gajendra Singh	1997-1998
Dr. Anwar Alam	1998-2003
Dr. Nawab Ali	2005-2009
Dr. M.M.Pandey	2009-2013
Dr. D. Rama Rao	2013-2014
Dr. K. Alagusundram	2014 –At Present

Assistant Director Generals

Dr. R.P. Kachru	1998-2002
Dr. N.S.L. Srivastava	2002-2003
Dr. P. Chandra	2003-2009
Dr. S.K. Tandon	2009-2010
Dr. K.K. Singh	2010-2014
Dr. Kanchan K. Singh	2014 – till date

Directors, ICAR-CIPHET, Ludhiana

Dr. Nawab Ali, OSD	1989 – 1991
Dr. Jai Singh, OSD	1991 -1997
Dr. B. S. Bisht, Director (Acting)	1997 -2000
Dr. S. M. Ilyas, Director	2000 -2005
Dr. O. D. Wanjari, Director (Acting)	2005-2006
Dr. R. T. Patil, Director	2006 – 2011
Dr. R. K. Gupta, Director (Acting)	2011-2012
Dr. U. S. Shivhare, Director	2012 -2013

Dr. S. N. Jha, Director (Acting) 2013-2014
 Dr. R. K. Gupta, Director 2014 to till date

Project Coordinators

Prof. T.H. Nirmal 1972-1977
 Dr. Anwar Alam 1978-1981
 Dr. Nawab Ali 1981-1985
 Dr. B.D. Shukla 1985-1989
 Dr. R.P. Kachru 1989-1991
 Dr. Jai Singh 1991-1996
 Dr. B.S. Bisht 1996-2002
 Dr. S.M. Ilyas 2002-2005
 Dr. S.K. Nanda 2005-2013
 Dr. R.K. Gupta 2013-2014
 Dr. S.N. Jha 2014 – till date

Manpower of AICRP on PHET during different plan periods

It is difficult to get all information since inception of the AICRP on record. Manpower sanctioned however in last four plan periods are tabulated below:

Sl. No.	Categories	IX Plan (21 Centres)	X Plan (34 Centres)	XI Plan (38 centres)	XII Plan (30 centres; w.e.f. 1-4-2015)
1.	Scientific	96	115	161	155
2.	Technical	145	159	224	217
3.	Administrative	24	23	41	37
4.	Supporting	33	31	44	40
	Total	298	328	470	449

The growth and expansion of AICRP on PHET in terms of scientific strength is clearly evident from above mentioned manpower during IX Plan to XI Plan period. The scientific personnel engaged presently at headquarter of AICRP on PHET and the list of Research Engineers/PIs of Research centres are listed below:

Coordinating Unit, ICAR-CIPHET, Ludhiana

Dr. S. N. Jha

Project Coordinator, AICRP on PHET
Dr. Anil Kumar Dixit
Senior Scientist (Agricultural Economics)
Dr. S.K. Aleksha Kudos
Scientist (AS&PE)

Research Centres of AICRP on PHET

S. No.	States	Name of Centres	Establishment (Plan & Year)		Name of Incumbent RE/PI
			Plan	Year	
1.	Andhra Pradesh	Acharya N.G. Ranga Agricultural University, Bapatla	VII	1989	Dr. D. Bhasker Rao
		Regional Agricultural Research Station Anakapalle	VII	1989	Dr. P. V. K. Jagannadha Rao
2.	Assam	Assam Agricultural University, Jorhat	VII	1989	Dr. Abhijit Borah
		Assam Agricultural University, SRS Buralikson	IX	2000 merged with AAU Jorhat	-
		College of Veterinary Science AAU, Khanapara	X	2004	Dr. Mineswar Hazarika
3.	Bihar	Rajendra Agricultural University, Pusa	VII	1988	Dr. Mukesh Shrivastava
4.	Chhattisgarh	Indira Gandhi Krishi Vishwa Vidyalaya Raipur	IX	2001	Dr. S. Patel
5.	Gujarat	Junagadh Agricultural University, Junagadh	IV	1972	Dr. M. N. Dhabhi,
6.	Haryana	CCS Haryana Agricultural University, Hisar	X	2004	Dr. D. K. Sharma
7.	Himachal Pradesh	Dr. Y. S. Parmar University of Horticulture and Forestry, Nauni, Solan	X	2004	Dr. (Mrs.) Devina Vaidya
8.	Jammu and Kashmir	Sher-e-Kashmir University of Agri. Sciences and Technology, Srinagar	IX	2001	Dr. Syed Zameer
9.	Jharkhand	Birsa Agricultural University, Kanke, Ranchi	XI	2009	Dr. S. K Pandey
10.	Karnataka	University of Agricultural Sciences, J- Block, GKVK Campus, Bangalore	IV	1972	Dr. S. Subramanya
		University of Agricultural	X	2004	Dr. Udaykumar Nidoni

