GOVERNMENT OF INDIA MINISTRY OF AGRICULTURE AND FARMERS WELFARE DEPARTMENT OF AGRICULTURAL RESEARCH & EDUCATION

LOK SABHA UNSTARRED QUESTION NO. 2396 TO BE ANSWERED ON 02/01/2018

RESEARCH PROJECTS UNDER ICAR

2396. SHRI RADHESHYAM BISWAS:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि और किसान कल्याण मंत्री be pleased to state:

- (a) the details of research centres and projects undertaken by the Indian Council of Agricultural Research (ICAR) in the country including rural and backward areas, Statewise;
- (b) the details of the expenditure incurred by the Government on the said centres and the projects during the last three years and the current year;
- (c) whether agricultural production has increased from the said centres; and
- (d) if so, the details thereof along with the steps taken by the Government to promote the research in agriculture sector?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE AND FARMERS WELFARE कृषि और किसान कल्याण मंत्रालय में राज्य मंत्री

(SHRI GAJENDRA SINGH SHEKHAWAT)

(a) & (b): Indian Council of Agricultural Research (ICAR) has overall 103 institutions (Research Institutes 68, Bureau 6, Directorates 14 and National Research Centres 15) and 81 All India Coordinated Research Projects (AICRPs)/Network Projects (NPs) in the areas of field and horticultural crops, animal species, Fisheries, Engineering, Natural resources management and several other areas of research that are in operation spreading all over the country including rural and backward areas. The funds are allocated project/scheme-wise and not the institute or state wise as some of the schemes are running in more than one state which are running under these Institutions. The state wise list of the ICAR Institutes is given in Annexure-I, List of AICRPs/NPs is given in Annexure-II and the details regarding the expenditure incurred by the Government on the research centres is given in enclosed as Annexure-III.

(c) & (d): Yes, Madam.

- The ICAR has played a pioneering role in ushering Green Revolution and subsequent developments in agriculture in India through its research and technology development that has enabled the country to increase the production of food grains by 5 times, horticultural crops by 9.5 times, fish by 12.5 times, milk 7.8 times and eggs 39 times since 1951, thus making a visible impact on the and nutritional security. The research Institutes/Centres/AICRPs have led to the development and released of 672 high yielding, stresses (biotic & abiotic) tolerant varieties/hybrids in different field crops for cultivation under different agro-climatic conditions during 2014-2017. Approximately, 350514 quintals of breeder seeds of improved varieties of field crops and 18.5 lakh grafted plants, 12 lakh rooted cuttings and tuber crops, 90 tonnes of breeder/truthfully labelled seeds of vegetable crops, 5500 tonnes of breeders seed of potato and tropical tuber crops were produced and distributed during 2014-15 to 2016-17 for sustaining the effective seed chain in the states. These varieties and improved management practices have contributed significantly in increasing the production in field crops e.g. the production of total food grain increased from 252.02 million tons in 2014-15 to 275.68 million tons in 2016-17. In case of individual commodity also the increased production is recorded like, rice production has increased from 105.48 million tonnes in 2014-15 to 110.15 million tonnes in 2016-17, wheat production increased from 86.52 million tonnes in 2014-15 to 98.38 million tonnes in 2016-17. Similarly the research achievements in pulses led to the increase in pulses production from 17.15 million tonnes in 2014-15 to 22.95 million tonnes in 2016-17. The vegetable production increased from 166.6 million tonnes in 2014-15 to 176.2 million tonnes in 2016-2017. Similarly fruits production increased from 89.5 million tonnes in 2014-15 to 93.7 million tonnes in 2016-2017.
- During the last 3.5 years ICAR developed and released 13 improved poultry, pig and sheep varieties/breeds which include; 4 backyard poultry: Kamrupa in Assam, Narmadanidhi in MP, Jharsim in Chhattisgarh and Himsamridhi in HP; 8 pig varieties: HD-K75, Rani and Asha in Assam; Jharsuk in Jharkhand; Mannuthy White in Kerala; Lumsniang in Meghalaya; TANUVAS KTM Gold Crossbred Pig (Large White Yorkshire x Desi) in Tamil Nadu and "SVVU-T 17 Crossbred Pig", (Large White Yorkshire x Desi) in Telangana besides one prolific and high producing breed of sheep 'Avishan'
- To increase productivity, reduce cost of cultivation, reduce drudgery, improve value addition, conserve resources and provide alternate means for energy generation through improve farm mechanisation, ICAR developed 72 new farm equipment/machines/gadgets and 34 new products/ process protocols and supplied over 16500 prototypes of agricultural machinery to farmers/ entrepreneurs. Due to these efforts steady growth has occurred in adoption of efficient manually operated tools, animal operated implements, and equipment operated by

