

(A) DEPARTMENT OF AGRICULTURAL RESEARCH AND EDUCATION

APPENDIX I

SUBJECTS ALLOCATED TO DEPARTMENT OF AGRICULTURAL RESEARCH AND EDUCATION (KRISHI ANUSANDHAN AUR SHIKSHA VIBHAG)

Part I

The following subjects which fall within List I of the Seventh Schedule to the Constitution of India:

1. International cooperation and assistance in the field of agricultural research and education including relations with foreign and international agricultural research and educational institutions and organizations.
2. Fundamental, applied and operational research and higher education including coordination of such research and higher education in agriculture, agro-forestry, animal husbandry, dairying, fisheries, agricultural engineering and horticulture including agricultural statistics, economics and marketing.
3. Coordination and determination of standards in institutions for higher education or research and scientific and technical institutions in so far as they relate to food and agriculture including animal husbandry, dairying and fisheries. Development of Human Resources in Agricultural Research/Extensions and Education.
4. Cess for financing to the Indian Council of Agricultural Research and the Commodity Research Programmes other than those relating to tea, coffee and rubber.
5. Sugarcane research.

Part II

For Union Territories the subjects mentioned in Part I above, so far as they exist in regard to these Territories and in addition the following subject which falls within List II of the Seventh Schedule to the Constitution of India:

6. Agricultural Education and Research.

Part III

General and Consequential:

7. Plant, animal and fish introduction and exploration.
8. All India Soil and Land Use Survey relating to research training, correlation, classification, soil mapping and interpretation.
9. Financial assistance to State Governments and Agricultural Universities in respect of agricultural research and educational schemes and programmes.
10. National Demonstrations.
11. Indian Council of Agricultural Research and its constituent Institutes, National Research Centres, Project Directorates, Bureaux and All India Coordinated Research Projects.
12. Research and Development on production and improvement of bio-fuels plants

APPENDIX II

TOTAL NUMBER OF POSTS AND NAMES OF IMPORTANT FUNCTIONARIES

Group	Designation	Sanctioned strength
A	Secretary (DARE) and DG (ICAR)	1
A	Additional Secretary (DARE) and Secretary (ICAR)	1
A	Additional Secretary and Financial Advisor	1
A	Director	1
A	Deputy Secretary	1
A	Senior Principal Private Secretary/Principal Staff Officer	1
A	Joint Director	1
A	Under Secretary	7
A	Principal Private Secretary	3
B	Assistant Director (OL)	1
B	Private Secretary	3
B	Section Officer	4
B	Assistant	5
B	Personal Assistant/Steno Grade 'C'	3
B	Junior Hindi Translator	1
C	UDC-cum-Cashier	1
C	UDC	1
C	Stenographer Grade 'D'	3
C	UDC-Hindi Typist	1
C	Staff Car Driver	2
C	LDC	1
D	Daftry	1
D	Peon	5
	Total	49

NAMES OF THE IMPORTANT FUNCTIONARIES

Sl.No.	Name	Designations
1.	Dr S. Ayyappan	Secretary (DARE) and DG (ICAR)
2.	Shri Sunil Kumar Singh	Additional Secretary and Financial Advisor
3.	Shri Chhabilendra Roul	Additional Secretary (DARE) and Secretary (ICAR)
4.	Shri Ravinesh Kumar	Director
5.	Smt Niranjana Kaur	Deputy Secretary
6.	Shri Mohinder Kumar	Senior Principal Private Secretary
7.	Shri T. Khaling	Under Secretary
8.	Smt Alka Ahuja	Under Secretary
9.	Smt Madhu Bala	Under Secretary
10.	Shri Vijay Singh	Under Secretary
11.	Shri Jitendra Misra	Under Secretary
12.	Shri P.P. Maurya	Under Secretary
13.	Shri T. B. Bhaviskar	Under Secretary
14.	Shri V. Kurien John	Principal Private Secretary
15.	Shri Sanjeev Kumar Sharma	Principal Private Secretary
16.	Dr Puran Singh	Assistant Director (OL)

APPENDIX III

ACTIVITY PROGRAMME CLASSIFICATION

The Budget Estimates (BE) of DARE (Plan, Non-Plan) for 2014–15 is ₹19,000.00 Lakh and ₹ 1,124.00 Lakh and Revised Estimates (RE) of DARE (Plan, Non-Plan) for 2014–15 is ₹ 15,401.00 Lakh and ₹ 1,039.26 respectively. The BE for 2015–16 (Pan, and Non-Plan) is ₹ 19,800.00 Lakh and ₹ 1,179.35 Lakh. The detailed break-up of these financial figures are given below in Tables 1, 2.

Table 1. Budget estimates and revised estimates of DARE/ICAR

(Rupees in lakh)

Budget head	Item	Budget Estimates 2014–2015		Revised Estimates 2014–2015		Budget Estimates 2015–2016	
		Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan
Major Head '3451'							
090	Secretariat	–	581.00	–	478.00	–	611.00
Major Head '2415'							
80	-General						
	International Co-operation						
(80.120)	Assistance to other institutions						
02	Grant-in-Aid Central Agricultural University Bundelkhand						
(020031)	-Grants-in-Aid-General	100.00	–	5.00	–	150.00	–
(020035)	-Grants for creation of Capital assets	800.00	–	1.00	–	700.00	–
(020036)	-Grants-in-Aid-Salaries	100.00	–	50.00	–	150.00	–
(03)	-Grants-in-Aids to Central Agricultural University, Bihar						
(030031)	-Grants-in-Aids-General	100.00	–	0.34	–	200.00	–
(030035)	-Grants for creation of Capital Assets	200.00	–	0.33	–	150.00	–
(030036)	-Grants-in-Aid-Salaries	700.00		0.33	–	650.00	–
(05)	Grant in Aid to National Academy of Agricultural Sciences and Indian Agricultural Universities Association						
(050031)	-Grants in Aid General			156.50		250.00	
(050035)	-Grants for creatio of Capital Assets					250.00	
(050036)	-Grants in Aid Salaries			43.50		100.00	
(80.798)	International Co-operation						
(010032)	India's membership contribution to Commonwealth Agricultural Bureau International (CABI)		22.95		22.95		25.00
(020032)	India's membership contribution to Consultative Group on International Agricultural Research		470.00		487.50		487.50
(040032)	India's contribution to Asia Pacific Association of Agricultural Research Institutions (APAARI)		6.30		6.11		7.30
(050032)	India's contribution to NACA		40.00		40.00		44.00
(070032)	India's contribution to Seed Testing Associations		3.50		4.25		4.25
(080032)	ISHS Belgium		0.25		0.45		0.30
Major head '2415'							
Major Head '2552'	North Eastern Areas						
259	General (Agri. Res. & Edn. Schemes)						
(01)	-Grants-in-Aids to Central Agricultural University, Imphal						
010031	-Grants-in-Aids-General	1,619.00	–	1,882.55	–	2,000.00	–
010035	-Grants for creation of Capital Assets	2,930.80	–	6,347.91	–	7,600.00	–
010036	Grants-in-Aids-Salaries	7,351.30	–	6,669.54	–	7,000.00	–
02	Grant-in-Aids Central Agricultural University, Barapani						
020031	Grants in Aids General	20.00	–	34.00	–	50.00	–
020035	Grant for creation of Capital Assets	20.00	–	33.00	–	500.00	–
020036	Grants-in-Aids-Salaries	60.00	–	33.00	–	50.00	–
	Total	19,000.00	1,124.00	15,401.00	1,039.26	19,800.00	1,179.35

**Table 2. Details of financial outlay
Department of Agricultural Research and Education**

The gross provision for Demand No. 2 - DARE, excluding

(Rupees in crore)

Particulars	Actuals 2013-14			Budget 2014-2015			Revised 2014-2015			Budget 2015-2016			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	2599.97	2279.96	4879.93	3715.00	2429.39	6144.39	2500.00	2384.00	4884.00	3691.00	2629.00	6320.00	
Capital	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	2599.97	2279.96	4879.93	3715.00	2429.39	6144.39	2500.00	2384.00	4884.00	3691.00	2629.00	6320.00	
A. The Budget allocations, net of recoveries and receipts, are given below:													
Sl. No.	Group/Sub Group/Sub Sub Group/Scheme/Sub Scheme/ Programme/Sub Programme	Actuals 2013-2014			Budget 2014-2015			Revised 2014-2015			Budget 2015-2016		
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
1.	Revenue	2450.80	2279.96	4730.76	3715.00	2429.39	6144.39	2500.00	2384.00	4884.00	3691.00	2629.00	6320.00
	Capital	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2461.44	2048.31	4509.75	3415.00	2314.17	5729.17	2600.00	2281.08	4881.08	3715.00	2429.39	6144.39
	Secretariat - Economic Service	3451	0.00	4.49	0.00	5.81	5.81	0.00	4.78	4.78	0.00	6.11	6.11
2.	Agricultural Research and Education												
	Payments to Indian Council of Agricultural Research (ICAR)												
	Crop Husbandry												
	Payments of net proceeds of cess under Agricultural Produce Cess Act, 1940	2415	0.00	0.25	0.00	0.50	0.50	0.00	0.25	0.25	0.00	0.25	0.25
2.02	Other Programmes of Crop Husbandry												
	Crop Science	2415	375.00	682.93	1057.93	458.00	737.04	1195.04	369.35	712.11	1081.46	778.59	1334.59
	Horticulture	2415	149.00	269.40	418.40	200.00	290.96	490.96	139.35	287.48	426.83	324.80	538.80
	Agricultural Extension	2415	540.00	3.53	543.53	522.00	3.75	525.75	459.00	3.76	462.76	570.00	573.91
2.02.04	Agricultural Education	2415	405.00	46.53	451.53	530.00	54.12	584.12	390.00	48.39	438.39	557.00	607.81
2.02.05	Economic Statistics and Management	2415	6.00	33.10	39.10	30.00	37.28	67.28	15.50	35.03	50.53	37.68	57.68
2.02.06	Agricultural Engineering	2415	55.00	91.11	146.11	82.00	96.01	178.01	62.50	95.36	157.86	109.57	196.57
2.02.07	ICAR Headquarter Administration	2415	100.00	125.02	225.02	400.00	130.30	530.30	161.00	123.11	284.11	144.27	452.27
2.02.08	National Fund for Basic, Strategic and Frontier Application Research in Agriculture	2415	110.00	0.00	110.00	121.00	0.00	121.00	58.90	0.00	58.90	0.00	130.00
2.02.09	National Agricultural Innovation Project/Externally Aided Project	2415	235.00	0.00	235.00	99.00	0.00	99.00	84.65	0.00	84.65	0.00	0.00
2.02.10	Agriculture University, Andhra Pradesh	2415	0.00	0.00	0.00	100.00	0.00	100.00	10.00	0.00	10.00	0.00	75.00
2.02.11	Horticulture University, Telengana	2415	0.00	0.00	0.00	100.00	0.00	100.00	10.00	0.00	10.00	0.00	75.00

(Rupees In crore)

(Table 2 continued)

Sl. No.	Group/Sub Group/Sub Scheme/ Programme/Sub Programme	Actuals 2013-2014			Budget 2014-2015			Revised 2014-2015			Budget 2015-2016		
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
2.02.12	Agriculture University, Rajasthan	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	5.00	25.00	0.00	25.00
2.02.13	Horticulture University, Haryana	0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	5.00	25.00	0.00	25.00
2.02.14	IARI type Deemed University, Asom	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00
2.02.15	IARI type Deemed University, Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00
Total-Other Programmes of Crop Husbandry		1975.00	1251.62	3226.62	2642.00	1349.46	3991.46	1770.45	1305.24	3075.69	2642.00	1449.63	4091.63
Total-Crop Husbandry		1975.00	1251.87	3226.87	2642.00	1349.96	3991.96	1770.45	1305.49	3075.94	2642.00	1449.88	4091.88
3.	Soil and Water Conservation	175.00	320.42	495.42	200.00	347.64	547.64	157.50	346.57	504.07	220.00	383.83	603.83
3.01	Natural Resource Management Institutes including Agro-Forestry Research	70.00	0.00	70.00	95.00	0.00	95.00	62.50	0.00	62.50	103.00	0.00	103.00
3.02	Climate Resilient Agriculture Initiative	0.00	0.00	0.00	90.00	0.00	90.00	0.19	0.00	0.19	0.00	0.00	0.00
3.03	National Adaptation Fund	245.00	320.42	565.42	385.00	347.64	732.64	220.19	346.57	566.76	323.00	383.83	706.83
Total-Soil and Water Conservation		189.98	465.50	655.48	215.00	477.73	692.73	152.50	482.41	634.91	233.00	515.50	748.50
4.	Animal Husbandry	70.00	232.46	302.46	92.00	242.82	334.82	63.50	239.14	302.64	97.00	268.00	365.00
5.	Fisheries	2479.98	2270.25	4750.23	3334.00	2418.15	5752.15	2206.64	2373.61	4580.25	3295.00	2617.21	5912.21
Total-Payments to Indian Council of Agricultural Research (ICAR)		0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	2.00	6.00	0.00	6.00
6.	Grant in Aid to National Academy of Agricultural Sciences and Indian Agricultural Universities Association	119.99	5.22	125.21	0.00	5.43	5.43	0.00	5.61	5.61	0.00	5.68	5.68
7.	Contributions to Commonwealth Agricultural Bureau, Consultative Group on International Agricultural Research and Association of Asia Pacific Agricultural Research Institute	0.00	0.00	0.00	10.00	0.00	10.00	2.00	0.00	2.00	10.00	0.00	10.00
8.	Central Agricultural University, Bundelkhand	0.00	0.00	0.00	10.00	0.00	10.00	0.01	0.00	0.01	10.00	0.00	10.00
9.	Central Agricultural University, Bihar	0.00	0.00	0.00	10.00	0.00	10.00	289.35	0.00	289.35	370.00	0.00	370.00
10.	Lumpsum provision for projects/schemes for the benefit of North Eastern Region and Sikkim	2552	0.00	0.00	361.00	0.00	361.00	0.00	0.00	0.00	0.00	0.00	0.00
Total-Agricultural Research and Education		2599.97	2275.47	4875.44	3715.00	2423.58	6138.58	2500.00	2379.22	4879.22	3691.00	2622.89	6313.89
11.	Actual Recoveries	-149.17	0.00	-149.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total		2450.80	2279.96	4730.76	3715.00	2429.39	6144.39	2500.00	2384.00	4884.00	3691.00	2629.00	6320.00
Starting - Part D (Major Head-wise Totals)		Actuals 2013-2014			Budget 2014-2015			Revised 2014-2015			Budget 2015-2016		
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
2415		2450.80	2275.47	4726.27	3354.00	2423.58	5777.58	2210.65	2379.22	4589.87	3321.00	2622.89	5943.89
2552		0.00	0.00	0.00	361.00	0.00	361.00	289.35	0.00	289.35	370.00	0.00	370.00
3451		0.00	4.49	4.49	0.00	5.81	5.81	0.00	4.78	4.78	0.00	6.11	6.11
Total		2450.80	2279.96	4730.76	3715.00	2429.39	6144.39	2500.00	2384.00	4884.00	3691.00	2629.00	6320.00