		Sciences, Raichur			
		College of Fisheries, Mathsyangar, Mangalore	XI	2009	Dr. C. V. Raju
11.	Kerala	Central Plantation Crop Research Institute, Kasargod	V	1976	Dr. M. R. Manikantan
		Central Tuber Crops Research Institute, Thiruvananthapuram	V	1976	Dr. M.S. Sajeev
		Kelappaji College of Agricultural Engineering and Technology, Tavanur	X	2004	Dr. Santhi Mary Mathew
12	Madhya Pradesh	Jawaharlal Nehru Krishi Viswa Vidyalaya, Jabalpur	IV	1972	Dr. Ravi Aggarwal
13	Maharashtra	Dr. Punjabrao Deshmukh Krishi Vidyapeeth, Krishi Nagar, Akola	IV	1972	Dr. P. A. Borkar
		Regional Sugarcane & Jaggery Research Station, Kolhapur	X	2004	Dr. B. G. Gaikawad
		Bombay Veterinary college, Mumbai	XI	2009	Dr. R. J. Zende
14	Orissa	Orissa University of Agriculture & Technology, Bhubaneswar	VIII	1995	Dr. M. K. Panda
15	Punjab	Punjab Agricultural University, Ludhiana	IV	1972	Dr. M. S. Alam
16	Rajasthan	Maharana Pratap University of Agricultural & Technology, Udaipur	IV	1972	Dr. V. D. Mudgal
17	Sikkim	Central Agricultural University, COA, Agriculture, Imphal	XI	2009	Dr. Ng. Joy Kumar Singh
18	Tamil Nadu	Tamil Nadu Agricultural University, Coimbatore	IV	1972	Dr. S. Ganapathy
		Tamil Nadu Veterinary and Animal Sciences University, Chennai	X	2004	Dr. Robinson J. J. Abraham
19	Uttar Pradesh	Indian Institute of Sugarcane Research Rae Bareli Road, Lucknow	VII	1988	Dr. Dilip Kumar
20	Uttarakhand	ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora	IX	2001	Dr. Sher Singh
21	West Bengal	Indian Institute of	IV	1972	Dr. A. K. Datta

		Technology Centre, Kharagpur			
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Budgetary Support

ICAR is providing Grant-in-Aids support of 75 percent to State Agricultural Universities and 100 percent to ICAR institutes, Indian Institute of Technology and Central Universities. Plan-wise budget allocation indicates a quantum jump during XI over IX Plan in Table below. An outlay of 132.72 crore (ICAR share) was approved during XII Plan. A provision of establishment of Agro-processing centres (APC) was kept during X and XII Plan periods. Tribal Sub-Plan component (TSP) was also included in the XII Plan.

Budget allocation (ICAR share) for AICRP on PHET during different plan periods

(Rs. in lakhs)

Head	IX Plan (21 Centres)	X Plan (34 Centres)	XI Plan (38 Centres)	XII Plan (30 Centres w.e.f. 1-4-2015)
Salary	749.97	1941.77	4633.60	8826.85
Travelling allowance	34.67	119.00	158.50	300.00
HRD	13.97	9.13	-	120.44
Recurring Contingency	162.72	4777.44	783.10	2000.00
Non-Recurring Contingency	192.67	795.15	1145.40	2015.25
Total (ICAR share)	1154.00	3342.49	6720.60	13272.50

4. Achievements of AICRP on PHET

Technology developed and commercialized

AICRP on PHET centres have developed large numbers of post-harvest machinery, tools, gadgets, process protocols and products over a period of time. These technologies are location and crop specific, user and environment friendly; and have been transferred and adopted by appreciable numbers of stakeholders. Majority of them are enumerated below:

Name of the technology		Machinery/units sold/adopted or established
<u>Food grains (Machine/gadget)</u>		No
i)	PKV Mini Dal Mill	600
ii)	Vivek Millet thresher - cum- pearler	730
iii)	Multi purpose grain mill	20
iv)	Mini Dal mill	160
v)	Pedal cum power operated cleaner	435

vi)	Groundnut cum castor decorticator	728
vii)	parboiling unit	250
viii)	Insect Trap (PHL reduction 0.1%)	4.0 lakh
ix)	Grain puffing machine	200
x)	Maize Dehusker cum sheller	20

Horticulture (Machine/equipment)

xi)	PKV Chilli Seed extractor	04
xii)	Fruit grader	03
xiii)	Tamarind dehuller-deseeder	9
xiv)	Manual arecanut dehusker	39
xv)	White peeper making machine	24
xvi)	Turmeric polisher	10
xvii)	Multipurpose polyhouse solar dryer	17
xviii)	Fluidized bed drier for mushroom	07
xix)	Improved turmeric boiler	165
xx)	Cumin cleaner-cum-grader	03
xxi)	On farm fruit grader	02
xxii)	Fruits and vegetable washing machine	10
xxiii)	Hand operated cassava chipping machine	28
xxiv)	Garlic bulb breaker	20

Process and product development

xxv)	Safe storage of pulses	1000
xxvi)	Osmo-dehydrated pineapple slices	02 units
xxvii)	Apricot Kernel Oil extraction	08 units
xxviii)	Aloe vera processing	04 units
xxix)	Garlic dehydration technology	03 units
xxx)	Botling of sugarcane juice	04 units
xxxi)	Production of cube shaped jaggery	40 units
xxxii)	Agro Processing centres	117 units

Livestock sector

xxxiii)	Mobile Poultry Processing-cum-Retail Meat Stall	01 unit
xxxiv)	Model Retail Outlet for Hygienic Chicken Meat	01 unit
xxxv)	Pedal Operated Ice Crusher	01 unit
xxxvi)	Women Friendly Fish Vending Unit	01 unit

It is worth mentioning that all technologies developed by AICRP on PHET have not been included due to obvious reasons of redundancy with time, non-availability of information due to change/transfer of Research Engineers/ Scientists and closer of centres. Here, the entire gamut of post-harvest technologies (201 Nos) have been presented according to four broad sectors, i.e., Food grains and oil seeds sector (43 technologies); Horticultural crops sector (104 technologies); Livestock produce/products sector (19 technologies); Jaggery and Khandarisector (35 technologies). Details of technologies/machinery/tools etc are presented in Chapter

Success story of Agro-Processing Centres (APC)