mechanical and electrical power sources in the country. ICAR trained 710 rural youth for establishing Custom Hiring Centres in different parts of the country out of which 652 entrepreneurs established Custom Hiring Centres. ICAR equipped 194 startup companies and agri-entrepreneurs by providing necessary training and skills to start their new agri-ventures.

- ICAR has developed and validated 623 district contingency plans and conducted skill development programs for 40.9 lakh farmers. *Mridaprarikshak* a minilab for soil analysis developed to support Government's initiative of Soil Health Card. ICAR has also developed 45 Integrated Farming Systems (IFS) models in 23 states and 1 Union Territory covering all the 15 agro-climatic regions of the country. These models were tested and further validated in the fields of 1250 farmers each under various different agro ecologies covering 23 states of the country.
- For delivering the benefits of research to the farmers, the ICAR has established a network of 681 Krishi Vigyan Kendras (KVKs) in the country. Through this network the technologies/ products being evolved are demonstrated by organizing various extension programmes like farmers fair, Krishi Mahotsav, exhibitions, exposure visits, animal check-up camps and diagnostic and advisory services for soil, water and infected plant samples and also training of farmers to update their knowledge and skill. These programmes have also benefited the farmers in terms of increased crop production and improved farm income.
- For strengthening the Government's initiative on Bringing Green Revolution to Eastern India, a new Indian Agriculture Research Institute (IARI) has been established at Barhi, Jharkhand on the lines of IARI, PUSA, New Delhi and another IARI is being established in Assam, Rajendra Agricultural University has been upgraded to Dr. Rajendra Prasad Central Agricultural University, six new colleges opened under Central Agricultural University, Imphal, National Research Centre for Integrated Farming established in Motihari (Bihar) and National Organic Farming Research Institute established in Tadong (Sikkim). Besides this, ICAR established six new Regional Research Stations in MP, Karnataka, Andhra Pradesh, Gujarat and West Bengal. Financial support has been extended to Telangana, Andhra Pradesh, and Haryana Governments for the establishment of new Agriculture and Horticulture Universities.

A new, state of the art Phonemics Facility has been created at ICAR-IARI, New Delhi. International fellowships for Ph.D. programmes in frontier areas of agricultural sciences were given to 105 young scientists to train them in the identified best laboratories of the world. The research collaboration with various national and international agencies including CG Centres strengthened, a new scheme of Emeritus Professor with 100 positions initiated and the slots for emeritus scientists doubled from 50 to 100 and the honorarium enhanced from Rs. 25,000 to Rs. 50,000 per month. To attract and retain talent in agriculture sciences, a new National Talent Scholarship has also been introduced for PG students from 2016-17.

[Part (a) & (b) of Lok Sabha USQ No.2396 for 02/01/2018]