(B) INDIAN COUNCIL OF AGRICULTURAL RESEARCH**APPENDIX 1****INDIAN COUNCIL OF AGRICULTURAL RESEARCH SOCIETY**

- i) *Minister-in-charge of the portfolio of Agriculture in the Union Cabinet- President of the Society.*
1. Shri Radha Mohan Singh *Ex-Officio*
Minister for Agriculture and Farmers Welfare, Government of India
Krishi Bhavan, New Delhi-110 001
- ii) *Minister of State in the Union Ministry of Agriculture dealing with the ICAR- Vice-President.*
2. Dr Sanjeev Kumar Balyan *Ex-Officio*
Minister of State for Agriculture and Farmers Welfare, Government of India
Krishi Bhavan, New Delhi-110 001
- iii) *Union Ministers holding charge of Finance, Planning, Science & Technology, Education and Commerce (in case the Prime Minister is holding any of these portfolios, the Minister of State in the Ministry/Department concerned)*
3. Shri Arun Jaitley *Ex-Officio*
Minister of Finance
Government of India, North Block
New Delhi-110 001
 4. Shri Inderjit Singh Rao *Ex-Officio*
Minister of State for Planning
Government of India, Yojna Bhawan
New Delhi-110 001
 5. Dr Harsh Vardhan *Ex-Officio*
Minister of Science and Technology & Earth Science, Government of India
CSIR Building, 2 Rafi Marg
New Delhi-110 001
 6. Smt. Smriti Zubin Irani *Ex-Officio*
Minister of Human Resource Development
Government of India
Shastri Bhavan, New Delhi-110 001
 7. Smt. Nirmala Sitharaman *Ex-Officio*
Minister of State for Commerce & Industry
Government of India, Udyog Bhavan
New Delhi-110 001
 8. Shri Mohanbhai Kalyanjibhai Kundariya *Ex-Officio*
Minister of State for Agriculture and Farmers Welfare, Government of India
Krishi Bhavan, New Delhi-110 001
- iv)
- ANDHRA PRADESH**
9. Shri Prathipati Pulla Rao *Ex-officio*
Minister for Agriculture & Animal Husbandry & Fisheries,
Government of Andhra Pradesh
A.P. Secretariat
Hyderabad, Andhra Pradesh-500 022
- ARUNACHAL PRADESH**
10. Shri Phurpa Tsering *Ex-officio*
Minister
for Animal Husbandry
Government of Arunachal Pradesh
CM Secretariat
Itanagar, Arunachal Pradesh-791 111.
 11. Shri Tanga Byaling *Ex-officio*
Minister for Horticulture
Government of Arunachal Pradesh
CM Secretariat
- Itanagar, Arunachal Pradesh-791 111
- ASOM**
12. Shri Rockybul Hussain *Ex-officio*
Minister for Agriculture and Horticulture
Government of Assam
Janta Bhavan, Dispur
Guwahati, Asom-781 006
 13. Shri Khor Sing Engti *Ex-officio*
Minister for Animal Husbandry
Government of Assam
Janta Bhavan, Dispur
Guwahati, Asom-781 0066.
 14. Shri Basanta Das *Ex-officio*
Minister of Fisheries
Government of Assam
Janta Bhavan, Dispur
Guwahati, Asom-781 006
- BIHAR**
15. Shri Awdhesh Kumar Singh *Ex-officio*
Minister for Animal Husbandry and Fisheries Resources
Government of Bihar
Vikas Bhavan, New Secretariat
Bailey Road, Patna, Bihar- 800 015
 16. Shri Ramvihar Rai *Ex-officio*
Minister for Agriculture
Government of Bihar
Vikas Bhavan, New Secretariat
Bailey Road, Patna, Bihar 800 015
- CHHATTISGARH**
17. Shri Brijmohan Agarwal *Ex-officio*
Minister of Agriculture
Animal Husbandry and Fisheries
Government of Chhattisgarh
Sachivalaya, Raipur (Chhattisgarh)
- DELHI**
18. Shri Gopal Rai *Ex-officio*
Minister for Development
Delhi Secretariat, I.P. Estate
New Delhi-110 002
- GOA**
19. Shri Ramesh Tawadkar *Ex-officio*
Minister of Agriculture, Animal Husbandry Government of Goa, Secretariat,
Panaji, Goa-403 001
 20. Shri Avertano Furtado *Ex-officio*
Minister for Fisheries
Government of Goa, Secretariat,
Panaji, Goa 403 001
- GUJARAT**
21. Shri Babubhai Bokhiria *Ex-officio*
Minister for Agriculture, Fisheries & AH
Government of Gujarat, 1st Floor, Swarnim Sankul-I
New Sachivalaya,
Gandhinagar, Gujarat 382 010
- HARYANA**
22. Shri Om Prakash Dhankar *Ex-officio*
Minister for Agriculture, Fisheries & AH
Government of Haryana,

Haryana Civil Secretariat, Chandigarh, Haryana		Government of Kerala Secretariat Annexe Thiruvananthapuram, Kerala 695 001	
HIMACHAL PRADESH		36. Shri K. Babu	<i>Ex-officio</i>
23. Shri Anil Kumar	<i>Ex-officio</i>	Minister for Fisheries	
Minister of Animal Husbandry		Government of Kerala	
Government of Himachal Pradesh		North Block, Secretariat	
H.P. Secretariat		Thiruvananthapuram, Kerala 695 001	
Shimla, Himachal Pradesh 171 002			
24. Shri Rohit Thakur	<i>Ex-officio</i>	MADHYA PRADESH	
Minister for Agriculture		37. Shri Gaurishankar Chaturbhuj Bisen	<i>Ex-officio</i>
Government of Himachal Pradesh		Minister of Agriculture Development	
H.P. Secretariat		Government of Madhya Pradesh	
Shimla, Himachal Pradesh 171 002		Vallabh Bhavan	
25. Smt. Vidya Stokes	<i>Ex-officio</i>	Bhopal, Madhya Pradesh 423 006	
Minister for Horticulture		38. Sushri Kusum Mehdele	<i>Ex-officio</i>
Government of Himachal Pradesh		Minister of Horticulture, Fisheries &	
H.P. Secretariat		Animal Husbandry	
Shimla, Himachal Pradesh 171 002		Government of Madhya Pradesh	
26. Shri Thakur Singh Bharmouri		Vallabh Bhavan, Bhopal	
Minister for Fisheries		Madhya Pradesh -423 006	
Government of Himachal Pradesh			
H.P. Secretariat		MAHARASHTRA	
Shimla, Himachal Pradesh 171 002		39. Shri Eknathrao Ganpatrao Khadse	<i>Ex-officio</i>
		Minister for Agriculture, Horticulture	
JAMMU & KASHMIR		Animal Husbandry & Fisheries	
27. Mr Ghulam Nabi Lone	<i>Ex-officio</i>	Government of Maharashtra	
Minister for Agriculture Production		Mantralaya,	
Government of Jammu & Kashmir		Mumbai, Maharashtra 400 032	
Civil Secretariat, Jammu			
Jammu & Kashmir-180 001		MANIPUR	
28. Mr Abdul Rehman Bhat (Veeri)	<i>Ex-officio</i>	40. Shri Mohammed Abdul Nasir	<i>Ex-officio</i>
Minister for Horticulture		Minister for Agriculture and Fisheries	
Government of Jammu & Kashmir		Government of Manipur	
Civil Secretariat, Jammu		Secretariat	
Jammu & Kashmir-180 001		Imphal, Manipur 795 001	
29. Mr Sajad Gani Lone	<i>Ex-officio</i>	41. Shri Govindas Konthoujam	<i>Ex-officio</i>
Minister for Animal Husbandry		Minister for Animal Husbandry	
Government of Jammu & Kashmir		Government of Manipur	
Civil Secretariat, Jammu		Secretariat	
Jammu & Kashmir-180 001		Imphal, Manipur-795 001	
		MEGHALAYA	
JHARKHAND		42. Dr Mukul Sangma	<i>Ex-officio</i>
30. Shri Randhir Singh	<i>Ex-officio</i>	Chief Minister holding the Charge of	
Minister of Agriculture, Animal Husbandry		Agriculture, Government of Meghalaya	
& Fisheries, Government of Jharkhand		Meghalaya Secretariat (C)	
Project Building HEC, Dhurva		Shillong, Meghalaya-793 001	
Ranchi, Jharkhand-834 002		43. Smt. Deborah C. Marak	<i>Ex-officio</i>
		Minister for Animal Husbandry	
KARNATAKA		Government of Meghalaya	
31. Shri Shamanoor Shivashankarappa	<i>Ex-officio</i>	Meghalaya Secretariat (C)	
Minister of Agriculture & Horticulture		Shillong, Meghalaya-793 001	
Government of Karnataka			
Vidhan Soudha, Bengaluru		MIZORAM	
Karnataka-560 001		44. Shri R. Lalzirliana	<i>Ex-officio</i>
32. Shri K. Abhayachandra Jain	<i>Ex-officio</i>	Minister for Agriculture	
Minister of Fisheries		Government of Mizoram	
Government of Karnataka		Aizwal, Mizoram - 796 001	
Vidhan Soudha, Bengaluru		45. Shri P.C. Lalthanliana	<i>Ex-officio</i>
Karnataka-560 001		Minister for Horticulture	
33. Shri T.B. Jayachandra		Government of Mizoram	
Minister of Animal Husbandry		Aizwal, Mizoram 796 001	
Government of Karnataka		46. Shri C. Ngunlianchunga	<i>Ex-officio</i>
Vidhan Soudha, Bengaluru		Minister of State for Animal Husbandry	
Karnataka 560 001		Government of Mizoram	
34. Shri Krishna Byre Gowda		Aizwal, Mizoram - 796 001	
Minister of Agriculture		47. Shri B.D. Chakma	<i>Ex-officio</i>
Government of Karnataka		Minister of State for Fisheries	
Vidhan Soudha, Bengaluru		Government of Mizoram	
Karnataka 560 001		Aizwal, Mizoram - 796 001	
		NAGALAND	
KERALA		48. Dr Benjongliba	<i>Ex-officio</i>
35. Shri K.P. Mohanan	<i>Ex-officio</i>	Minister of State for Agriculture	
Minister for Agriculture and			
Animal Husbandry			

Government of Nagaland Civil Secretariat Complex Kohima, Nagaland 797 004			Government of Tamil Nadu Chennai, Tamil Nadu 600 009	
49. Shri Kejong Chang	<i>Ex-officio</i>	TRIPURA	62. Shri Aghore Debbarma	<i>Ex-officio</i>
Minister of State for Horticulture			Minister for Agriculture	
Government of Nagaland			& Animal Resource Development	
Civil Secretariat Complex			Government of Tripura	
Kohima, Nagaland 797 004			Civil Secretariat	
50. Shri S. Chubalong Kumer	<i>Ex-officio</i>		Agartala, Tripura-799 001	
Minister of State for Animal Husbandry			63. Shri Khagendra Jamatia	<i>Ex-officio</i>
Government of Nagaland			Minister for Fisheries	
Civil Secretariat Complex			Government of Tripura	
Kohima, Nagaland 797 004			Civil Secretariat	
51. Shri Shetoyi	<i>Ex-officio</i>		Agartala, Tripura-799 001	
Minister of State for Fisheries				
Government of Nagaland				
Civil Secretariat Complex				
Kohima, Nagaland 797 004				
ODISHA			TELANGANA	
52. Shri Pradeep Maharathy	<i>Ex-officio</i>		64. Shri Pocharam Srinivas Reddy	<i>Ex-officio</i>
Minister for Agriculture, Fisheries &			Minister of Agriculture, Horticulture	
Animal Resource Development			Animal Husbandry & Fisheries	
Government of Odisha			Room No.261,D-Block	
Odisha Secretariat			Government of Andhra Pradesh	
Bhubaneshwar, Odisha-751 001			A.P. Secretariat	
			Hyderabad, Andhra Pradesh-500 022	
PUNJAB			UTTARAKHAND	
53. Sardar Tota Singh	<i>Ex-officio</i>		65. Shri Harak Singh Rawat	<i>Ex-officio</i>
Minister of Agriculture			Minister for Agriculture & Horticulture	
Government of Punjab			Government of Uttarakhand	
Punjab Civil Secretariat			Dehra Dun, Uttarakhand	
Chandigarh, Punjab			66. Shri Pritam Singh Panwar	<i>Ex-officio</i>
54. Sardar Gulzar Singh Ranike	<i>Ex-officio</i>		Minister for Animal Husbandry & Fisheries	
Minister for AH & Fisheries			Government of Uttarakhand	
Government of Punjab			Dehra Dun, Uttarakhand	
Punjab Civil Secretariat				
Chandigarh, Punjab				
PUDUCHERRY			UTTAR PRADESH	
55. Shri M. Chandrakasu	<i>Ex-officio</i>		67. Shri Vinod Kumar Urf 'Pandit Singh'	<i>Ex-officio</i>
Minister for Agriculture			Minister of Agriculture	
& Animal Husbandry			Government of Uttar Pradesh	
Government of Puducherry			UP Civil Secretariat	
Puducherry 605 001			Lucknow, Uttar Pradesh	
56. Shri P. R. Siva	<i>Ex-officio</i>		68. Shri Riyaz Ahmad	<i>Ex-officio</i>
Minister for Fisheries			Minister of State for Fisheries	
Government of Puducherry			Government of Uttar Pradesh	
Puducherry 605 001			UP Civil Secretariat	
			Lucknow, Uttar Pradesh	
RAJASTHAN			69. Shri Moolchandra Chauhan	
57. Shri Prabhu Lal Saini	<i>Ex-officio</i>		Minister of State for Horticulture	
Minister for Agriculture, Horticulture			Government of Uttar Pradesh	
Animal Husbandry & Fisheries			UP Civil Secretariat	
Government of Rajasthan			Lucknow, Uttar Pradesh	
Rajasthan Secretariat				
Jaipur, Rajasthan 302 005				
SIKKIM			WEST BENGAL	
58. Shri Somnath Pudyal	<i>Ex-officio</i>		70. Shri Arup Roy	
Minister for Agriculture, Horticulture			Minister for Agriculture	
Animal Husbandry & Fisheries			Government of West Bengal	
Government of Sikkim Secretariat			Writers' Building	
Gangtok, Sikkim 737 101			Kolkata, West Bengal 700 001	
TAMIL NADU			71. Shri Swapan Debnath	<i>Ex-officio</i>
59. Shri R. Vaithilingam	<i>Ex-officio</i>		Minister for Animal Resources	
Minister for Agriculture & Horticulture			(Independent Charge)	
Government of Tamil Nadu			Government of West Bengal	
Chennai, Tamil Nadu 600 009			Writers' Building	
60. Shri K.A. Jayapal	<i>Ex-officio</i>		Kolkata, West Bengal 700 001	
Minister for Fisheries			72. Shri Chandranath Sinha	<i>Ex-officio</i>
Government of Tamil Nadu			Minister for Fisheries	
Chennai, Tamil Nadu 600 009			Development Department	
61. Shri T.K.M. Chinnayya	<i>Ex-officio</i>		Government of West Bengal	
Minister for Animal Husbandry			Writers' Building	
			Kolkata, West Bengal 700 001	
			73. Shri Krishnendu Narayan Choudhury	<i>Ex-officio</i>
			Minister for Horticulture	