The concept of APC models was pioneered by AICRP on PHET, which is appreciated by some of the national and international organizations. The centres of AICRP on PHET have been working on establishment, monitoring and promotion of Agro-processing Centres (APC) in the production catchment for value addition of agricultural produce and post-harvest loss reduction, while enhancing the profitability of farmers/entrepreneurs and providing gainful employment. The action plan for Agro-processing centres basically comprises primary processing of the surplus agricultural produce in the production catchment itself, carried out by the rural entrepreneur. Establishment of APCs have been undertaken by Centres of AICRP on PHET such as Akola (Maharashtra), Almora (Uttarakhand), Bapatla (Andhra Pradesh), Bangalore (Karnataka), Bhubaneswar (Orissa), Coimbatore (Tamil Nadu), Jabalpur (Madhya Pradesh), Jorhat (Assam), Junagadh (Gujrat), Kasargod (Kerala), Ludhiana (Punjab), Pantnagar (Uttarakhand), Solan (Himachal Pradesh), Tavanur (Kerala) and Udaipur (Rajasthan). Initially equipment and machinery were supplied by the AICRP and trained the rural farmers and entrepreneurs to adopt the developed technologies for the crops grown in the region. In latter stage, these centres have identified and motivated potential entrepreneurs, gave technologies and helped them in selection of processing equipment and their installation operations on their own cost, depending on the crops grown and marketable surplus of their farm produce and consumers demand.

Usually rural farmers sell their raw produce to middleman at low price, and subsequently buy processed products at high price from urban market. The APC established with objectives of providing income and employment opportunities in the rural catchments and checking capital drain and labour migration from rural to urban areas. Besides, the APCs have been recognized as

effective tool for women empowerment in rural and peri-urban areas. APCs managed only by women entrepreneurs and women workers have been established by Bangalore, Bhubaneswar and Coimbatore centres. These APCs have been quite effective in post-harvest loss reduction, value addition, income augmentation as well as employment generation in rural areas. AICRP on PHET had established 140 APCs in various parts of the country so far as. The established APCs with their full addresses state-wise are tabulated below.

Sr. No.	State	AICRP on PHET Centres	APC established (No)
1	Maharashtra	PDKV Akola	10
2	Uttarakhand	VPKAS Almora	1
		GBPUA&T Pantnagar	2
3	Karnataka	UAS Bangalore	16
		UAS Raichur	12
4	Madhya Pradesh	JNKVV Jabalpur	3
		ICAR-CIAE Bhopal	1
5	Andhra Pradesh	ANGRAU Bapatla	1
6	Orissa	OUAT Bhubaneswar	10
7	Tamil Nadu	TNAU Coimbatore	4
8	Haryana	CCS HAU Hisar	3
9	Assam	AAU Jorhat	5
10	Gujarat	JAU Junagdh	3
11	Kerala	CPCRI Kasargod	1
		KAU Tavanur	3
12	West Bengal	IIT Kharagpur	1
13	Punjab	PAU Ludhiana	46
14	Uttar Pradesh	ICAR-IISR Lucknow	3
15	Bihar	RAU Pusa	1
16	Chhattisgarh	IGKVV Raipur	1
17	Himachal Pradesh	YSPUH&F Solan	2
18	Kerala	KAU Tavanur	2
19	Rajasthan	MPUAT Udaipur	4
20	Srinagar	SKAUST & T Srinagar	5
	Total		133

Economic return, in a study conducted by Nanda et al. (2013), was found to be about Rs. 524526 per annum to an entrepreneur through these APCs. On an average, one APC is able to generate 10 persons employment (direct, 4 nos + indirect, 6 Nos) for a period of 240 days in a year. The indirect benefits to society are realized in terms of additional income to persons who are engaged in the

supply of raw material and marketing of food and value added products as well as through saving to the consumers and/or retailers as a result of enhanced recovery and reduction in logistic cost. The replication of this model throughout the country with due caution of demand and supply can bring prosperity in rural areas.

Patents

In initial satge of AICRP (ICAR) was not so serious about intellectual property rights and almost all technologies, package of practices, machines' design etc were being given fire of cost. It was for the farmers and therefore culture of filing patents and publishing research papers were not so prevalent. With time ICAR has also given importance to IPR and publications of research papers and so the AICRP on PHET. Patents therefore have only been filed for the technologies having potential of commercialization by private companies and organization. A few of them are listed below:

- The unique tapered horizontal leather belt roller for cleaning of different grains using dal milling devices vide patent application No. 1855/MUM/2013, AKOLA.
- The unique tapered horizontal emery roller for dal milling devices, vide patent application No. 1856/MUM/2013, AKOLA.
- Novel ethosorb process for enhancing shelf-life of green banana, vide patent application No. 1857/MUM/2013, AKOLA.
- Mechanized Jaggery Granulator for producing jaggery granules vide patent application No. 1265/CHE/2013, ANAKAPALLE.
- Large scale drying of chillies in barns vide patent application No. 1403/CHE/2005, BAPATLA.
- Design of Multipurpose Solar Dryer vide patent application No.1811/CHE/2009, BAPATLA.
- Onion Umbel pre thresher, thresher and pre cleanervide patent application No, 5413/CHE/2014, COIMBATORE
- Cleaner for onion seedvide patent application No 5417/CHE/2014, COIMBATORE
- Carrot washer, Patent filed and obtained with Sh. Krishan Jangra, Manufacturer, HISSAR
- Tender nut punch and cuttervide patent application No 233744, KASARGOD
- Partially dehydrated coconut de-shelling machine vide patent application No233742, KASARGOD

- Coconut/Arecanut climbing device vide patent application No 268548, KASARGOD
- Shell fired copra dryer vide patent application No 269186, KASARGOD.
- A system for extraction of essential oil from plants/parts thereof bearing essential oil vide patent application No, 202600, KHARAGPUR
- Rapid conditioning unit for raw cashew kernels. Applied, KHARAGPUR
- Mechanized cashew kernel peeler. Applied, KHARAGPUR
- Production of Probiotic Fruit Juices from guava, kinnow and mango vide patent application No 614/DEL/2013, (Applied), LUDHIANA
- Precision Computation of Automatic Weather Station Data vide patent application No. L-47275/2013, LUDHIANA
- Women Friendly Fish Vending and Display Unit vide patent application No IPR/FA/13013, MANGALORE
- Retail Chicken Slaughter Unit vide patent application No. 1842/MUM/2014, dated 01/04/2014, MUMBAI.