State wise List of ICAR Research Institutions

State	Institute Name
Maharashtra	1. Central Institute for Cotton Research P.B.No.2, Shankarnagar P.O., Nagpur
	2. Directorate of Floricultural Research
	3. Directorate of Onion and Garlic Research, Pune
	4. Central Citrus Research Institute, Post Box No.464, Shankar Nagar
	5. National Research Centre for Grapes, PB No.3, Manjri Farm Post, Solapur
	6. National Research Centre on Pomegranate, NH-65 Solapur
	7. National Bureau of Soil Survey & Land Use Planning, Amravati
	8. National Institute of Abiotic Stress Management, Malegaon, Baramati
	9. Central Institute for Research on Cotton Technology, Adenwala
	10. Central Institute of Fisheries Education Mumbai
West Bengal	11. Central Research Institute for Jute & Allied Fibres, Barrackpore, Kolkata
	12. National Institute of Research on Jute & Allied Fibre Technology
	13. Central Inland Fisheries Research Institute, Barrackpore, Kolkata
Odisha	14. National Rice Research Institute, Bidyadharpur, Cuttack
	15. Indian Institute of Water Management, Opposite Rail Vihar, Chandrashekharpur
	16. Central Institute for Women in Agriculture, Plot No.50-51, Mauza-Jokalandi
	17. Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar
Andhra	18. Central Tobacco Research Institute, Dr. N.C. Gopalachari Road, Bhaskar Nagar
Pradesh	19. Indian Institute of Oil Palm Research, Near Jawahar Navodaya Vidyalaya
Gujarat	20. Directorate of Groundnut Research, Ivnagar Road, P.B.No.5, Junagadh
	21. Directorate of Medicinal & Aromatic Plants Research
Telangana	22. Indian Institute of Oilseeds Research, Rajendranagar, Hyderabad
-	23. Indian Institute of Millets Research, Rajendranagar, Hyderabad
	24. Central Research Institute for Dryland Agriculture, Santoshnagar, Saidabad
	25. National Academy of Agricultural Research Management, Rajendranagar
	26. Directorate of Poultry Research, Rajendranagar
	27. National Research Centre on Meat, Chengicherla
	28. Indian Institute of Rice Research, Rajendranagar, Hyderabad
Rajasthan	29. Directorate of Rapeseed–Mustard Research, Sewar, Bharatpur
	30. Central Institute for Arid Horticulture
	31. NRC on Seed Spices, Tabiji Farm, Ajmer
	32. Central Arid Zone Research Institute, Jodhpur
	33. Central Sheep & Wool Research Institute, Avikanagar, via Jaipur
	34. National Research Centre on Camel, P.B. No.07, Jorbeer, Bikaner
Uttar	35. Directorate of Seed Research, Village-Kushmaur, Post- NBAIM, Mau
Pradesh	36. Indian Grassland & Fodder Research Institute, Near Pahuj Dam, Gwalior
	37. Indian Institute of Pulses Research, Kalyanpur, Kanpur
	38. Indian Institute of Sugarcane Research, Raebareli Road, P.O. Dilkusha, Lucknow
	39. National Bureau of Agriculturally Important Microorganisms, Kushmaur
	40. Central Institute for Subtropical Horticulture
	41. Indian Institute of Vegetable Research, P.B. No. 01, PO Jakhini