- Government of West Bengal
Writers Building
Kolkata, West Bengal 700 001
- v) *Member, Niti Ayog In-charge of Agriculture.*
74. Dr Ramesh Chand
Member (Agriculture) Niti Ayog
Yojana Bhawan, New Delhi 110 001
- vi) *Six members of Parliament—four elected by Lok Sabha and two elected by Rajya Sabha.*
75. Smt. Renuka Chowdhury 2 April 2018
Member of Parliament (RS)
H.No.8-1-116, Khanapuram(V)
Khammam Urban(M), Khammam District
Andhra Pradesh 507 002
Smt. Renuka Chowdhury
Member of Parliament (RS)
76, Lodhi Estate, New Delhi 110 003
76. Shri D. Bandyopadhyay 18 August 2018
Member of Parliament (RS)
GD - 89, Sector - III
Salt Lake, Kolkota
West Bengal 700 106
Shri D. Bandyopadhyay
Member of Parliament (RS)
C-202, SwarnaJayanti Apartments
Dr B.D. Marg, New Delhi 110 001
77. Shri Dushyant Chautala Till the expiry
Member of Parliament (LS) of term in Lok
18, Janpath, New Delhi 110 001 Sabha
78. Shri Sanjay Dhotre -do-
Member of Parliament (LS)
AB-95, Shahjahan Road
New Delhi 110013
79. Shri Raju Shetti -do-
Member of Parliament (LS)
226, North Avenue, New Delhi 110 001
80. Shri Ravneet Singh -do-
Member of Parliament (LS)
28, Dr. Rajendra Prasad Road
New Delhi 110001
- vii) *Director General, Indian Council of Agricultural Research.*
81. Dr S. Ayyappan Ex-officio
Director General
ICAR, Krishi Bhavan, New Delhi 110 001
- viii) *All Secretaries in the Ministry of Agriculture.*
82. Shri Siraj Hussain Ex-officio
Secretary (Agriculture & Cooperation)
Department of Agriculture & Cooperation
Krishi Bhavan, New Delhi 110 001
83. Shri Ashok Kumar Angurana Ex-officio
Secretary (ADF)
Department of Animal Husbandry
Dairying & Fisheries
Krishi Bhavan, New Delhi 110 001
- ix) *Secretary, Niti Ayog*
84. Shri Amitabh Kant Ex-officio
CEO, Niti Ayog, Yojana Bhavan,
Sansad Marg, New Delhi 110 001
- x) *Secretary, Department of Bio-Technology*
85. Prof. K. Vijay Raghavan Ex-officio
Secretary, Department of Biotechnology
Block 2, 7th Floor, CGO Complex
Lodhi Road, New Delhi 110 003
- xi) *Director General, Council of Scientific and Industrial Research*
86. Dr Girish Sahni Ex-officio
Director General
Council of Scientific and Industrial Research
Anusandhan Bhavan
2-Rafi Ahmed Kidwai Marg, New Delhi 110 001
- xii) *Chairman, University Grants Commission*
87. Prof. Ved Prakash Ex-officio
Chairman
University Grants Commission
Bahadur Shah Zafar Marg
New Delhi 110 002
- xiii) *Chairman, Atomic Energy Commission (or Director, Bhabha Atomic Research Centre, if nominated by the Chairman, Atomic Energy Commission).*
88. Dr Sekhar Basu Ex-officio
Chairman, Atomic Energy Commission
& Secretary to the Government of India
Department of Atomic Energy
Anushakti Bhavan
Chhatrapati Shivaji Maharaj Marg
Mumbai, Maharashtra 400 001
- xiv) *Member, Finance (Secretary/ Additional Secretary) in the Ministry of Finance, Government of India*
89. Shri Ajai Narayan Jha Ex-officio
Special Secretary (Expenditure)
Department of Expenditure
Ministry of Finance
North Block
New Delhi 110 001
- xv) *Four Vice-Chancellors of Agricultural Universities, nominated by the President.*
90. Dr Anil Kumar Singh 18 Oct. 2017
Vice Chancellor
Rajmata Vijayaraje Scindia Krishi Vishwa
Vidyalaya
Race Course Road, Gwalior
Madhya Pradesh 474002
91. Dr Madan Gopal Varshneya 18 Aug, 2017
Vice Chancellor,
Kamdhenu University,
Gandhinagar, Gujarat
92. Dr H.S. Gaur 18 Feb, 2016
Vice Chancellor,
Sardar Vallabhbhai Patel University of
Agriculture & Technology,
Meerut 250110, Uttar Pradesh
93. Dr A.R. Pathak 28 Dec, 2018
Vice Chancellor
Junagadh Agricultural University
Junagash, Gujarat 362 001
- xvi) *Five Technical Representatives, namely Agricultural Commissioner, Horticultural Commissioner, Animal Husbandry Commissioner, Fisheries Development Commissioner, from the Union Ministry of Agriculture and Inspector-General of Forests, Government of India*
94. Dr S.K. Malhotra
Agriculture Commissioner
Department of Agriculture & Cooperation
Ministry of Agriculture & Farmers Welfare
Krishi Bhavan
New Delhi 110 001
95. Dr S.K. Malhotra Ex-officio
Horticulture Commissioner,
Department of Agriculture & Cooperation
Ministry of Agriculture.
Krishi Bhavan
New Delhi 110 001

96. Dr Suresh S. Honnappagol *Ex-officio*
Animal Husbandry Commissioner
Department of Animal Husbandry, Dairying
& Fisheries,
Ministry of Agriculture,
Krishi Bhavan
New Delhi 110 001
97. Dr P. Paul Pandian *Ex-officio*
Fisheries Development Commissioner
Department of Animal Husbandry, Dairying
& Fisheries, Ministry of Agriculture
Krishi Bhavan, New Delhi 110 001
98. Dr S.K. Khanduri
Inspector General of Forests (NAEB)
Minister of Environment & Forests
Paryavaran Bhawan, B-Block
CGO Complex, Lodi Road
New Delhi 110 003
- xvii) *Fifteen scientists from within and outside the Council including one from the Indian Council of Medical Research*
99. Dr A. Gopalakrishnan 9 January, 2018
Director
Central Marine Fisheries Research Institute
Post Box No. 1603, Ernakulam North P.O.
Kochi (Kerala) 682 018
100. Dr D.P. Singh 9 January, 2018
(Former VC, JNKVV, Jabalpur)
House No. 800, Sector-15 A
Hisar 125 001, Haryana
101. Dr G. Trivedi 9 January, 2018
(Former VC, RAU, Pusa, Samastipur)
Matlupur, Via-Piar
Muzaffarpur, Bihar 843 115
102. Dr Kamala Kanta Saharia 9 January, 2018
Professor (Extension Education.)
Department of Extension Education,
College of Veterinary Science, AAU,
Khanpara, Guwahati, Asom 781 022
103. Dr N.C. Gautam 9 January, 2018
Vice-Chancellor
Mahatma Gandhi Chitrakoot
Gramodaya vishwavidhyalaya
Chitrakoot,
Satna 485334 (Madhya Pradesh)
104. Dr Vijay Singh Tomar 9 January, 2018
Vice Chancellor
Jawaharlal Nehru Krishi Viswa Vidyalaya
Krishi Nagar, Adhartal
Jabalpur-482004, Madhya Pradesh
105. Dr K. R. Kranthi 9 January, 2018
Director
Central Institute for Cotton Research
P.B.No.2, Shankarnagar P.O.,
Nagpur-440010, Maharashtra
106. Dr Umesh Chandra Sharma 9 January, 2018
President, Veterinary Council of India
A-Wing, 2nd Floor, August Kranti Bhawan
Bhikaji Cama Place, New Delhi 110 066
107. Dr A.K. Singh 9 January, 2018
Managing Director
National Horticultural Board
Ministry of Agriculture & Farmers
Welfare, 85, Institutional Area, Sector-18
Gurgaon (Haryana) 122 015
108. Dr Bhagwati Prasad Bhatt 9 January, 2018
Director,
ICAR Research Complex for Eastern
Region, ICAR Patna
P.O.Bihar Veterinary College
Patna-800014 Bihar
109. Dr Jitendra Chauhan 9 January, 2018
Head, Department of Agricultural Extension,
RBS College, Bichpuri
Agra, Uttar Pradesh 283 105
110. Dr S.S. Sengar, 9 January, 2018
Dean, College of Agriculture
Korea, Chhattisgarh 497 335
111. Dr Prakash Shastri 9 January, 2018
Professor (Plant Pathology)
College of Agriculture (RVSKVV)
Khandwa 450 001 (Madhya Pradesh)
112. VACANT
113. Dr Rashmi Arora, 9 January, 2018
Scientist G and Head (ECD), ICMR Hqrs.,
New Delhi
- xviii) *Three representatives of commerce and industry, nominated by the President.*
114. Shri Rakesh Bharti Mittal 1 Oct 2016
VC/MD, Bharti Enterprises Limited
Bharti Crescent, 1 Nelson Mandela Road
Vasant Kunj, Phase-II,
New Delhi 110 070
115. Shri Narendra Murkumbi 1 Oct, 2016
Managing Director
Shree Renuka Sugars Limited
7th Floor, Devchand House
Shiv Sagar Estate,
Dr. Annie Besant Road,
Worli, Mumbai 400 018
116. Shri Jayprakash Dandegaonkar 1 Oct, 2016
Vice Chairman, Maharashtra State Co-
Operative Sugar Factories Federation
Limited, Sakhar Bhavan, 11th Floor, Plot No. 230,
Nariman Point, Mumbai (Maharashtra) 400 021
- ix) *One farmer from each region of the country as mentioned in Rule 60(a) and four representatives of rural interests, nominated by the President. 4 Representatives of Rural Interests*
117. Chaudhary Gyan Singh 5 March 2016
Village- Sakauti, Post- Gurukul
Narson, District-Haridwar,
Uttarakhand-247 670
118. Shri Fazle Masood 1 Oct, 2016
14/627, Murad Ali Lane
Nai Basti, Lucknow
Uttar Pradesh 226 001
119. Vacant
120. Vacant
121. Vacant
122. Vacant
123. Vacant
124. Vacant
125. Shri Sudhir Kumar Bhargava
Director, Agroman Systems Pvt.Ltd.
25/2, Tardeo AC Market
Tardeo, Mumbai, Maharashtra 400 034
126. Shri Ratneshwari Prasad Singh 8 June, 2017
Village - Ratanpur,
Post - Badahrwa,
Distt. Satmadi 843 315, Bihar
127. Shri Suresh Chandel 8 April, 2018
Ex-member of Parliament,
Village - Beri, Post - Ropa
Distt., Bilaspur. Himanchal Pradesh 174 001
128. Shri Ram Krishna Kusmaria 8 April, 2018
Ex-Agriculture Minister,
Government of Madhya Pradesh,
Village - Sakora, Post - Hinota,
Tehsil-Hata,
Distt. - Damoh, Madhya Pradesh 470 661

xx) *Four Directors of the Indian Council of Agricultural Research Institutes, nominated by the President*

129. Dr A.K. Srivastava 21 May, 2016
 Director
 National Dairy Research Institute
 Karnal, Haryana 132 001
130. Dr P.S. Minhas 8 April, 2018
 Director
 National Institute of Abiotic Stress
 Management
 Malegaon, Baramati
 Pune, (Maharashtra) 413 115
131. Dr S.M.K. Naqvi 8 April, 2018
 Director
 Central Sheep and Wool Research Institute

Avikanagar, P.O. Malpura
 Tonk - District, Rajasthan 304501

132. Dr Bir Pal singh 21 May, 2016
 Director
 Central Potato Research Institute
 Shimla (Himachal Pradesh)

xxi) *Secretary, Indian Council of Agricultural Research-Member-Secretary*

- 133 Shri Chhabilendra Roul
 Addl. Secretary (DARE) & Secretary,
 Indian Council of Agricultural Research
 Krishi Bhavan,
 New Delhi 110 001



APPENDIX 2

MEMBERS OF THE GOVERNING BODY OF THE
INDIAN COUNCIL OF AGRICULTURAL RESEARCH SOCIETY**Rule 35(i)****Chairman**

- Dr. S. Ayyappan
Director-General,
Indian Council of Agricultural Research,
Krishi Bhavan,
New Delhi-110 001

- Junagadh Agricultural University
Junagadh-362 001, Gujarat
- Prof. Aditya Kumar Misra
Vice Chancellor
Maharashtra Animal & Fishery Sciences University
Futala Lake Road, Nagpur (Maharashtra) 440 001

Rule 35(ii)**Ex-Officio Members****Member, Finance**

- Shri Ajay Narayan Jha
Special Secretary (Expenditure)
Department of Expenditure,
Ministry of Finance, North Block
New Delhi - 110 001

*Ex-Officio***Rule 35(iii)****Secretary, Niti Ayog**

- Shri Amitabh Kant
CEO, Niti Ayog,
Yojana Bhavan, Sansad Marg,
New Delhi - 110 001

*Ex-Officio***Rule 35(iv)****Secretary, Agriculture**

- Shri Siraj Hussain
Secretary (Agriculture & Cooperation)
Department of Agriculture & Cooperation
Ministry of Agriculture
Krishi Bhavan, New Delhi - 110 001