Awards and Recognitions

Best Paper Award conferred to Lakshmi, R., B. Ranganna and K.B. Suresha , (2015). Development of jamun (*syzygium cumini* L.) fruit blended set and stirred yoghurts, National Conference on “Research Strategies, Technologies and Upcoming Challenges in food Science and Biotechnology for Healthier Life (RTCFSB – 2015)” held at Kongu Engineering College, Perundurai, Erode, on September 2015.

Best Poster Award conferred to Pampanagouda, K.B.Munishamanna and Shivabasu Khanagodar,(2015). Development of pearl millet (*Pennisetum glaucum*) based probiotic beverage by fermentation with *Saccharomycesboulardii* and *Lactobacillus acidophilus*.(Awarded First prize for Poster presentation, Proceedings of ICETF-2015 FEB-P-02, pp 68).

Doordarshan Sahyadri Award (2015) conferred to Smt. Sarita Shyamsundar, Kanzara, Tq. Murtizapur, Dist. Akola (Handicapped, Lady, Widow entrepreneur established and running successfully Agro Processing Centre under the technical guidance of AICRP on PHET, Dr. PDKV, Akola.

Krishi Gaurav Award (2015) conferred to Dr. P.A. Borkar, Research Engineer, AICRP on PHET
Dr. PDKV, Akola

Outstanding Poster Appreciation Award (2015) conferred to Dr Surekha Bhatia, Green packaging for foods: An environment friendly perspective during Regional Seminar on “Geospatial technology in natural resource management” organized by ISRS at PRSC, Ludhiana.

Best Poster Award conferred to D. Bhaskara Rao, S. V. S. Gopala Swamy and R. Lakshmiopathy (2014). Effects of ‘Phailin’ and ‘Helen’ cyclones on paddy at West Godavari District. Submitted in the National Seminar on “Climatic Change – Crop Improvement and Management Strategies for Food Security” organized by Department of Genetics and Plant Breeding and Department of Agronomy at Agricultural College, Bapatla on 25th March, 2014.

Best Poster Award conferred to Shwetha, M.S., Ranganna, B., Munishamanna, K.B and Kalpana, B (2014) on Development of Jackfruit squash-A value added product for rural cottage industries at the First National Student Conference on Food Technology (SCOFTECH-2014) held at IICPT, Thanjavur, India.

Best Research Worker Award (Machinery/Equipment development) (2014) conferred to Dr. A.C.Mathew, by Coconut Development Board, Kochi in recognition of his significant contribution in developing processing gadgets/equipment and technologies for development of value added products like virgin coconut oil, coconut chips and labour saving machineries for pre and post-harvest operations.

Commendation medal of Indian Society of Agricultural Engineers (2014) conferred to Dr. Sanjaya Kumar Dash.

Mahindra Krishi Samridhi Award (2014) conferred to Dr. PDKV, Akola for PKV Mini dal mill technology.

TNAU Best Teacher Award (2014) conferred to Dr.M.Balakrishnan, Coimbatore

Certificate of Merit and Cash Award (2013) conferred to Mr K.B, Munishamanna, B. Kalpana, K.B. Suresha and V. Palanimuthu, for the project on “A Value Chain on Jackfruit and its Value Added Products”, at the Foundation Day on 5th October 2013, at UAS, GKVK by UAS, Bangalore.

Distinguished Service Certificate (2013) conferred to Dr.M.R.Manikantan, by Indian Society of Agricultural Engineers for his outstanding contribution in the field of Agricultural Processing and Post Harvest Technology.

TNAU Best Teacher Award (2013) conferred to Dr.V.Thirupathi.

Women Scientist award (2013) conferred to Sheela Pandey, given by M.P. council of Science and Technology.

Distinguished services Certificate Award (2012) conferred to Dr. M.S. Alam, for Outstanding contribution in the field of Agricultural Engineering by National Society “Indian Society of Agricultural Engineers (ISAE).

Dr.I.V.Subba Rao Rythu Nestham Purakshram (2012) conferred to Dr.P.V.K.Jagannadha Rao, Special function held at FAPCCI Bhavan, Hyderabad organized by Rythunestham Monthly Magazine.

Rashtriya Gaurav Award (2012) conferred to Dr.P.V.K.Jagannadha Rao, Special function held in Constitution Club, Rafi Marg, New Delhi by the India-International Friendship Society, New Delhi.

Best paper (GOLD MEDAL) (2011) conferred to Dr (Mrs) K Rayaguru and Dr Md K Khan, Agricultural, Mechanical and Environmental Engineering Division during the 56th Annual session of Orissa Engineering Congress held on 26th February,2011,at Bhubaneswar.

Best Poster Award (2011) conferred to Dr D K Sharma, Studies on Flow behaviour of multifloral melliferous honey (First prize) at honey festival-cum-experience exchange workshop organised at Pau, Ludhiana.

Best Poster Award (2011) conferred to Er. Sandhya, Production constraints of Beekeepers in Ludhiana district (Second Prize) at honey festival-cum-experience exchange workshop organised at pau, Ludhiana.

Best Poster Award conferred to Dr D K Sharma (2011). Studies on Flow behaviour of multifloral melliferous honey, first prize for best poster at honey festival-cum-experience exchange workshop organised at pau, Ludhiana.