42. Central Agroforestry Research Institute, Jhansi 43. Indian Institute of Farming Systems Research, Modipuram 44. Central Avian Research Institute, Izatnagar, Bareilly 45. Central Institute for Research on Cattle, PB No.17, Grass Farm Road, Me 46. Central Institute for Research on Goats, Makhdoom, PO Farah, Mathura 47. Indian Veterinary Research Institute, Izatnagar, Bareilly 48. National Bureau of Fish Genetic Resources Lucknow Madhya Pradesh Madhya Pradesh Pradesh So. Directorate of Soybean Research, Near IT Park, Khandwa Road, Indore 50. Directorate of Weed Science Research, Maharajpur, Adhartal 51. Indian Institute of Soil Science, Nabi Bagh, Berasia Road, Bhopal 52. Central Institute of Agricultural Engineering, Nabi Bagh, Berasia Road, Institute of High Security Animal Diseases, Anand Nagar, Bhop New Delhi Madhya Pradesh Sol. Indian Agricultural Research Institute, Pusa 55. Indian Institute of High Security Animal Diseases, Anand Nagar, Bhop Sol. Indian Agricultural Research Institute, Pusa 55. Indian Institute of Maize Research, Pusa 56. National Bureau of Plant Genetic Resources, Pusa 57. National Research Centre for Integrated Pest Management, LBS Bldg, Pusa 59. Indian Agricultural Statistics Research Institute, Library Avenue, Pusa 60. National Institute of Agricultural Economics & Policy Research, DPS Ma 61. Directorate of Knowledge Management in Agriculture, KAB-I, Pusa Jharkhand G2. Indian Institute of Agricultural Biotechnology, Garhkhatanga, Ranchi	Bhopal pal
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63. Indian Institute of Natural Resins and Gums, Namkum, Ranchi	
64. IARI, Hazari Bagh	
Haryana 65. Indian Institute of Wheat and Barley Research, P.B. No. 158, Kunjpura	
66. Central Soil Salinity Research Institute, Zarifa Farm, Kachhwa Road, Kar	rnal
67. Central Institute for Research on Buffaloes, Sirsa Road, Hisar	
68. National Bureau of Animal Genetic Resources Karnal	
69. National Dairy Research Institute, Karnal	
70. National Research Centre for Equines, Hisar	
Karnataka 71. National Bureau of Agricultural Insect Resources	
72. Directorate of Cashew Research	
73. Indian Institute of Horticultural Research, Hassaraghatta	
74. National Institute of Animal Nutrition & Physiology, Hosur	
75. National Institute of Veterinary Epidemiology and Disease Informatics (N	NIVEDI
Bengaluru	
Chhatisgarh 76. National Institute of Biotic Stress Management, Baronda, Raipur	
77. Sugarcane Breeding Institute, Coimbatore	
Tamil Nadu 78. National Research Centre for Banana, Thogamalai Main Road, Thayanur	
79. Central Institute of Brackishwater Aquaculture Chennai	
Uttarakhand 80. Vivekanand Parvatiya Krishi Anusandhan Sansthan, Almora	
81. Indian Institute of Soil & Water Conservation, 218, Kaulagarh Road, Deh	nradun
82. Project Directorate on Foot and Mouth Disease, IVRI Campus, Mukteswa	
83. Directorate of Coldwater Fisheries Research, Bhimtal, Nainital	
J&K 84. Central Institute of Temperate Horticulture, Srinagar	
Andaman & 85. Central Island Agricultural Research Institute, Port Balir	
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Kerala	86. Central Plantation Crops Research Institute, Kudlu			
	87. Central Tuber Crops Research Institute			
	88. Indian Institute of Spices Research, Marikunnu			
	89. Central Institute of Fisheries Technology, Matsyapuri			
	90. Central Marine Fisheries Research Institute Kochi			
Himachal	91. Central Potato Research Institute, Shimla			
Pradesh	92. Directorate of Mushroom Research, Solan			
Bihar	93. National Research Centre for Litchi, Mushahari Farm, Mushahari			
	94. ICAR Research Complex for Eastern Region, ICAR Parisar			
	95. National Research Centre on Integrated Farming, Motihari			
Sikkim	96. 1-National Research Centre for Orchids, Pakyong, Gangtok			
	97. National Organic Farming Research Institute, Gangtok			
Meghalaya	98. ICAR Res. Complex for NEH Region, Umroi Road, Umiam			
Goa	99. Central Coastal Agricultural Research Institute, Ela			
Punjab	100.Central Institute of Post-Harvest Engineering & Technology Ludhiana			
Nagaland	101.National Research Centre on Mithun, Jharnapani, Medziphema			
Assam	102.National Research Centre on Pig, Rani, Guwahati			
Arunachal	103.National Research Centre on Yak, Dirang, West Kameng			
Pradesh				

<u>Annexure-II</u> [Part (a) & (b) of Lok Sabha USQ No.2396 for 02/01/2018]