*Ex-Officio***Rule 35(v)****Secretary, Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture**

- Shri Ashok Kumar Angurana
Secretary (ADF),
Department of Animal Husbandry, Dairying and
Fisheries, Ministry of Agriculture, Krishi Bhavan,
New Delhi - 110 001

*Ex-Officio***Rule 35(vi)**

Three Scientists (including one management expert who are not employees of ICAR-nominated by the President)

- Vacant
- Vacant
- Vacant

Rule 35 (vii)**Five Vice-Chancellors of Agricultural Universities-nominated by the President)**

- Dr Anil Kumar Singh
Vice Chancellor,
Rajmata Vijayaraje Scindia Krishi Vishwa
Vidyalaya,
Race Course Road, Gwalior
Madhya Pradesh 474 002
18.10.2017
- Dr H.S. Gaur
Vice Chancellor,
Sardar Vallabhbhai Patel University of
Agriculture & Technology,
Meerut 250 110, Uttar Pradesh
18.02.2016
- Dr Madangopal C Varshneya
Vice Chancellor,
Kamdhenu University,
Gandhinagar, Gujarat 382 010
18.08.2017
- Dr A.R. Pathak
Vice Chancellor
28.12.2018

Rule 35(viii)**Three Members of Parliament nominated by the President-
(Two from Lok Sabha and one from Rajya Sabha)**

- Smt. Renuka Chowdhury
Member of Parliament (RS)
76, Lodhi Estate
New Delhi 110 003
02.04.2018

Smt. Renuka Chowdhury
Member of Parliament (RS), H.No.8-1-116
Khanapuram(V)
Khammam Urban(M), Khammam District
Andhra Pradesh-507 002

- Shri Sanjay Dhotre
Member of Parliament
(LS) At & Post. Paalso, (Badhe),
Tel. Akola,
Distt. Akola (Maharashtra) 444001
11.02.2018

Shri Sanjay Dhotre
Member of Parliament (LS)
AB-95, Shahjahan Road,
New Delhi 110003

- Shri Ravneet Singh
Member of Parliament (LS)
Village – Kotla Afghana,
District Ludhiana- 141416
11.02.2018

Shri Ravneet Singh
Member of Parliament (LS)
H.No. 28, Dr. Rajendra Prasad Road,
New Delhi - 110 001

Rule 35(ix)**Four Farmers/Representatives of Rural Areas nominated
by the President**

- Shri Sudhir Kumar Bhargava,
Director, Agroman Systems
Pvt. Ltd.
25/2, Tardeo AC Market,
Tardeo, Mumbai (Maharashtra) 400 034
08.06.2017
- Shri Ratneshwari Prasad Singh
Village- Ratanpur
Post- Badahrwa
Distt. Sitamarhi – 843315, Bihar
08.04.2018
- Shri Suresh Chandel
Ex- Member of Parliament
Village- Gandhi Ropa
P.O. Beri,
Tehsil & District (Himachal Pradesh) Bilaspur
08.04.2018

F Preferred Contact Address:

- Shri Suresh Chandel
Ex- Member of Parliament
House No. 70/5, Roura Sector-3
Bilaspur, Himachal Pradesh
08.04.2018
- Dr Ram Krishna Kusmaria
Ex- Agriculture Minister
Govt. of Madhya Pradesh
Village- Sakora, Post- Hinota
Tehsil- Hata, Distt. Damoh, Madhya Pradesh

Rule 35(x)**Three Directors of Research Institutes of the Council nominated by the President**

- | | |
|--|------------|
| 22. Dr A.K. Srivastava | 21.05.2016 |
| Director,
National Dairy Research Institute
Karnal, Haryana 132 001 | |
| 23. Dr P.S. Minhas | 21.05.2016 |
| Director,
National Institute of Abiotic Stress
Management,
Malegaon, Baramati
Pune (Maharashtra) 413 115 | |
| 24. Dr Bir Pal Singh | 21.05.2016 |
| Director
Central Potato Research Institute
Shimla (Himachal Pradesh) 171001 | |

Rule 35(xi)**Four representatives of State Governments to be nominated zone-wise on a rotational basis by Director General, ICAR**

- | | |
|--|------------|
| 25. Shri Parmesh Pandey | 15.06.2017 |
| Principal Secretary
Department of Agriculture
Government of Karnataka
Room No. 411
4th Floor, M.S. Building,
Bengaluru (Karnataka) 560001 | |
| 26. Shri Rajesh Verma, IAS | 15.06.2017 |
| Principal Secretary
Department of Agriculture
Government of Odisha | |

Odisha Secretariat
Bhubaneswar (Odisha) 751001

- | | |
|--|------------|
| 27. Shri A.N. Solanki | 15.06.2017 |
| Principal Secretary
Department of Agriculture and Co-operation,
Government of Gujarat
Block No. 5, First Floor
New Sachivalaya
Gandhinagar (Gujarat) 382010 | |
| 28. Shri Amit Mishra | 15.06.2017 |
| Agriculture Production Commissioner,
Department of Agriculture
Government of Uttar Pradesh
UP Civil Secretariat
Lucknow (Uttar Pradesh) 226001 | |

Rule 35(xii)**One representative of Agro and Agro-Processing Industries to be nominated by President**

29. Vacant

Rule 35(xiii)**One representative from a distinguished Non-Governmental Organization dealing with Agriculture/ Extension nominated by President**

30. Vacant

Rule 35(xiv)**Secretary, ICAR- Member Secretary**

31. Shri Chhabilendra Roul
Additional Secretary(DARE) & Secretary, ICAR,
KrishiBhawan,
New Delhi- 110 001



APPENDIX 3

SENIOR OFFICERS AT THE HEADQUARTERS OF THE ICAR

1. Dr S. Ayyappan
Director General, ICAR and
Secretary to the Government of India,
Department of Agricultural Research and Education
2. Shri Chhabilendra Roul
Secretary, ICAR and
Additional Secretary to Government of India,
Department of Agricultural Research and Education

Deputy Directors General

1. Dr A.K. Sikka (NRM)
2. Dr J.S. Sandhu (Crop Science)
3. Dr N.K. Krishna Kumar (Horticultural Science)
4. Dr K. Alagusundaram (Agricultural Engineering)
5. Dr N.S. Rathore (Agricultural Education)
6. Dr A.K. Singh (Agricultural Extension)
7. Dr Habibar Rahman (Animal Science)
8. Dr Joykrushna Jena (Fisheries Science)

O.S.D.

1. Dr (Mrs.) B. Meenakumari (Agri Edn)
2. Dr W. S. Lakra (Fy Sci.)
3. Dr R. K. Mittal (IR)

Assistant Directors General

1. Dr J.S. Chauhan (Seed)
2. Dr P.K. Chakrabarty (PP&B)
3. Dr B.B. Singh (OP)
4. Dr I.S. Solanki (F&FC)
5. Dr T. Janakiram (Hort.Sci.-I)
6. Dr S.K. Chaudhari (S&WM)
7. Dr Kanchan Kumar Singh (FE)
8. Dr R.S. Gandhi (AP&B)
9. Dr B.S. Prakash (AN&P)
10. Dr Ashok Kumar (AH)
11. Dr S.D. Singh (Inland Fisheries)
12. Dr P. Pravin (Marine Fy)
13. Dr V. P. Chahal (Extension)
14. Dr G. Venkateshwarlu (EQA&R)
15. Dr M.B. Chetti (HRD)
16. Dr P.S. Pandey (EP&HS)
17. Dr A.K. Vasisht (PIM)
18. Dr Shiv Prasad Kimothi (Cdn.)
19. Dr A.K. Vyas (HRM)
20. Dr P.K. Agrawal, ADG (NASF)

Project Director

1. Dr Rameshwar Singh

Principal Scientists

1. Dr A.K. Bawa (Principal Scientific Officer to DG, ICAR)
2. Dr A. Arunachalam (Principal Scientific Officer to DG, ICAR)
3. Dr Rajan (PP)
4. Dr S.K. Jha (OP)
5. Dr Dinesh Kumar (FFC)
6. Dr Y.P. Singh (CC)
7. Dr P.R. Chaudhary (Seeds)

8. Dr Ranvir Singh (HS)
9. Dr Manish Das (HS)
10. Dr Vikramaditya Pandey (HS)
11. Dr B.K. Pandey (HS)
12. Dr P.P. Biswas (Soils)
13. Dr S.K. Dhyani (AF)
14. Dr Adulul Islam (WM)
15. Dr B.K. Kandpal (Agro)
16. Dr M.K. Agnihotri (Controller of Exam)
17. Dr (Mrs.) Vanita Jain
18. Dr K.L. Khurana (EQA & R)
19. Dr K.P. Tripathi
20. Dr Neeraj Rana (HRD)
21. Dr (Mrs.) Nidhi Verma
22. Sh. Anil Agarwal (M Fy)
23. Dr (Mrs) Yasmeen Basade (Inland Fy)
24. Dr Devinder Dhingra (AS & PE)
25. Dr Rajan Gupta (AN)
26. Dr Vineet Bhasin (AG & B)
27. Dr (Mrs.) Jyoti Misri (AH)
28. Dr (Mrs.) Neelam Gupta (Ani Biotech)
29. Dr (Mrs.) Harjit Kaur (Agric. Extn)
30. Dr P. Adhiguru (Agric. Extn)
31. Dr N.K. Jain (HRM)
32. Dr M. K. Tripathi (PIM)
33. Dr P.K. Katiha (PIM)
34. Dr A.S. Mishra (Tech. Cdn.)
35. Dr S. Mauria (IPTM)
36. Dr Sanjeev Saxena (IPTM)

Results Framework Document (RFD) Coordination Unit

1. Dr R.K. Tomar

National Agricultural Education Project

1. Dr P. Ramasundaram, Principal Scientist and National Co-ordinator
2. Dr R.B. Sharma, Principal Scientist and National Co-ordinator

Agricultural Scientists' Recruitment Board

1. Dr Gurbachan Singh, Chairman
2. Dr V.N. Sharda, Member
3. Dr S K Bandyopadhyay, Member (up to 4.12.2015)
4. Dr A.P. Ruhil, Principal Scientist
5. Sh. J. Ravi, Secretary
6. Sh. Rajiv Mangotra, Deputy Secretary
7. Sh. S.P. Sanwal, Controller of Examination
8. Sh. K.N. Choudhary, Deputy Secretary

Directorate of Knowledge Management in Agriculture

1. Dr Rameshwar Singh, Project Director
2. Dr (Mrs.) N. Kanaka Durga, Principal Scientist
3. Dr R. Rana, Senior Scientist
4. Dr V.K. Bharti, Chief Production Officer
5. Dr Jagdeep Saxena, Editor (Hindi) and Unit Incharge
6. Dr Aruna T. Kumar, Editor (English) and Unit Incharge
7. Sh Hans Raj, Information System Officer
8. Sh S.K. Joshi, Business Manager
9. Sh Anil Sharma, Public Relations Officer

Administration**Senior Director**

1. Sh. G.R. Deshbandhu (Administration)

Directors

1. Sh. Sanjay Kant, Director (Personnal)
2. Sh. N.S. Randhawa, Director (AS)
3. Sh. Devender Kumar, Director (F)
4. Sh. V.P. Kothiyal, Director (Works)
5. Sh. S.K. Mitra, Director (GAC)
6. Sh. S. Bilgrami, Director (F)

Deputy Secretaries

1. Sh. Rajiv Maheshwari
2. Sh. P. Sakthivel
3. Ms. Namrta Sharma
4. Sh. P.K. Bage
5. Sh. Kanhaiya Chaudhary
6. Sh. S.K. Behera
7. Sh. V.K. Sharma
8. Ms. Roja Sethumadhavan
9. Sh. M.K. Jain
10. Sh. Pushpendra Kumar
11. Ms. Sunita Sharma



APPENDIX 4

ICAR INSTITUTES AND THEIR DIRECTORS

National Institutes

1. Dr Trilochan Mohapatra
Indian Agricultural Research Institute
New Delhi 110 012
2. Dr Raj Kumar Singh
Indian Veterinary Research Institute
Izatnagar – 243 122, Uttar Pradesh
3. Dr A.K. Srivastava
National Dairy Research Institute
Karnal – 132 001, Haryana
4. Dr Gopal Krishna (Acting)
Central Institute of Fisheries Education
Jaiprakash Road, Seven Bungalow (Versova)
Mumbai – 400 061, Maharashtra
5. Dr D. Rama Rao
National Academy of Agricultural
Research Management
Rajendranagar, Hyderabad – 500030
Andhra Pradesh
6. Dr P.S. Minhas
National Institute of Abiotic Stress Management
Malegaon, Baramati, Pune -413 115 Maharashtra
7. Dr T.R. Sharma, OSD
Indian Institute of Agricultural
Biotechnology, Ranchi, Jharkhand
8. Dr K.R. Kranthi, OSD
National Institute of Biotic Stress
Management, Raipur, Chhattisgarh
9. Dr R. Ramani, OSD
IARI, Goriya Karma, Barhi, Dist Hazaribagh, Jharkhand