Best Poster Award conferred to Dr D K Sharma (2011). Studies on Flow behaviour of multifloral melliferous honey, first prize for best poster at honey festival-cum-experience exchange workshop organised at pau, Ludhiana.

Best Research Team award (2011) conferred to Dr Md K Khan, Dr (Mrs) K Rayaguru , Dr U S Pal , Dr C K Bakhara and N R Sahoo, 45th ISAE Annual convention cum international symposium at PDKV Nagpur campus .

Kunwar Saxena Bahadur SRDA Award (2011) conferred to Dr. M.S. Alam, for Outstanding contribution in the field of Processing and Food Engineering by Society for Recent Development in Agriculture at International conference held at SVPUA&T, Meerut.

Second prize (2011) conferred to U S Pal and Dr Md K Khan for article in Electrical and Electronics Engineering Division during the 56th Annual session of Orissa Engineering Congress held at Bhubaneswar.

The Best Citizens of India Award (2012) conferred to Dr.P.V.K.Jagannadha Rao, International Publishing House, New Delhi, is the world's most leading biographical specialists.

ICAR Team Research Award (2011-12) conferred to Dr. G.Padmaja, Dr.J.T.Sheriff, A.N.Jyothi and Ms. L. Rajalekshmi, for Outstanding Interdisciplinary Team Research in Agriculture and Allied Sciences.

Young Scientist Award in Social Sciences (2010) conferred to Dr. Anil Kumar Dixit on 3rd May 2011 during National Symposium on Technological Interventions for Sustainable Agriculture by Indian Society of Hill Agriculture.

Samant Chandrasekhar award (2010) conferred to Dr Md K Khan from Odisha Vigyan Academy, Bhubaneswar, Orissa .

Shiksha Rattan Puruskar (2010) conferred to Dr. M.S. Alam, for Meritorious services, Outstanding Performance and Remarkable role in the Profession, from India International Friendship Society, New Delhi by Governor of Tripura.

Young scientist Award (2010) conferred to Er.P.Sreedevi, Acharya N.G.Ranga Agricultural University for the year 2009.

Best Poster Award conferred to Dr. M.S. Alam (2009). Post harvest management and value addition, International Conference on 'Grain legumes, quality improvement, value addition and trade held at Indian Institute of Pulse Research, Kanpur.

Lal Bahadur Shastri Young Scientist Award for the Biennium 2007-08 (2009) conferred to Dr. M.S. Alam, for Outstanding contribution in the field of Agricultural Engineering

Young Scientist Award (2009) conferred to Dr. M.S. Alam, For outstanding/ innovative research in the field of applied sciences from Punjab Academy of Sciences, Patiala during 12th Punjab Science Congress held at PAU, Ludhiana.

Best Research Team award (2009-10) conferred to Dr Md K Khan, Dr (Mrs) K Rayaguru , Dr U S Pal , Dr C K Bakhara and N R Sahoo from ISAE for 2009-10.

Best Scientist Award (2008) conferred to Dr. (Mrs) K. Rayaguru, by OUAT, Bhubaneswar.

Best Teacher Award (2008) conferred to Dr. Sanjaya Kumar Dash by OUAT, Bhubaneswar.

Gold medal and citation for research work (for the year 2005-06) conferred to Dr. P. Jamuna, 'Organic Farming in sugarcane in A.P.' donated by Smt. V.R. Durgamba Charitable in 2007.

Best Chapter Award (2006-07) conferred to Dr. M.S. Alam. Overall performance in terms of professional activities.

Best M Tech thesis by Indian National Academy of Engineers (2006) conferred to V K Sehgal, Award for guiding M.Tech student.

Certificate of Achievement by Indian Society for Technical Education (2006) conferred to V K Sehgal, for having guided the Best M.Tech Thesis (Ist Prize)

Distinguished Services certificate (2006) conferred to Dr. Sanjaya Kumar Dash by Indian Society of Agricultural Engineers

Fellow' of Institute of Engineers, India (2006) conferred to V K Sehgal, For Outstanding contribution in the field of Agricultural Engineering.

Acharya N.G. Ranga Agricultural University Meritorious Research Scientist Award (2002-03) conferred to Dr.P.V.K.Jagannadha Rao in 2005.

Sri.Konathala Ramunaidu B.Com., Memorial Prize and adjudged as "Best Research Officer" (2003). Dr.P.V.K.Jagannadha Rao.

Alapati Venkata Krishnaiah Memorial Prize (1996). conferred to Dr.S.Ramakrishna Rao, for eminent scientist in Agricultural Sciences.

Vocational award (1996) conferred to Sri C.Lakshminarayana, for excellence in profession from Rotary club, Anakapalle.

M/s KCP Limited Prize (1993) conferred to Dr.S.Ramakrishna Rao, for outstanding research work on Sugarcane in A.P.

Research scientist Award (1993) conferred to Dr.S.Ramakrishna Rao, of AP Agricultural University.

Publications in refereed Journals, Workshop, Symposia, Conferences Proceedings

A attempt has been made to pool scientific capital generated in post-harvest engineering and technology sector under AICRP on PHET. The scheme initiated in mid of seventies with ten centres and interestingly good publications emerged in 1976, just after four years of inception. Over a period of time, AICRP on PHET has attained heights and spread wings across the country. The growth is evident from technology generated, probably largest among AICRPs and correspondingly to the body of scientific knowledge. Althoghter, 1263 number of research papers covering wider aspects of post-harvest machinery, processing and value added products, storage, food safety and quality, biotechnological aspects, mathematical modeling and simulation, entrepreneurship development and impact assessment are listed, as below. The number of research papers published in journals and workshop/symposia /conferences proceedings, etc have been presented under five sections, viz., (i) Food Grain and Oil seeds, (ii) Horticultural crops, (iii) Jaggery and Khandsari, (iv) Livestock and (v) others.