List of All India Coordinated Research Projects/Network Projects

S.No.	Name of AICRPs			
1.	AICRP on Maize, New Delhi			
2.	AICRP on Nematodes in Cropping System, New Delhi			
3.	All India Coordinated Rice Improvement Project, Hyderabad			
4.	AICRP on Chickpea, Kanpur			
5.	AICRP on MULLaRP, Kanpur			
6.	AICRP on Pigeon Pea, Kanpur			
7.	AICRP on Wheat & Barley, Karnal			
8.	AICRP on Forage Crops and Utilization, Jhansi			
9.	AICRP Sorghum, Hyderabad			
10.	AICRP on Pearl Millets, Jodhpur			
11.	AICRP on Small Millets, Bangalore			
12.	AICRP on Sugarcane, Lucknow			
13.	AICRP on Cotton, Coimbatore			
14.	AICRP on Groundnut, Junagarh			
15.	AICRP on Soybean, Indore			
16.	AICRP on Rapeseed & Mustard, Bharatpur			
17.	AICRP on Oilseed, Hyderabad			
18.	AICRP on Linseed, Kanpur			
19.	AICRP on Sesame and Niger, Jabalpur			
20.	AICRP on Biocontrol of Crop Pests, Bengaluru			
21.	AICRP - Honeybees and Pollinators, New Delhi			
22.	AICRP NSP(Crops), Mau			
23.	AICRP Fruits (Tropical and Sub Tropical), Bengaluru			
24.	AICRP Arid Zone Fruits, Bikaner			
25.	AICRP Mushroom, Solan			
26.	AICRP Vegetables, Varanasi			
27.	AICRP Potato, Shimla			
28.	AICRP Tuber Crops, Thiruvananthapuram			
29.	AICRP Palms, Kasargod			
30.	AICRP on Cashew, Puttur			
31.	AICRP Spices, Calicut			
32.	AICRP Floriculture, Pune(in Directorate)			
33.	AICRP on Micro Secondary & Pollutant Elements in Soils and Plants, Bhopal			
34.	AICRP on Soil Test Crop Response, Bhopal			
35.	AICRP on Long Term Fertilizer Experiments, Bhopal			
36.	AICRP on Salt Affected Soils & use of Saline Water, Karnal			
37.	AICRP on Irrigation Water Management Research, Bhubaneshwar			
38.	AICRP Dryland Agriculture, Hyderabad			
39.	AICRP on Agrometeorology, Hyderabad			
40.	AICRP on Integrated Farming System, Modipuram			
41.	AICRP on Agroforestry, Jhansi			
42.	AICRP on Weed Management, Jabalpur			
43.	AICRP on Farm Implements and Machinery, Bhopal			
44.	AICRP on Ergonomics and Safety in Agriculture, Bhopal			
45.	AICRP on Energy in Agriculture and Agro based Industries , Bhopal			
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46.	AICRP on Utilization Animal Energy, Bhopal		
47.	AICRP on Plasticulture Engineering and Technology, Ludhiana		
48.	AICRP on Post Harvest Engineering and Technology, Ludhiana		
49.	AICRP on Goat Improvement, Mathura		
50.	AICRP on Improvement of Feed Sources & Nutrient Utilisation, Bengaluru		
51.	AICRP on Cattle Research, Meerut		
52.	AICRP Foot & Mouth, Mukteshwar		
53.	AICRP on Poultry, Hyderabad		
54.	AICRP ADMAS, Bengaluru		
55.	AICRP on Pig, Guwahati		
56.	AICRP Home Science		
Name of I	Network Projects		
57.	AIC Research Network on Potential Crops, New Delhi		
58.	Network Project on Transgenics		
59.	AINP on Soil Arthropod Pests, Durgapura, Rajasthan		
60.	AINP on Agricultural Acarology		
61.	AINP on Pesticides Residues, New Delhi		
62.	AINP on Arid Legumes, Kanpur		
63.	All India Network Research Project on Tobacco, Rajamundry		
64.	AINP on Jute and Allied Fibres, Barrackpore		
65.	AINP on Vertebrate Pest Management, Jodhpur		
66.	Network on Insect Biosystematics, New Delhi/Bengaluru		
67.	Application of Micro-organisms in Agriculture and Allied Sectors(AMAAS)		
	+Microbial Genomic Resources repository network, Mau		
68.	Network O&G (included in Directorate)		
69.	Network on Medicinal & Aromatic Plants, Anand		
70.	AINP on Biofertilizer, Bhopal		
71.	Network Programme on Organic Farming, Modipuram		
72.	Network project on Harvesting, Processing and Value Addition of Natural Resins		
	& Gums, Ranchi		
73.	Network Project on Conservation of Lac Insect Genetic Resources, Ranchi		
74.	Network project on Animal Genetic Resources, Karnal		
75.	Network on Sheep Improvement, Avikanagar		
76.	Network Project on Buffalo Improvement, Hissar		
77.	Network on Gastro Intestinal Parasitism, Izatnagar		
78.	Network on Haemorrhagic Septcamia, Izatnagar		
79.	Network Programme on Blue Tongue Disease, Izatnagar		
80.	All India Network Program on Neonatal Mortality in Farm Animal(NNM),		
	Izatnagar		
81.	All India Network Program on Diagnostic Imaging and Management of Surgical		
	Condition in Animals, Izatnagar		

Annexure-III

[Part (a) & (b) of Lok Sabha USQ No.2396 for 02/01/2018]

Details of the expenditure incurred by the Government on Research Centres during the last three years and the current year

(Rs. In Crores)

Year	Revised Estimate	Actual Expenditure
2014-15	2500.00	2268.57
2015-16	3000.00	2735.33
2016-17	3166.58	2960.50
2017-18 (Plan+ Non Plan)	6992.00	4891.56 (up to Nov. 2017)