Agricultural Sciences

10. Dr S.D. Roy
Central Island Agricultural Research
Institute, Post Box No. 181
Port Blair 744 101
Andaman & Nicobar Islands
11. Dr C.B. Pandey (Acting)
Central Arid Zone Research Institute
Jodhpur – 342 003 Rajasthan
12. Dr K.K. Singh
Central Institute of Agricultural
Engineering, Nabi Bagh Berasia
Road, Bhopal – 462 038 (M.P.)
13. Dr Satish Kumar Sharma
Central Institute of Arid Horticulture
Bikaner 334 006, Rajasthan
14. Dr K.R. Kranthi
Central Institute for Cotton Research
Post Bag No. 2, Shankar Nagar P.O.
Nagpur 440 010 (Maharashtra)
15. Dr Shailendra Rajan
Central Institute for Sub-tropical Horticulture
Rehmankheda, PO Kakori
Lucknow 227 107 (Uttar Pradesh)
16. Dr Desh Beer Singh (Acting)
Central Institute of Temperate Horticulture
Old Air Field, Rangreth 190 007
Jammu and Kashmir
17. Dr R.K. Gupta
Central Institute of Post Harvest Engineering
and Technology
P.O. PAU Campus
Ludhiana - 141 004, Punjab
18. Dr P.K.G. Patil (Acting)
Central Institute for Research on Cotton Technology
Adenwala Road, Matunga
Mumbai – 400 019, Maharashtra
19. Dr P. Chowdappa
Central Plantation Crops Research Institute
Kasargod – 671 124, Kerala
20. Dr Bir Pal Singh
(Re-employed pensioner)
Central Potato Research Institute
Shimla – 171 001, Himachal Pradesh
21. Dr Ch. Srinivasarao
Central Research Institute for Dryland Agriculture
Santoshnagar, Saidabad P.O.,
Hyderabad – 500 059, Andhra Pradesh
22. Dr Debasis Nag
National Institute of Research on Jute &
Allied Fibre Technology,
12, Regent Park, Kolkata – 700 040, West Bengal
23. Dr A.K. Nayak (Acting)
National Rice Research Institute
Cuttack – 753 006, Odisha
24. Dr D.K. Sharma
Central Soil Salinity Research
Institute, Zarifa Farm, Kachhwa
Road, Karnal – 132 001, Haryana
25. Dr P.K. Mishra
Indian Institute of Soil & Water Conservation
218, Kaulagarh Road
Dehra Dun – 248 195, Uttara Khand
26. Dr D. Damodar Reddy
Central Tobacco Research Institute,
Rajahmundry – 533 105 Andhra Pradesh
27. Dr S.K. Chakrabarti
Central Tuber Crops Research
Institute, Sreekeriyam,
Thiruvananthapuram-695 017, Kerala
28. Dr N.P. Singh
Central Coastal Agricultural Research
Institute, Ela, Old Goa, North Goa 403 402 Goa
29. Dr B.P. Bhatt
ICAR Research Complex for Eastern Region
ICAR Patna,
P.O. Bihar Veterinary College
Patna – 800 014, Bihar
30. Dr S.V. Ngachan
ICAR Research Complex for NEH
Region, Umroi Road, Umiam, Ri-Bhoi
Meghalaya – 793 103
31. Dr U.C. Sud
Indian Agricultural Statistics Research Institute
Library Avenue, Pusa Campus
New Delhi – 110 0012
32. Dr P.K. Ghosh
Indian Grassland & Fodder Research Institute
Pahuj Dam, Gwalior Road
Jhansi – 284 003, Uttar Pradesh
33. Dr M. Anandraj (Additional Charge)
Indian Institute of Horticultural Research
Hessaraghatta Lake Post
Bengaluru – 560 089, Karnataka
34. Dr Narendra Pratap Singh
Indian Institute of Pulses Research
Kanpur – 208 024, Uttar Pradesh
35. Dr Ashok Kumar Patra
Indian Institute of Soil Sciences
Nabi Bagh, Berasia Road,
Bhopal – 462 038, Madhya Pradesh
36. Dr M. Anandraj
Indian Institute of Spices Research
Marikunnu P.O., Calicut - 673 012 Kerala
37. Dr A.D. Pathak (Acting)
Indian Institute of Sugarcane Research
Rai Bareilly Road, P.O. Dilkusha
Lucknow – 226 002, Uttar Pradesh
38. Dr K.K. Sharma (Acting)
Indian Institute of Natural Resins and Gums
Namkum, Ranchi – 834 010, Jharkhand

39. Dr Bijendra Singh
Indian Institute of Vegetable
Research, PB No. 01,
PO Jakhini, Shahanshapur
Varanasi 221 005 (Uttar Pradesh)
40. Dr Bakshi Ram
Sugarcane Breeding Institute
Coimbatore 641 007, Tamil Nadu
41. Dr A. Pattanayak
Vivekanand Parvatiya Krishi
Anusandhan Sansthan
Almora 263 601, Uttarakhand
42. Dr P.G. Karmakar
Central Research Institute for Jute
& Allied Fibres, Barrackpore, Kolkata 700120
43. Dr J.P. Singh (Acting)
Indian Institute of Farming System Research,
Modipuram, Meerut 250 110, Uttar Pradesh
44. Dr O.P. Yadav
Indian Institute of Maize Research
Indian Agricultural Research
Institute, Pusa, New Delhi 110 012
45. Dr Ravi Kumar Mathur
Indian Institute of Oil Palm Research
Pedavegi 534 450, West Godavari, Andhra Pradesh
46. Dr K.S. Varaprasad
Indian Institute of Oilseeds Research
Rajendranagar, Hyderabad 500 030 Andhra Pradesh
47. Dr V. Ravindra Babu
Indian Institute of Rice Research
Rajendranagar, Hyderabad 500 030 Andhra Pradesh
48. Dr (Mrs.) Indu Sharma
Indian Institute for Wheat and Barley Research
P. Box No. 158, Agrasain Marg
Karnal 132 001, Haryana
49. Dr S.K. Ambast
Indian Institute of Water Management,
Opposite Rail Vihar, Chandrasekharapur
Bhubaneswar, Odisha 751 023
50. Dr S.K. Srivastava (Acting)
Central Institute for Women in Agriculture
Plot No.50, Mauza-Jokalandi
P.O. Baramunda, Bhubaneswar 751 003 Odisha
51. Dr O.P. Chaturvedi
Central Agro-Forestry Research Institute
Near Pahuj Dam
Jhansi 284 003, Uttar Pradesh
52. Dr M.S. Ladaniya
Central Citrus Research Institute
P.B. No. 464, Shankar Nagar P.O.
Amravatcoad, Nagpur 440 010
Maharashtra
53. Dr P.S. Birthal (Acting)
National Institute of Agricultural Economics &
Policy Research
P.B. No. 11305, DPS Marg,
Pusa, New Delhi 110 012.
54. Dr T.G. Nageswara Rao (Acting)
Indian Institute of Millets Research,
Rajendranagar, Hyderabad, Andhra Pradesh 500 030

Animal Sciences and Fisheries

55. Dr Jag Mohan Kataria
Central Avian Research Institute
Izatnagar, Bareilly, Uttar Pradesh 243 122
56. Dr Inderjeet Singh
Central Institute for Research on Buffaloes
Sirsa Road, Hisar 125 001, Haryana
57. Dr. Satish Kumar (Acting)
Central Institute of Research on
Goats, Makhdoom,
Mathura 281 122 (Uttar Pradesh)
58. Dr V.R. Suresh (Acting)
Central Inland Fisheries Research Institute
Barrackpore, West Bengal 700 120
59. Dr K.K. Vijayan
Central Institute of Brackishwater Aquaculture
75, Santhome High Road
Raja Annamalai Puram
Chennai (Kerala) 600 028
60. Dr Ravishankar C.N.
Central Institute of Fisheries Technology
Willingdon Island, Matsyapuri P.O.
Cochin 682 029, Kerala
61. Dr. P. Jayasankar
Central Institute of Freshwater
Aquaculture,
Kausalyaganga, Bhubaneswar
Khurda 751 002, Odisha
62. Dr A. Gopalakrishnan
Central Marine Fisheries Research Institute
P.B. No. 1603, Ernakulam North
P.O., Kochi, Kerala 682 018
63. Dr S.M.K. Naqvi
Central Sheep & Wool Research
Institute, Avikanagar 304 501, Distt.
Tonk, Rajasthan
64. Dr Ragheendra Bhatta,
National Institute of Animal Nutrition & Physiology
Adugodi, Bengaluru (Karnataka) 560 030
65. Dr Vijendra Pal Singh
National Institute of High Security
Animal Diseases, Anand Nagar
Bhopal 462021
67. Dr B.R. Shome
National Institute of Veterinary
Epidemiology and Disease Informatics
H.A. Farm Post, Hebbal
Bengaluru 560 024 (Karnataka)
68. Dr Birham Prakash
Central Institute for Research on
Cattle, P.B. No. 17, Grass Farm Road
Meerut Cantt. 250 001 (Uttar Pradesh)



APPENDIX 5

NATIONAL BUREAUX AND THEIR DIRECTORS

Agricultural Sciences

1. Dr Abraham Verghese
National Bureau of Agricultural Insect
Resources, P.B. No. 2491, H.A. Farm
Post, Bengaluru, (Karnataka) 560 024
2. Dr S.K. Sharma (Acting)
National Bureau of Agriculturally
Important Micro-organisms, P.B. No. 6,
Kusmaur, Maunath Bhanjan
(Uttar Pradesh) 275 101
3. Dr K.C. Bansal
National Bureau of Plant Genetic
Resources, Pusa Campus,
New Delhi 110 012

4. Dr Surendra Kumar Singh
National Bureau of Soil Survey and
Land Use Planning, Shankar Nagar,
P.O. Amravati Road, Nagpur 440 010 (Maharashtra)

Animal Sciences

5. Dr Arjava Sharma
National Bureau of Animal Genetic
Resources, P.B. No. 129, G.T. Road Bye
Pass, Karnal (Haryana) 132 001
6. Dr Rehana Abidi
Director (Acting)
National Bureau of Fish Genetic
Resources, Canal Ring Road, P.O.
Dilkusha, Lucknow
(Uttar Pradesh) 226 002



APPENDIX 6

PROJECT DIRECTORATES, ATARI AND THEIR DIRECTORS

Agricultural Sciences

1. Dr Radhakrishnan T.
Directorate of Groundnut Research,
Post Box No. 5, Ivnagar Road,
Junagadh 362 001, Gujarat
2. Dr Dhiraj Singh
Directorate of Rapeseed - Mustard
Research, Sear,
Bharatpur 321 303, Rajasthan
3. Dr S. Rajendra Prasad,
Directorate of Seed Research
P.B. No. 11, Kusmaur, P.O. Kaithauli,
Mau Nath Bhanjan – 275 101 (UP)
4. Dr V.S. Bhatia
Directorate of Soybean Research
Khandwa Road,
Indore 452 017, Madhya Pradesh
5. Dr A.R. Sharma
Directorate of Weed Research,
Maharajpur, Adhartal,
Jabalpur 482 004, Madhya Pradesh
6. Dr P.L. Saroj
Directorate of Cashew Research
Darbe, P.O. Puttur 574 202,
Dakshina Kannada Karnataka.
7. Dr K. V. Prasad
Directorate of Floriculture Research
Pune
8. Dr Jitendra Kumar
Directorate of Medicinal & Aromatic
Plants Research,
Boriavi, Anand 387 310,
Gujarat
9. Dr Ved Prakash Sharma
Directorate of Mushroom Research
Chambaghat,
Solan (Himachal Pradesh) 173 213
10. Dr Jai Gopal
Directorate on Onion and Garlic
Research,
Rajgurunagar, Pune 410 505,
Maharashtra
11. Dr Rameshwar Singh
Project Directorate of Knowledge Management
in Agriculture
Krishi Anusandhan Bhavan I
New Delhi 110 012

Animal Sciences

12. Dr B. Pattnaik
Directorate of Foot-and Mouth-Disease
IVRI Campus, Mukteshwar 263 138
(Uttar Khand)
13. Dr R.N. Chatterjee
Directorate of Poultry Research,
Rajendranagar, Hyderabad 500 030
Andhra Pradesh
14. Dr Atul Kumar Singh
Directorate of Coldwater Fisheries
Research, Anusandhan Bhawan,
Industrial Area, Bhim Tal 263 136,
Uttarakhand

Others

15. Dr (Mrs.) Ravinder Kaur
Water Technology Centre, IARI
New Delhi 110012

Knowledge Management

16. Dr Rameshwar Singh
Project Director
Directorate of Knowledge Management in Agriculture
KAB-I, Pusa Campus
New Delhi 110012

Agriculture Technology Application Research Institutes

17. Dr Rajbir Singh
Agricultural Technology Application
Research Institute, Zone-I, PAU
Campus, Ludhiana 141004
Punjab
18. Dr Ajoy Kumar Singh
Agricultural Technology Application
Research Institute, Zone-II,
Bhumi Vihar, Block-GB,
Sector-III, Salt Lake,
Kolkata-700097 West Bengal
19. Dr A.K. Tripathi (Acting)
Agricultural Technology Application
Research Institute, Zone-III, TOP,
Umroi Road, Barapani - 793103
Meghalaya
20. Dr U.S. Gautam
Agricultural Technology Application
Research Institute, Zone-IV,
G.T. Road, Rawatpura,
Near Vikas Bhawan, Kanpur-208002
Uttar Pradesh
21. Dr Y.G. Prasad
Agricultural Technology Application
Research Institute, Zone-V, CRIDA
Complex, Santoshnagar,
Hyderabad - 500 059, Andhra Pradesh
22. Dr P.P. Rohilla (Acting)
Agricultural Technology Application
Research Institute, Zone-VI, CAZRI
Campus,
Jodhpur - 342003 Rajasthan
23. Dr Anupam Mishra
Agricultural Technology Application
Research Institute, Zone-VII, JNKVV
Campus, Jabalpur-484002
Madhya Pradesh
24. Dr Sreenath Dixit
Agricultural Technology Application
Research Institute, Zone-VIII,
ICAR Transfer of Technology Project,
MRS HA Farm Post, Hebbal,
Bengaluru - 560030, Karnataka



APPENDIX 7

NATIONAL RESEARCH CENTRES AND THEIR DIRECTORS

Agricultural Sciences

1. Dr B. Padmanaban (Acting)
National Research Centre for Banana,
Thogamalai Road, Thayanur Post,
Thiruchirapalli – 620 102, Tamil Nadu
2. Dr S.D. Swant
National Research Centre for Grapes,
P.B. No. 3, Manjri Farm Post,
Solapur Road, Pune - 412 307,
Maharashtra
3. Dr Chirantan Chattopadhyay
National Research Centre for Integrated
Pest Management,
LBS Building, Pusa Campus,
New Delhi – 110 012.
4. Dr Vishal Nath
National Research Centre for Litchi
Mushahari Farm, Mushahari,
Muzaffarpur – 842 002, Bihar
5. Dr D. R. Singh
National Research Centre for Orchids,
Pakyong,
Gangtok – 737 106 Sikkim
6. Dr T.R. Sharma
National Research Centre on Plant
Biotechnology, L.B.S. Building,
Pusa, New Delhi – 110 012.
7. Dr R.K. Pal
National Research Centre on
Pomegranate,
NH-9, Bypass Road, Shelgi
Sholapur – 413006 Maharashtra

8. Dr Balraj Singh
National Research Centre on Seed Spices,
Tabiji – 305 206, Ajmer, Rajasthan
9. Dr B.P. Bhat
NRC Integrated Farming System
Motihari (Bihar)

Animal Sciences and Fisheries

10. Dr N.V. Patil
National Research Centre on Camel
Jorbeer, P.B. No. 07
Bikaner – 334 001, Rajasthan
11. Dr B.N. Tripathi
National Research Centre for Equines,
Hissar – 125 001, Haryana
12. Dr V.V. Kulkarni
National Research Centre on Meat,
Chengicherla, P.B. No. 19, Uppal PO,
Hyderabad – 500 039 Andhra Pradesh
13. Dr Abhijit Mitra
National Research Centre for Mithun,
Jharnapani, P.O. Medziphema– 797 106,
Nagaland
14. Dr D. K. Sarma
National Research Centre on Pig,
Rani, Guwahati – 781 131,
Assam
15. Dr S.M. Deb
National Research Centre on Yak,
Dirang, West Kameng – 790 101
Arunachal Pradesh