S No.	Sector	Research papers in selected referred journals	Papers in Workshop/Symposia /Conferences/ Proceedings	Total
i.	Food Grains & Oilseeds	204	147	351
ii.	Horticulture Crops	379	248	627
iii.	Livestock	22	35	57
iv.	Jaggery & Khandsari	32	49	81
v.	Others	92	55	147
	Grand Total	729	534	1263

Needless to mention, all publications could not be compiled due to various reasons such as non-availability of old references, retirements of Research Engineers and scientists and closer of some centres. A perusal of data, as mentioned above, clearly revealed that the scientists gave due emphasis on publishing in referred journals. Horticulture crop processing sector has highest publications (379 nos in referred journals and 248 others) followed by food grains and oilseed processing. The detailed sector-wise list publications compiled and placed as Appendix-1.

5. Externally funded projects

AICRP on PHET is unique amongst all the AICRP of ICAR in way that it has also conducted various externally funded projects of National Importance funded by other ministries and assigned by Standing Parliamentary Committee on Agriculture. It has conducted first time a scientific detailed study for assessment of quantitative harvest and post-harvest losses of 46 major crops and commodities of India twice and is also doing this job for Food Corporation of India to fix a national norms for loss or gain of wheat, rice and maize. Brief of each of them are presented hereunder.

i. Assessment of Quantitative Harvest and Post-harvest Losses of Major Agricultural Crops and Commodities Studies (2005-09) – Assigned by Parliamentary Standing Committee on Agriculture

Securing an adequate food supply has been the fundamental concern of the mankind over the millennia and saving food means growing more food. Now, preserving what has been produced has become inevitable to attain food security. There are appreciable losses at each stage of harvest and post-harvest handling and storage of food and prevention of postharvest losses became important not from economic, social and environmental point of view. Moreover it is a moral obligation to avoid waste. Thus we need information on the extent of losses during the harvest and post harvest operations so that the scientists and policymakers can work out modalities and strategies to curtail these losses in order to ensure national food security.

In this backdrop, Parliament Standing Committee on Agriculture (PSCA) in May, 2005 urged the Indian Council of Agricultural Research (ICAR) to assess the Harvest and Post- Harvest Losses of Major Crops and Livestock Produce in India. Accordingly, ICAR through this All India Coordinated Research Project on Post-Harvest Technology (AICRP on PHET) network had carried out survey (December 2005 to Feb 2007) for 46 agricultural crops/commodity in 14 Agro climatic Zones (ACZ) of India. The final report was presented to the PSCA on June 10, 2010 and subsequently, report published by Nanda et al., 2012. The study was unique not only in terms of wider coverage of geographical area and crops/commodities but also in its methodological approach, using both enquiry and observation methods. It is evident from the report that the annual value of post-harvest loss at national level was to the tune of ₹ 27802

crores per annum (i.e., ₹ 7614 crores in cereals, ₹ 999 crpres in pulses, ₹ 3800 crores in oilseeds, ₹ 5694 crores in fruits and ₹ 3972 crores in vegetables, ₹ 1631 crores spices and plantation crops and ₹ 4902 crores in livestock produce) at national level, based on production data of 2005-06. Further, with reference to the production year 2007-08 and wholesale prices of year 2009, the total economic value of losses of crops and livestock produce have been calculated and found to be about ₹ 44143 crore. The quantitative post-harvest loss in cereals ranged 3.9 percent (sorghum) to 6.0 percent (wheat); in oilseeds 2.8 (cottonseed) to 10.1 (groundnut); in fruits ranged 5.77 percent (spota) to 18.05 percent (guava); whereas, in case of vegetables, it ranged from 6.88 percent (cauliflower) to 12.98 percent (tomato). In case of livestock it ranged from 0.8 percent (milk) to 6.9 percent in inland fishery.

ii. Central Sector Scheme on Post-harvest technology and Management (CSS-PHTM), Demonstration (Component-III) and Training (Component-IV) – sponsored by Department of Agriculture and Cooperation

Central Sector Scheme was one of the thrust area approved by Prime Minister's Office (PMO) for the Department of Agriculture and Cooperation (DOAC), Ministry of Agriculture (Now Ministry of Agriculture and Farmer Welfare) during the XI Five Year Plan and the scheme was implemented by AICRP on Post-Harvest Engineering and Technology with the view to promote Post-harvest Technology. The Central Sector Scheme aimed to focus on lower end of the spectrum of Post-Harvest Management. This scheme consisted of four Components and only two components, i.e., Demonstration of Post-Harvest Technologies (Component- 3) and Training of Farmers, Entrepreneurs and Scientists (Component- 4) were given to AICRP on Post-Harvest Engineering and Technology. Total budgetary support of Rs. 247.77 lakh was given by DoAC under Component- 3, Demonstrations of proven technologies developed by AICRP on PHET Centres were taken up in the production catchments. The suitable technologies for demonstration and selection of sites were made depending upon easily accessibility and requirement of the farming community. Demonstrations of various manual operated and power operated machines were undertaken in the states of Karnataka, Kerala, Maharastra, Rajasthan Tamil Nadu and Uttatakhnd during 2008-09 to 2010-11. It is interesting to note that more than 11270 farmers were benefited and among them around 34 percent were women.

The very purpose of Component-4 was to develop the Human Resources in Post-Harvest Management. Therefore farmers were trained to improve upon the technical know-how pertaining to post-harvest technologies for its proper and effective utilization. Besides, manufacturers were encouraged to take up the commercial production of post-harvest technologies. Scientists, extension and other government officers were also trained to further straighten the lower end of the spectrum of Post-Harvest Management. Training manuals were also prepared and distributed among the participants during the training programmes. Around 40 trainings were imparted which had covered the state of Kerala, Maharashtra, Karnataka, M.P, Orissa, Tamil Nadu, Rajasthan, Gujarat, Punjab, Haryana, Himachal Pradesh, and West Bengal, Uttarakhand. Synergic impact of these two programmes with AICRP on PHET was evident. The impact in terms of promoting processing activities was rated high in some of the cases. Besides, 19 post-harvest equipment/ tools procured by cooperating centres and distributed to KVKs.

iii. Repeat Study on Assessment of Quantitative Harvest and Post-harvest Losses of Major Agricultural Crops and Commodities Studies (2012-15) – Sponsored by Ministry of Food Processing Industries

AICRP on Post-Harvest Engineering and Technology (ICAR) has taken another survey project on harvest and postharvest losses of major agricultural crops/commodities funded by Ministry of Food Processing Industries. Since the nature and extent of harvest and post-harvest losses varies from crop to crop and reason to reason and season to season, hence, a repeat study on assessing the harvest and post-harvest losses of 45 crops and livestock produce was taken-up using methodology developed under previous study to see the impact of post-harvest technologies developed and adopted in the production catchments. This study provides the estimates of losses in various operational and storage in different channels and also provides how the harvest and post-harvest loss changed over a period of time. The study was initiated in February 2012 with a budget provision of Rs. 539.91 lakh and project successfully completed in March 2015. The report was timely submitted to MoFPI after reviewed by peers and Union Minister of Food Processing and Industries and accepted by the MoFPI. The losses estimated in cereals were in the range of 4.65% (Maize) to 5.99% (Sorghum) whereas, in pulses ranged from 6.60% (Green gram) to 8.41% (Chick pea). Use of improper threshers, delayed harvesting and improper storage practices were probably the main reasons of losses in pulses. Estimated losses of oilseeds ranged from 3.08% (Cottonseed) to 9.96% (Soybean). The losses in case of fruits ranged from 6.70% (Papaya) to 15.88% (Guava) whereas, in vegetables varied from 4.58% (Tapioca) to 12.44% (Tomato). In plantation crops and spices, the losses ranged from 1.18% (Black pepper) to 7.89% (Sugarcane). The losses of 7.19% (egg), 5.23% and 10.52% in inland fish and marine fish, respectively. The loss in sheep and goat meat was 2.71% whereas the loss in poultry meat was 6.74%. The loss of milk was observed to be 0.92%. In comparison to losses during 2005-07, the losses during 2013-14 have been reduced significantly for wheat, mustard, groundnut, mango, guava, mushroom, tapioca, arecanut, black pepper and coriander. Whereas, the estimated losses were significantly increased in comparison to 2005-07 for maize, sorghum, chickpea, soybean, sunflower, citrus, sapota, cauliflower, cashew, marine fish, meat and poultry meat. For remaining commodities, the changes in loss were statistically non-significant at 5% level of significance. Averaged range of losses altogether for food grains, oilseeds and fruits and vegetables were found to be 4.65% to 15.88%, which indicate that overall losses have gone down by about 2% as compared to previous study in 2005-07 despite tremendous increase of production in last 10 years. The economic value of harvest and post-harvest losses of major

agricultural and livestock produce was also calculated using production data of 2012-13, average wholesale prices of 2014, and results of this study. The estimated annual value of the losses is about Rs 92651 crore (Jha et al., 2015). The study suggested R&D interventions and investment in post-harvest infrastructure and mega Food Park along with appropriate policy and entrepreneurship /skill development programme for further reduction of losses.

iv. Tribal Sub-Plan (TSP)

The basic objectives of the Tribal-Sub Plan (TSP) was to bring substantial reduction in poverty and unemployment, creation of productive assets in favour of Scheduled Tribes to sustain the growth likely to accrue through development efforts, human resource development of the Scheduled Tribes by providing adequate educational and health services, and provision of physical and financial security against all types of exploitation and oppression. The major objective was to ensure the much needed flow of funds and benefits for the welfare and development of these two categories in proportion to their population

Programs namely training and demonstrations in this Plan was undertaken by 14 AICRP on PHET centres in 13 districts as given below.

State-wise name of districts in which TSP Component undertaken

State	District	AICRP on PHT Centre looking after
Andhra Pradesh	Prakasam, Guntur, Krishna	Bapatla
Chhattisgarh	Bastar, Kanker, Gariaband	Raipur
Gujarat	Gir-somnath	Junagadh
Himachal Pradesh	Chamba, Kinnaur	Solan
Jharkhand	Ranchi, Giridih, East Singhbhum, Latehar	Ranchi
Karnataka	Chamarajanagar	Bangalore
	Raichur, Yadgir, Koppal, Bellary	Raichur
Madhya Pradesh	Satna	Jabalpur
Maharashtra	Akola, Washim, Buldhana	Akola
Odisha	Gajapati, Kandhamal, Koraput, Deogarh, Keonjhar, Mayurbhanj	Bhubaneswar
Rajasthan	Udaipur, Banswara, Chittoregarh	Udaipur
Tamil Nadu	Coimbatore	Coimbatore
Uttar Pradesh	Lakhimpur	Lucknow
West Bengal	West Medinipur	Kharagpur