APPENDIX 8

ALL INDIA CO-ORDINATED RESEARCH/NETWORK RESEARCH/OTHERS/PROJECTS

1. All India Co-ordinated Research Project (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,
Solani
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
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, Bhubaneswar
38. AICRP Dryland Agriculture, Hyderabad
39. AICRP on Agro-meteorology, 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
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

Network Research Projects

1. AIC Research Network on Potential Crops, New Delhi
2. Network Project on Transgenics
3. AINP on Soil Arthropod Pests, Durgapura, Rajasthan
4. AINP on Agricultural Acarology
5. AINP on Pesticides Residues, New Delhi
6. AINP on Arid Legumes, Kanpur
7. All India Network Research Project on Tobacco, Rajamundry
8. AINP on Jute and Allied Fibres, Barrackpore

9. AINP on Vertebrate Pest Management, Jodhpur
10. Network on Insect Biosystematics, New Delhi/Bengaluru
11. Application of Micro-organisms in Agriculture and Allied Sectors (AMAAS) +Microbial Genomic Resources repository network, Mau
12. Network O&G (included in Directorate)
13. Network on Medicinal & Aromatic Plants, Anand
14. AINP on Biofertilizer, Bhopal
15. Network Programme on Organic Farming, Modipuram
16. Network project on Harvesting, Processing and Value Addition of Natural Resins & Gums, Ranchi
17. Network Project on Conservation of Lac Insect Genetic Resources, Ranchi
18. Network project on Animal Genetic Resources, Karnal
19. Network on Sheep Improvement, Avikanagar
20. Network Project on Buffalo Improvement, Hissar
21. Network on Gastro Intestinal Parasitism, Izatnagar
22. Network on Haemorrhagic Septicemia, Izatnagar
23. Network Programme Blue Tongue Disease, Izatnagar
24. All India Network Program on Neonatal Mortality in Farm Animals (NNM), Izatnagar
25. All India Network Program on Diagnostic Imaging and Management of Surgical Condition in Animals, Izatnagar

Others

1. Technology Mission on Cotton (MM-I), Nagpur
2. Technology Mission on Jute (MM-I), Barrackpore
3. Seed Production in Agricultural Crops and Fisheries, Mau
4. National Innovation in Climate Resilient Agriculture, Hyderabad (under CRIDA Hyderabad)
5. Sheep Seed Project, Avikanagar
6. Goat Seed Project (in CIRG)
7. Veterinary Type Culture (as an integral part of NRC), Hisar
8. Poultry Seed Project, Hyderabad
9. Mega Seed Project on Pig, Guwahati
10. Krishi Vigyan Kendras
11. Strengthening and Development of Higher Agril. Education in India
12. CAU Imphal + CAU Barapani
13. Rani Lakshmi Bai CAU, Jhansi
14. RCAU Samastipur, Bihar
15. DARE (NAAS & IAUA)
16. Strengthening of ICAR Headquarters
17. National Agriculture Innovation Fund (NAIF), New Delhi
18. Attracting and Retaining Youth in Agriculture (ARYA)
19. National Agricultural Science Fund, KABJ, New Delhi 110 012



APPENDIX 9

AGRICULTURAL UNIVERSITIES

1. Acharya NG Ranga Agricultural University
Rajendranagar, Hyderabad (Andhra Pradesh) 500 030
2. Agriculture University Mandor
Jodhpur (Rajasthan) 342 304
3. Agriculture University Borkhera
Kota (Rajasthan) 324 001
4. Anand Agricultural University
Anand (Gujarat) 388 110
5. Assam Agricultural University
Jorhat (Assam) 785 013
6. Bidhan Chandra Krishi Viswavidyalaya
Mohanpur, Nadia (West Bengal) 741 252
7. Bihar Agricultural University
Sabour, Bhagalpur (Bihar) 813 210
8. Birsa Agricultural University
Kanke, Ranchi (Jharkhand) 834 006
9. Chandra Shekar Azad University of Agriculture & Technology
Kanpur (Uttar Pradesh) 208 002
10. Chaudhary Charan Singh Haryana Agricultural University
Hisar (Haryana) 125 004
11. Chhattisgarh Kamdhenu Vishwavidyalaya
Anjora, Durg (Chhattisgarh) 491 001
12. CSK Himachal Pradesh Krishi Vishwavidyalaya,
Palampur (Himachal Pradesh) 176 062
13. Dr Balasaheb Sawant Konkan Krishi Vidyapeeth
Dapoli, Ratnagiri (Maharashtra) 415 712
14. Dr Panjabrao Deshmukh Krishi Vidyapeeth
Krishi Nagar, Akola (Maharashtra) 444 104
15. Dr YSR Horticultural University
Venkataramannagudem, P.B. No. 7,
West Godavari Distt. (Andhra Pradesh) 534 101
16. Dr YS Parmar Univ of Horticulture & Forestry
Nauni, Solan (Himachal Pradesh) 173 230
17. Govind Ballabh Pant University of Agriculture and Technology
Pantnagar, Udham Singh Nagar (Uttara Khand) 263 145
18. Guru Angad Dev Veterinary and Animal Sciences University
Firozpur Road, Ludhiana (Punjab) 141 004
19. Indira Gandhi Krishi Vishwavidyalaya
Krishak Nagar, Raipur (Chhattisgarh) 492 006
20. Jawaharlal Nehru Krishi Viswa Vidyalya
Krishi Nagar, Adhartal, Jabalpur (Madhya Pradesh) 82 004
21. Junagadh Agricultural University
Near Motibagh, Vantali Road, Junagarh - 362 001 (GJ)
22. Kamdhenu University,
Gandhinagar (Gujarat) 382 010
23. Karnataka Veterinary, Animal & Fisheries Sciences University
PB No. 6, Nandinagar, Bidar - 585 401 (KTK)
24. Kerala Agricultural University
Vellanikkara, Thrissur (Kerala) 680 656
25. Kerala University of Fisheries and Ocean Studies
Papangad P.O., Kochi (Kerala) 682 506
26. Kerala Veterinary and Animal Sciences University
Pookode, Lakkidi P.O., Wayanad (Kerala) 673 576
27. Lala Lajpat Rai University of Veterinary & Animal Sciences
Hisar (Haryana) 125 004
28. Maharana Pratap University of Agriculture & Technology
Udaipur 313 001 (Rajasthan)
29. Maharashtra Animal and Fishery Sciences University
Futala Road, Telangkhedi, Nagpur - 440 001 (Maharashtra)
30. Mahatma Phule Krishi Vidyapeeth
Rahuri, Ahmednagar - 413 722 (Maharashtra)
31. Manyavar Shri Kanshiram Ji University of Agriculture and Technology
Chilla Road, Banda (Uttar Pradesh) 210 001
32. Nanaji Deshmukh Pashu Chikitsa Vigyan Vishwavidyalaya
South Civil Lines, Jabalpur (Madhya Pradesh) 482 001
33. Narendra Deva University of Agriculture and Technology
Kumarganj, Faizabad (Uttar Pradesh) 224 229
34. Navsari Agricultural University,
Eru Char Rasta, Navsari (Gujarat) 396 450
35. Orissa University of Agriculture and Technology
Bhubaneswar (Odisha) 751 003
36. Prof. Jayashankar Telangana State Agricultural University
Rajendranagar, Hyderabad (Telangana) 500 030
37. Punjab Agricultural University
Firozpur Road, Ludhiana (Punjab) 141 004
38. Rajasthan University of Veterinary and Animal Sciences
Bijay Bhavan Place Complex (Pt Deen Dayal circle)
Bikaner (Rajasthan) 334 001
39. Rajendra Agricultural University
Pusa, Samastipur (Bihar) 848 125
40. Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya
Race Course Road, Gwalior (Madhya Pradesh) 474 002
41. Sardar Ballabh Bhai Patel Univ. of Agriculture & Technology
Roorkee Road, Modipuram, Meerut (Uttar Pradesh) 250 110
42. Sardarkrushinagar Dantiwada Agricultural University
Sardarkrushinagar, Dantiwada (Gujarat) 385 506
43. Sher-e-Kashmir University of Agricultural Sciences & Technology
Shalimar Campus, Srinagar (Jammu and Kashmir) 190 025
44. Sher-e-Kashmir Univ of Agricultural Sciences & Technology,
Main Campus, Chatha,
Jammu (Jammu and Kashmir) 180 009
45. Sri Karan Narendra Agriculture University
Jobner (Rajasthan) 303 329
46. Sri Konda Laxman Telangana State Horticulture University
Rajendra Nagar, Hyderabad (Telangana) 500 030
47. Sri P. V. Narasimha Rao Telangana State University for Veterinary, Animal and Fisheries Science
Rajendra Nagar, Hyderabad (Telangana) 500 030
48. Sri Venkateswara Veterinary University
Tirupati (Andhra Pradesh) 517 502
49. Swami Keshwanand Rajasthan Agricultural University
Beechwal, Bikaner (Rajasthan) 334 006
50. Tamil Nadu Agricultural University
Lawley Road, Coimbatore (Tamil Nadu) 641 003
51. Tamil Nadu Fisheries University
First Line Beach Road,
Nagapattinam (Tamil Nadu) 611001
52. Tamil Nadu Veterinary & Animal Sciences University
Madhavaram Milk Colony Campus
Chennai (Tamil Nadu) 600 051
53. University of Agricultural Sciences
GKVK Campus, Bengaluru (Karnataka) 560 065
54. University of Agricultural and Horticultural Sciences
No. 126, Navile, Shimoga (Karnataka) 577 204
55. University of Agricultural Sciences
PB No. 329, Raichur (Karnataka) 584 102
56. University of Agricultural Sciences
Yettinagudda Campus, Krishi Nagar
Dharwad (Karnataka) 580 005

57. University of Horticultural Sciences
Bagalkot (Karnataka) 587 103
58. UP Pandit Deen Dayal Upadhaya Pashu Chikitsa Vigyan
Vishwa Vidhyalaya Evam Go Anusandhan Sansthan
Mathura (Uttar Pradesh) 281 001
59. Uttar Banga Krishi Viswavidyalaya
P.O. Pundbari, Cooch Behar - 736 165 (West Bengal)
60. Uttarakhand University of Horticulture and Forestry
Bharsar, Pauri Garhwal - 246 123 (Uttara Khand)
61. Vasant Rao Naik Marathwada Krishi Vidapeeth
Parabhani (Maharashtra) 431 402
62. West Bengal University of Animal & Fishery Sciences
KB Sarani, Kolkata (West Bengal) 700 037

Deemed University

1. Indian Agricultural Research Institute
Pusa, New Delhi - 110 012.
2. Central Institute of Fisheries Education
Versova, Andheri (West)
Mumbai (Maharashtra) 400 061
3. Indian Veterinary Research Institute
Izatnagar, Barielly (Uttar Pradesh) 243 122

4. National Dairy Research Institute
Karnal (Haryana) 132 001
5. Sam Higginbottom Institute of Agriculture,
Technology & Sciences
Rewa Road, Allahabad (Uttar Pradesh) 211 007

Central Agricultural University

1. Central Agricultural University
Iroisemba Imphal (Manipur) 795 004
2. Rani Lakshmi Bai Central Agricultural University
Jhansi (Uttar Pradesh).

Central Universities with Agriculture Faculty

1. Aligarh Muslim University
Aligarh (Uttar Pradesh) 202 002
2. Banaras Hindu University
Varanasi (Uttar Pradesh) 221 005
3. Nagaland University
Lumani (Nagaland)
4. Visva Bharti University
Shanti Niketan, Birbhum (West Bengal) 731 235



APPENDIX 10

Total number of employees in the ICAR and its research institutes and number of Scheduled Castes, Scheduled Tribes and Other Backward Classes

S.No.	Class of post	Total posts sanctioned	Total employees in position	SC employees		ST employees		OBC employees	
				No.	% to total employees	No.	% to Total employees	No.	% to total employees
1. Scientific Posts									
a.	Scientist	4,397	4,059	531	13.08	213	5.25	721	17.76
b.	Senior Scientist	1,159	948	88	9.28	17	1.79	152	16.03
c.	Principal Scientist	757	645	61	9.45	5	0.78	50	7.75
d.	RMP Scientist	172	137	3	2.19	1	0.73	2	1.45
	Total	6,485	5,789	683	11.79	236	4.08	925	15.98
2. Technical Posts									
a.	Category I	3,993	2,870	540	18.82	282	9.83	393	13.69
b.	Category II	2,650	2,205	357	16.19	146	6.62	312	14.15
c.	Category III	514	479	97	20.25	24	5.01	65	13.57
	Total	7,157	5,554	994	17.90	452	8.14	770	13.86
3. Administration Posts									
(a)	Category "A" posts: Senior Registrar/Director/Dy. Secretary/Under Secretary/CAOs/SAOs/AOs/CF&AO/SF&AO/F&AO/Legal Adviser/Director (OL)/DD(OL)/AD(OL)PPS	336	281	1	18.15	15	5.34	14	4.98
(b)	Category "B" posts: AF&AO/AAO/PS/SO/AD(OL)/ALA/Assistant/PA/Sr. Sales Assistant/JAO/ALA	1,239	919	188	20.45	81	8.81	75	13.57
(c)	Category "C" posts: UDC/Steno/LDC	3,302	2,590	445	17.18	195	7.53	318	12.28
	Total	4,877	3,790	684	18.04	291	7.68	407	10.74
4. Supporting skilled-Staff		8,419	5,487	1574	28.69	458	8.34	729	13.29

APPENDIX 11

ICAR AWARDS

AWARDS	AWARDEES
Sardar Patel Outstanding ICAR Institution Award 2014	ICAR's Large Institutes Central Research Institute for Dryland Agriculture, Hyderabad (Telengana) 502 324 ICAR's Small Institutes National Research Centre on Equines, Hisar (Haryana) 125 001 SAUs and DUs Assam Agricultural University, Jorhat (Asom) 785 013
Chaudhary Devi Lal Outstanding All India Coordinated Research Project Award 2014	1. Best AICRP All India Coordinated Research Project on Palms Central Plantation Crops Research Institute Kasaragod (Kerala) 671 124 2. Best AICRP Centre AICRP Centre Ambajipeta (Andhra Pradesh)
Norman Borlaug Award 2014	Prof. (Dr) Nagendra Kumar Singh National Professor B.P. Pal Chair (Genetics & Plant Breeding), New Delhi
Rafi Ahmed Kidwai Award for Outstanding Research in Agricultural Sciences 2014	Crop and Horticultural Sciences Dr Arvind Kumar Senior Scientist, IRRI, South Asia Hub, ICRISAT, Patancheru Hyderabad (Telengana) 502 324 Natural Resource Management and Agricultural Engineering Prof. Kamlesh Narayan Tiwari Professor, Department of Agricultural & Food Engineering Indian Institute of Technology Kharagpur (West Bengal) 721302 Animal and Fisheries Sciences Dr Sunita Grover Principal Scientist and Head, Dairy Microbiology Division National Dairy Research Institute Karnal (Haryana) 132001
Lal Bahadur Shastri Outstanding Young Scientist Award 2014	Crop and Horticultural Sciences Dr Aditya Pratap Senior Scientist, Crop Improvement Division, Indian Institute of Pulses Research, Kanpur (Uttar Pradesh) 208 024 Animal and Fisheries Sciences Dr A.Kumaresan Senior Scientist(Animal Reproduction)Livestock Research Centre National Dairy Research InstituteKarnal (Haryana) 132 001
Panjabrao Deshmukh Outstanding Woman Scientist Award 2014	Social Sciences Dr Shaik N.Meera Senior Scientist (Agriculture Extension) Transfer of Technology and Training Section Directorate of Rice Research (ICAR) Rajendranagar, Hyderabad (Telengana) 500 030 Dr (Mrs.) Prameela Krishnan Principal Scientist, Division of Agricultural Physics Indian Agricultural Research Institute, New Delhi 110 012 Dr (Mrs) Nirmala B. Yenagi Professor, Department of Food Science and Nutrition College of Rural Home ScienceUniversity of Agricultural Sciences Dharwad (Karnataka) 580 005

AWARDS	AWARDEES
Bharat Ratna Dr C. Subramaniam Award for Outstanding Teachers 2014	Dr (Mrs.) Anupama Principal Scientist, Division of Agricultural Chemicals, Indian Agricultural Research Institute, New Delhi 110 012
	Crop and Horticultural Sciences Dr Subhash Chander Professor and Principal Scientist Division of Entomology, Indian Agricultural Research Institute, New Delhi 110 012
	Natural Resource Management and Agricultural Engineering Dr Rangaraju Visvanathan Professor (Agricultural Processing) Anbil Dharamalingam Agricultural College and Research Institute TNAU, Navalur Kuttappattu, Tiruchirappalli (Tamil Nadu) 620 009
Fakhruddin Ali Ahmed Award for Outstanding Research in Tribal Farming Systems 2014	Animal and Fisheries Sciences Dr Bimlesh Mann Principal Scientist and Head Dairy Chemistry Division National Dairy Research Institute Karnal (Haryana) 132 001
	Dr Suresh Kumar D. S. Principal Scientist, Division of Livestock Production, ICAR Research Complex for NEH Region, Umroi Road Umiam (Meghalaya) 793103
	Dr G. Kadirvel (Associate) Senior Scientist ICAR Research Complex for NEH Region, Umroi Road Umiam (Meghalaya) 793103
Jawaharlal Nehru Award for P.G. Outstanding Doctoral Thesis Research in Agricultural and Allied Sciences 2014	Dr Sunil Doley (Associate), Senior Scientist ICAR Research Complex for NEH Region, Umroi Road Umiam (Meghalaya) 793103
	Dr P. K. Bharti (Associate) Scientist ICAR Research Complex for NEH Region, Umroi Road Umiam (Meghalaya) 793103
	Dr Badal Bhattacharya All India network Project on White Grubs and other Soil Arthropod Pests, Department of Entomology Assam Agricultural University Jorhat (Assam) 785013
	Dr Satyendra Kumar Dutta (Associate) All India network Project on White Grubs and other Soil Arthropod Pests, Department of Entomology Assam Agricultural University Jorhat (Assam) 785013
	Crop Science Dr Divya Balakrishnan Scientist (Plant Breeding and Genetics) Directorate of Rice Research Hyderabad (Telangana) 502 324
	Dr Niharika Mallick Scientist (Plant Breeding) Division of Genetics Indian Agricultural Research Institute, New Delhi 110 012
	Biotechnology (Plant/ Animal/ Fisheries) Dr Shallu Thakur VPO. Chowki Khalet, Tehsil: Palampur District Kangra (Himachal Pradesh) 176 061

AWARDS	AWARDEES
	Dr Rehna Augustine Chirayil, Kozha P.O., Kottayam (Kerala)686 633 Crop Protection Dr Sandeep Kumar Department of Plant Pathology AICRP on MULLaRP, Centre for Pulses Research Berhampur (Odisha)761 001 Dr Nandita Sahana Department of Biochemistry, Faculty of Agriculture Uttarbanga Krishi Viswavidyalaya, P.O. Pundbari Coochbehar (West Bengal) 736 165 Natural Resource Management Dr Saman Preet Ahuja 7FF, MIG Flats, F-Block, Bhai Randhir Singh Nagar Ludhiana (Punjab) 141 004 Dr Venkanna Kandula Division of Resource Management Central Research Institute on Dryland Agriculture Santosh Nagar, P. O. Saidabad Hyderabad (Andhra Pradesh) 500 059 Horticultural Science Dr Govind Kumar Rai Scientist, Department of Biotechnology C.G.O., Complex, Lodhi Road, New Delhi 110 003 Dr Pooja Bohra Scientist , Division of Horticulture and Forestry Central Island Agricultural Research Institute, Post Box No. 181 Port Blair (Andaman & Nicobar Islands) 744 101 Agriculture Engineering Dr Ashish Kumar Srivastava Assistant professor/ScientistSG College of Agriculture and Research Station, Kumhrawand,Jagdapur (C.G.) 494 001 Animal Science Dr Revanaiah Yogisharadhya Senior Technical OfficerNational Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI)ICAR Campus, Ramagondanalli, Yelahanka Bengaluru (Karnataka) 560 064 Dr Vikrant Singh Chouhan ScientistP and C Division, IVRI Izatnagar, Bareilly, (Uttar Pradesh) 243 122 Fisheries Science Dr Neeraj Kumar Scientist, National Institute of Abiotic Stress Management , Malegaon, Baramati Pune (Maharashtra) 413 115 Dr Vikas Pattath Ayyappan Pattath House, Thazhkkad P.O.Trichur (Kerala) 680 697 Social Sciences Dr Sanjit Maiti Scientist NRC on YakDirang, West Kameng District (Arunachal Pradesh) 790101 Dr Venkatesh Palanisamy Scientist, Division of Agricultural Economics Indian Agricultural Research Institute, Pusa, New Delhi 110 012

AWARDS	AWARDEES
Jagjivan Ram Abhinav Kisan Puruskar / Jagjivan Ram Innovative Farmer Award (National/Zonal) 2014	National Shri Dipen Kumar Mukundbhai Shah 879, Shah's Street, Near Rameshwar Temple Ta & Distt. Anand, P.O. Kunjrao (Gujarat) 388 335
Zone 1	Major Manmohan Singh Verka D-107, Ranjit Avenue, Amritsar-142001, Punjab
Zone 2	Smt. Anita Kumari, W/o Sh. Sanjay Kumar, Vill.-Anantpur, P.O. Madhopur P.S.Chandi (Nalanda) 803 108
Zone 4	Sh. Sethpal Singh Vill.-Nandifiorjpur, Post-Nandifirojpur District-Saharanpur (Uttar Pradesh)
Zone 7	Sh Subrat Ranjan Prusti Nalini, 3/A, Budheswari Area Bhubaneswar (Odisha) 751 006
Zone 8	Sh Prakash K.S. Sharanappa N, Kuremaganahalli, Chatnahalli (Post), Harapanahalli (Tq), District Davanagere (Karnataka) 583 125
N.G. Ranga Farmer Award for Diversified Agriculture 2014	Shri Gurpreet Singh Shergill Village Majhal Khurd, P.O.-Panjola, Dist.- Patiala, Punjab
Dr Rajendra Prasad Puruskar for technical books in Hindi in Agricultural and Allied Sciences 2014	Crop and Horticultural Sciences D. R. Bhardwaj, Indian Institute of Vegetable Research, P.B. No.1, Varanasi (Uttar Pradesh) 221 005
	NRM and Agricultural Engineering Dr Shiv Prasad Indian Agricultural Research Institute New Delhi 110 012
	Aarti Bhatia (Associate) Indian Agricultural Research Institute New Delhi 110 012
	Nivita Jain (Associate) Indian Agricultural Research Institute New Delhi 110 012
Swami Sahajanand Saraswati Outstanding Extension Scientist Award 2014	Dr Rakesh Kumar Yadav Subject Matter Specialist (PP) RajmataVijayaraje Scindia Krishi Vishwa Vidhyalaya Krishi Vigyan Kendra, Jhabua (Madhya Pradesh)
	Dr S.K. Meti Professor and Head Department of Agricultural Extension University of Agricultural Sciences Raichur (Karnataka) 580 002
Best Krishi Vigyan Kendra Awards 2014 (National & Zonal) National	Krishi Vigyan Kendra, Hadonahalli Thubagere Hobli, Doddaballapura Taluk Bangalore Rural District Karnataka-561205
Zone I	Krishi Vigyan Kendra, Kulluat Bajaura Dist.Kullu (Himachal Pradesh) 751251
Zone II	Krishi Vigyan Kendra, Saran, Manjhi, PO-Manjhi, District-Saran (Bihar) 841 313



AWARDS	AWARDEES
Zone III	Krishi Vigyan Kendra, Nalbari, P.O. Milanpur Nalbari (Asom) 781337
Zone IV	Krishi Vigyan Kendra, Sargatia Seorahi, Kushinagar-274406,Uttar Pradesh
Zone V	Krishi Vigyan Kendra, Yagantipalle Village, Banaganapallemandal Kurnool district (Andhra Pradesh)
Zone VII	Krishi Vigyan Kendra, Surguja, Ajirma, Post-Raghwapuri, Tehsil-Ambikapur, Dist. Surguja (Chhattisgarh)
Zone VIII	Krishi Vigyan Kendra, Palakkad, Mele Pattambi(PO), Palakkad District (Kerala) 679 306
Vasant Rao Naik Award for Research Application in Agriculture 2014	Dr B.K. Ramachandrappa Chief Scientist, AICRP for Dryland Agriculture University of Agricultural Sciences GKVK Campus Bengaluru (Karnataka) 560 065 Dr M.A. Shankar (Associate) AICRP for Dryland Agriculture University of Agricultural Sciences GKVK Campus Bengaluru (Karnataka) 560 065 Dr M.N. Thimmegowda (Associate) AICRP for Dryland Agriculture University of Agricultural Sciences GKVK Campus Bengaluru (Karnataka) 560 065 Dr A. Sathish (Associate) AICRP for Dryland Agriculture University of Agricultural Sciences GKVK Campus Bengaluru (Karnataka) 560 065 Mr B.N. Jagadeesh (Associate) AICRP for Dryland Agriculture University of Agricultural Sciences GKVK Campus Bengaluru (Karnataka) 560 065 Dr Ch. Srinivasa Rao (Associate) Director Central Research Institute for Dryland Agriculture Santoshnagar, Saidabad P.O. Hyderabad (Andhra Pradesh) 500059
NASI-ICAR Award 2014	Dr Ravindra Naik Senior Scientist Central Institute of Agricultural Engineering Industrial Extension Project Centre Coimbatore (Tamil Nadu) 641 003
Hari Om Ashram Trust Award 2012-13	Crop and Horticultural Sciences Dr Amaresh Chandra Principal Scientist& Head Indian Institute of Sugarcane Research Lucknow (Uttar Pradesh) 226 002 Dr Radha Jain(Associate) Principal Scientist Indian Institute of Sugarcane Research Lucknow (Uttar Pradesh) 226 002 Dr S. Solomon (Associate) Director, Division of Plant Physiology and Biochemistry, Indian Institute of Sugarcane Research Lucknow (Uttar Pradesh) 226 002



AWARDS	AWARDEES
	Natural Resource Management and Agricultural Engineering Dr Ch. Srinivasa Rao Director Central Research Institute for Dryland Agriculture Santoshnagar, Saidabad P.O. Hyderabad (Andhra Pradesh) 500059 Dr B. Venkateswarlu (Associate) Vice Chancellor Vasanthrao Naik Marathwada Krishi Vidyapeeth Parbhani (Maharashtra) 431 402 Animal and Fisheries Sciences Dr Jashbhai Bhikhabhai Prajapati, Professor & Head, Department of Dairy Microbiology SMC College of Dairy Science Anand Agricultural University Anand (Gujarat) 388110
Chaudhary Charan Singh Award 2014	Sh. Arvind Kumar Singh Assistant Editor, Rajya Sabha Television- Electronic Shri Surendra Prasad Singh Deputy Bureau Chief, National Bureau, <i>Dainik Jagran</i>, New Delhi - Print Media Sh. Arvind Kumar Singh Principal Correspondent, <i>Hindustan</i>, HT-Group, 18-0, K.G. Marg, New Delhi- For Hindi Journalism -Print Media Smt. Gargi Parsai Associate Editor, <i>The Hindu</i>, New Delhi, G-5 Press Apartments, 23 IP Extension, Delhi- For English Journalism - Print Media Smt. Madhvi Sally Special Correspondent, <i>The Economic Times</i>, New Delhi, K-6, Fine Home Apartments, Beside Supreme Enclave, Mayur Vihar Phase I, New Delhi- For English Journalism-Print Media Shri Jai Prakash Singh Senior Producer Annadata, ETV Network, 1st Floor, SP-3 Building, Romoji Film City, Hyderabad (Andhra Pradesh) 501512-Electronic Media
Awards for best workers of the ICAR Administrative category	Sh. Avinash Kalanke Upper Division Clerk Directorate of Soybean Research Khandwa Road, Indore (Madhya Pradesh) 452 001 Smt. Lizette Noronha Private Secretary, Central Coastal Agricultural Research Institute, Ela, Old Goa, Goa-403402 Sh. Brishketu Singh Assistant, National Institute of High security Animal Disease, (OIE Reference Lab for avian Influenza), Anand Nagar, Kolkata Road, Bhopal Madhya Pradesh 462 021 Smt. Suman Khanna Stereographer (Hindi + English), Indian Agricultural Statistical Research Institute, Library Avenue, Pusa, New Delhi



AWARDS	AWARDEES
	Shri Ravi Prakash Under Secretary (Protocol) ICAR Hqrs., Krishi Bhawan, New Delhi Shri Chiranje Lal Assistant and Confidential Assistant to Director, National Dairy Research Institute, Deemed University, Karnal , Haryana 132001
Technical category	Dr Randhir Singh Chief Technical Officer, Central Soil Salinity Research Institute Zarifa Farm, Kachhwa Road Karnal, Haryana 132 001 Shri Harish Chandra Yadav Senior Technical Officer, Indian Veterinary Research Institute, Izatnagar-243122, Uttar Pradesh
Supporting category	Shri Trilok Singh Balmiki Skilled Supporting Staff, National Research Centre for Orchids, Pakyong-737106, Sikkim Shri Manak Lal Kiradu Skilled Supporting Staff, NRC on Camel, Post Bag No. 7, Jorbeer, Bikaner-334001, Rajasthan Shri P. Chidambaram Skilled Supporting Staff, Central Institute for Cotton Research R.S. Coimbatore Shri Anga Dhanaraju Skilled Supporting Staff, Indian Institute of Oil Palm research Pedavegi-534450, West Godavari Dist. (Andhra Pradesh) Sh. Rampal Saini Skilled Supporting Staff, Dairy Technology Division, National Dairy Research Institute Karnal-132001, Haryana Sh. Prahlad Singh Skilled Supporting Staff, Directorate of Soyabean Research, Khandwa Road, Indore-452001, Madhya Pradesh

APPENDIX 12

RESULTS-FRAMEWORK DOCUMENT FOR DEPARTMENT OF AGRICULTURAL RESEARCH AND EDUCATION (2014-2015)



RFD
Results-Framework Document
for
Department of Agricultural Research and Education
(2014-2015)

Section 1
Vision, Mission, Functions and Objectives

Vision

Harnessing science and technology to ensure sustained accessibility to food, nutrition, livelihood security and natural resource management.