Training and demonstrations were conducted on various post-harvest technologies viz., processing and value addition of cereals, pulses, oilseeds, spices, horticultural crops and demonstration on various post-harvest machinery. Some topics covered so far are sand puffing and roasting of cereal grains like rice, maize and Bengal gram, safe storage of food grains, processing and value addition of mushroom, pineapple, mahua, root crops, tamarind, aonla, betel leaves, extraction of pulp and juice, preparation of jam and chutney from fruits, dehydration of fruits, development of beverages from fruits, extraction of oil from wild apricot, preparation of pickles from green mango, chilli, carrot, beans and mixed vegetables, preparation of tomato sauce and puree, preparation of grapes squash, preparation of mixed fruit jam, processing and value addition of non-timber forest produce (NTFP), demonstration of post-harvest machinery, e.g. banana fibre extractor, dhal mill and millet pearler, etc. **Under this programme, 25 trainings and 29 demonstrations were conducted and around 895 individuals from 133 villages were found to be benefitted.**

v. Study on determining storage losses in food grains in FCI and CWC warehouses and to recommend norms for storage losses in efficient warehouse management

The project is underway by 20 centres of AICRP on PHET. The aim of study is to identify the extent of storage losses in food grains (wheat, paddy, rice and maize) in FCI and CWC warehouses; to identify the factors responsible for losses in storage; arriving at storage loss norms in different agro-climatic regions/ State with respect to various factors and the factors responsible such losses, to suggest ways and means to reduce the extent of storage losses in different unit operations. The project was started in July 2013 with a budget provision of Rs.320.53 lakh and likely to complete by June 2017.

6. Impact assessment of Post-harvest technologies developed under AICRP on PHET

An assessment of economic and other social benefits of technologies from AICRP on PHET Centres have been made based on the feedback of beneficiaries/users as well as response of the scientists who has developed the technology. The results depict that these technologies are found to be helpful in reduction of post-harvest losses, achieving timeliness post-harvest operations and value addition and reduction of drudgery. The impact in terms of economic benefits of the

technologies of AICRP on PHET was worked out to be Rs. 181.90 crore/year (Nanda et al., 2013).

The summary of economic impact of selected technologies is given as:

Summary of economic impact of selected technologies

Sl. No.	Equipment and technologies developed	Economic benefits as contributed by technologies of AICRP on PHT (in Rs lakh)/year
Post Harvest Machinery and Equipment		
1.	PVK Mini dal mill (Akola centre)	14900.00 (1853 to entrepreneurs+13047 to society/ consumer)
2.	Vivek thresher-cum-pearlier (Almora centre)	159.34 (145.91 to entrepreneurs + 13.44 to society/consumer)
3.	Multi purpose grain mill (Bhopal centre)	2.63
4.	Mini dal mill (Bhopal centre)	80.66
5.	Pedal cum power operated grain cleaner (Bhopal Centre)	276.26
6.	Groundnut decorticator (Bhopal centre)	509.00
7.	Household paddy parboiling unit (Coimbatore centre)	28.75
8.	Insect trap for stored grains (Coimbatore centre)	72.00
9.	TNAU Mini dal mill (Coimbatore centre)	7.28
10.	Grain puffing machine (Kharagpur centre)	6.71
11.	Mini dal mill (Pantnagar centre)	20.65
12.	Maize dehusker cum sheller (Udipur centre)	25.05
13.	PKV chilli seed extractor (Almora centre)	6.16
14.	PKV fruit grader (Akola centre)	7.42
15.	Tamarind dehuller-deseeder (Bangalore centre)	70.02
16.	Manual arecanut dehusker	57.41
17.	White peeper making machine (Bangalore centre)	398.31
18.	Turmeric Polisher (Bapatla centre)	1.82
19.	Multipurpose polyhouse solar dryer (Bapatla centre)	10.62
20.	Fluidized bed drier for mushroom (Coimbatore centre)	2.53
21.	Improved farm level turmeric boiler (Coimbatore centre)	116.00
22.	Manual operated aonla pricking machine (Hisar centre)	0.25

23.	Cumin cleaner- cum- grader (Junagarh centre)	2.38
24.	On Farm Fruit Grader (Junagarh centre)	1.62
25.	Farm level fruit and vegetable washing machine (Ludhiana)	31.06
26.	Electric-cum cum-battery heated uncapping knife (Ludhiana centre)	1.56
27.	Power-cum-hand operated 8-frame radial honey extractor (Ludhiana centre)	3.29
28.	Solar Tunnel Dryer (Raichur centre)	21.92
29.	Hand operated cassava chipping machine (Trivendrum centre)	38.37
30.	Garlic bulb breaker (Udaipur centre)	6.85
31.	Improved four roller sugarcane crusher (Coimbatore centre)	7.18
	Process and Product Development	
32.	Safe storage of pulses using sand layer (Bangalore centre)	0.60
33.	Osmo-dehydrated pineapple slices/ rings (Bhubaneswar centre)	1.28
34.	Extraction of apricot kernel oil (Solan centre)	10.69
35.	Aloe vera processing technology (Udaipur centre)	27.44
36.	Garlic dehydration technology (Udaipur centre)	17.06
37.	Bottling of sugarcane juice (Coimbatore centre)	9.00
38.	Production of Cube Shaped Jaggery (Lucknow/Anakapalle)	1.62
39.	Agro Processing Centres (APC=82 Nos),	1250 (430 to entrepreneurs +820 to society/consumer)
	Total	18190.79

Source: Nanda S.K., Dixit, A.K. and Kudos SKA (2013). *Impact Assessment of Technologies from AICRP on PHT Centres. All India Coordinated Research Project on Post Harvest Technology (ICAR).*

Further, the entrepreneurs of selected commercialized technologies were found satisfied on economic and social aspects, as examined from feedback. Intangible benefits to the entrepreneurs as well as to the society were most prominently noticed in case of Agro-processing centres. For instance, high level of satisfaction with the present work/profession, quality of their life, motivation towards group approach, and enhancement of income from animal husbandry.

The fact that AICRP on PHET has brought economic benefit to users and to the society as well, should be inspiring to enhance our efforts in developing new technologies and dissemination of potential technologies.

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