Mission

Interfacing agricultural research and technology, higher education and front-line extension initiatives with institutional, infrastructural and policy support for sustainable growth of agriculture.

Functions

- 1 To develop Public-Private-Partnerships in developing seeds, planting materials, vaccines, feed formulations, value added products, agricultural machinery etc.
- 2 To serve as a repository in agriculture sector and develop linkages with national and international organizations as per the needs and current trends.
- 3 To plan, coordinate and monitor research for enhancing production and productivity of agriculture sector.
- 4 To enhance quality of higher education in agriculture sector.
- 5 Technology generation, commercialization and transfer to end users.
- 6 Human resource development and capacity building.

Objectives

- 1 Utilizing frontier research in identified areas/programs for improved harnessing of genetic resources and biotechnology usage for agriculture and development of plant varieties.
- 2 Development and strengthening of higher agricultural education.
- 3 Improving natural resource management and input use efficiency.
- 4 Frontline agricultural extension through technology assessment and demonstration.
- 5 Farm mechanization, post-harvest management and value addition.
- 6 Assessment and monitoring of fishery resources.
- 7 Knowledge management in agriculture.
- 8 IP management and commercialization of technologies.
- 9 To develop and sustain excellence in basic and strategic research for providing knowledge support in the NARS for technology solution.
 - * Efficient Functioning of the RFD System.
 - * Enhanced Transparency / Improved Service delivery of Ministry/Department.
 - * Reforming Administration.
 - * Improve compliance with the Financial Accountability Framework.



Section 2

Inter se Priorities among Key Objectives, Success indicators and Targets

Objectives	Weight	Actions	Success indicator	Unit	Weight	Target/Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[1] Utilizing frontier research in identified areas/programs for improved harnessing of genetic resources and biotechnology usage for agriculture and development of plant varieties	17	[1.1] Collection, characterization, conservation and development of genetic resources	[1.1.1] Germplasm conserved under long term storage (other crops)	Number	1.36	5500	5000	4500	4000	3500
			[1.1.2] Germplasm collected (horticultural crops)	Number	1.36	460	400	340	280	220
			[1.2.1] Germplasm / breeding lines evaluated	Number	1.36	39000	37000	35000	33000	31000
	[1.2]	Evaluation of genetic resources / improved varieties for suitable crop husbandry practices	[1.3.1] Varieties identified by AICRP Varietal Identification Committees (food, fodder and cash crops)	Number	1.36	50	45	40	35	30
			[1.3.2] Varieties identified by AICRP Varietal Identification Committees (oilseeds & pulses)	Number	1.36	19	17	15	13	11
			[1.3.3] Varieties identified by AICRP Varietal Identification Committees (fruits, vegetables, flowers and spices)	Number	1.36	22	20	18	16	14
	[1.4]	Production of breeder seed, other seeds and planting materials	[1.4.1] Quantity of breeder seed produced (other crops)	Quintals	1.7	90000	85000	80000	75000	70000
			[1.4.2] Quantity of breeder seed produced (horticultural crops)	Quintals	1.19	36750	36250	35750	35250	34750
			[1.4.3] Planting materials produced annually	Number (in lakhs)	1.19	41	39	37	35	33

Objectives	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
2 Development and strengthening of higher agricultural education	[1.5]	Cloning and characterization of genes	[1.5.1]	Number	1.19	15	12	9	6	3
			[1.6.1]			5	4	3	2	1
	[1.6]	Identification of genetic markers and production of diagnostic kits for livestock and poultry diseases diagnosis, adulterants and environmental pollutants		Number	1.19					
	[1.7]	Production of piglets (8-12 weeks of age)	[1.7.1]	Number	1.19	3000	2800	2600	2400	2200
	[1.8]	Production of day old as well as 6 weeks old chicks	[1.8.1]	Number (in lakhs)	1.19	6.4	6.2	6	5.8	5.6
	[2.1]	Accreditation / Extension of accreditation of agricultural universities	[2.1.1]	Number	1.70	8	7	6	5	4
	[2.2]	Grant of ICAR International fellowships to Indian and foreign students	[2.2.1]	Number	2.55	15	14	13	12	11
	[2.3]	Grant of JRF and SRF to students	[2.3.1]	Number	3.40	665	645	625	605	585
	[2.4]	Supporting experiential learning units	[2.4.1]	Number	1.70	25	23	21	19	17
	[2.5]	Release of funds	[2.5.1]	Percent	3.40	100	90	80	70	60

Objectives	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
3 Improving natural resource management and input use efficiency	16	[2.6] Capacity building and faculty up-gradation	[2.6.1] Faculty trained	Number	2.55	1950	1900	1850	1800	1750
		[2.7] Creation / continuation of the centres under Niche Area of Excellence (NAE)	[2.7.1] Continued support for the existing centres and establishment of new centres of NAE	Number	1.70	27	25	23	21	19
		[3.1] Soil resource characterization and mapping	[3.1.1] Soil resource maps including thematic maps developed at different scales	Number	2.40	20	18	16	14	12
		[3.2] Integrated nutrient management (INM)	[3.2.1] Technologies for improving soil health and nutrient use efficiencies	Number	2.72	8	7	6	5	4
			[3.2.2] Developing INM packages for different agro-eco regions of the country	Number	2.72	10	9	8	7	6
		[3.3] Integrated water management (IWM)	[3.3.1] Technologies for enhancing water / irrigation use efficiencies	Number	1.76	5	4	3	2	1
			[3.3.2] Technologies for water harvesting storage and groundwater recharge	Number	1.76	4	3	2	1	0
		[3.4] Climate resilient agriculture	[3.4.1] Development/identification of varieties/breeds for climate resilience at different locations	Number	2.40	10	9	8	7	6
			[3.4.2] Programs organized for developing trained manpower in research and technology dissemination	Number	1.12	30	25	20	15	10
			[3.4.3] Awareness building on climate change in agriculture, horticulture, livestock, fisheries etc. amongst stake holders through trainings / demonstrations	Number	1.12	110	100	90	80	70
4 Frontline agricultural extension through technology assessment and demonstration	9	[4.1] Capacity building for technology application	[4.1.1] On-farm trials and frontline demonstrations conducted by KVKs	Number	4.5	110000	100000	90000	80000	70000

Objectives	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value					
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%	
5 Farm mechanization, post-harvest management and value addition	6	[5.1]	[4.1.2]	Farmers, farm women, rural youth and extension personnel trained by KVKS	Number (in lakhs)	4.50	14	13.5	13	12.5	12
			[5.1.1]	Equipment developed/refined	Number	1.50	22	21	20	19	18
		[5.2]	Testing of commercial prototypes / technologies	Commercial test reports	Number	1.50	16	15	14	13	12
		[5.3]	Process protocols for product development, storage, safety and improved quality	Process protocols developed	Number	1.50	16	14	12	10	8
6 Assessment and monitoring of fishery resources	5	[5.4]	[5.4.1]	Value-added products	Number	1.50	18	17	16	15	14
		[6.1]	Fish resources assessment and eco-system monitoring	Number of explorations/surveys carried out	Number	5.00	125	120	115	110	105
7 Knowledge management in agriculture	5	[7.1]	[7.1.1]	Print and electronic publication / products brought out	Number	5.00	252	245	238	231	224
8 IP management and commercialization of technologies	5	[8.1]	[8.1.1]	Applications filed	Number	2.50	90	80	70	60	50
		[8.2]	Partnership development including licensing of ICAR technologies	Partners identified	Number	2.50	140	130	120	110	100
9 To develop and sustain excellence in basic and strategic research for providing knowledge support in the NARS for technology solution	5	[9.1]	[9.1.1]	Success rate of concept notes submitted	Percent	1.25	12	10	8	6	4
			[9.1.2]	Success rate of full proposals finally selected	Percent	1.25	80	70	60	50	40

Objectives	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
* Efficient Functioning of the RFD System	3	[9.2] Partnership development	[9.2.1] Number of non-NARS partners participating in concept note submission	Number	1.25	140	130	120	110	100
		[9.3] Outcome of research done in the projects	[9.3.1] Technologies / methodologies developed	Number	1.25	5	4	3	2	1
		Timely submission of Draft RFD for 2015-2016 for Approval	On-time submission	Date	2.00	5/3/ 2015	6/3/ 2015	9/3/ 2015	10/3/ 2015	11/3/ 2015
* Enhanced Transparency / Improved Service delivery of Ministry/Department	3	Timely submission of Results for 2013-2014	On-time submission	Date	1.00	1/5/ 2014	2/5/ 2014	3/5/ 2014	6/5/ 2014	7/5/ 2014
		Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%	2.00	100	95	90	85	80
		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%	1.00	100	95	90	85	80
* Reforming Administration	8	Update departmental strategy to align with revised priorities	Date	Date	2.00	1/11/ 2014	2/11/ 2014	3/11/ 2014	4/11/ 2014	5/11/ 2014
		Implement agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC)	% of Implementation	%	1.00	100	90	80	70	60
		Implement agreed milestones for implementation of ISO 9001	% of implementation	%	2.00	100	95	90	85	80
		% of Responsibility Centres with RFD in RFMS	Responsibility Centres covered	%	1.00	100	95	90	85	80
		Implement agreed milestones of approved Innovation Action Plans (IAPs)	% of implementation	%	2.00	100	90	80	70	60

Objectives	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
* Improve compliance with the Financial Accountability Framework	1	Timely submission of ATNs on Audit paras of C&AG	Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year.	%	0.25	100	90	80	70	60
		Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRs submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year.	%	0.25	100	90	80	70	60
		Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2014.	Percentage of outstanding ATNs disposed off during the year.	%	0.25	100	90	80	70	60
		Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2014	Percentage of outstanding ATRs disposed off during the year.	%	0.25	100	90	80	70	60

Section 3

Trend Values of the Success Indicators

Objectives	Weight	Action	Success Indicators	Unit	Actual value for FY 12/13	Actual value for FY 13/14	Target value for FY 14/15	Projected value for FY 15/16	Projected value for FY 16/17
1 Utilizing frontier research in identified areas/programs for improved harnessing of genetic resources and biotechnology usage for agriculture and development of plant varieties	17	[1.1]	Collection, characterization, conservation and development of genetic resources	Number	3909	5000	5000	5000	5000
			[1.1.1] Germplasm conserved under long term storage (other crops)						
			[1.1.2] Germplasm collected (horticultural crops)	Number	315	400	400	405	410
		[1.2]	Evaluation of genetic resources / improved varieties for suitable crop husbandry practices	Number	2500	35000	37000	37000	37000
		[1.3]	Development of improved varieties suited to diverse agro-ecologies	Number	0	35	45	45	45
			[1.3.1] Varieties identified by AICRP Varietal Identification Committees (food, fodder and cash crops)						
			[1.3.2] Varieties identified by AICRP Varietal Identification Committees (oilseeds & pulses)	Number	0	15	17	17	17
			[1.3.3] Varieties identified by AICRP Varietal Identification Committees (fruits, vegetables, flowers and spices)	Number	18	18	20	21	22
		[1.4]	Production of breeder seed, other seeds and planting materials	Quintals	99270	85000	85000	85000	85000
			[1.4.1] Quantity of breeder seed produced (other crops)						
			[1.4.2] Quantity of breeder seed produced	Quintals	36000	36000	36250	36500	36750

Objective	Weight	Action	Success indicator	Unit	Actual value for FY 12/13	Actual value for FY 13/14	Target value for FY 14/15	Projected value for FY 15/16	Projected value for FY 16/17		
2 Development and strengthening of higher agricultural education			(horticultural crops)								
			[1.4.3]	Planting materials produced annually	Number (in lakhs)	40.5	41	39	39.1	39.2	
	[1.5]	Cloning and characterization of genes	[1.5.1]	Genes cloned and characterized	Number	5	13	12	12	14	
	[1.6]	Identification of genetic markers and production of diagnostic kits for livestock and poultry diseases diagnosis, adulterants and environmental pollutants	[1.6.1]	Genetic markers identified and diagnostics kits developed	Number	0	0	4	4	5	
	[1.7]	Production of piglets (8-12 weeks of age)	[1.7.1]	Provisioning of piglets to farmers and development agencies	Number	2779	1950	2800	3300	3800	
	[1.8]	Production of day old as well as 6 weeks old chicks	[1.8.1]	Provisioning of day old / 6 weeks old chicks to farmers and development agencies	Number (in lakhs)	6.17	6.5	6.2	6.4	6.6	
	17	[2.1]	Accreditation / Extension of accreditation of agricultural universities	[2.1.1]	Universities granted accreditation/extension of accreditation	Number	7	6	7	8	8
	[2.2]	Grant of ICAR International fellowships to Indian and foreign students	[2.2.1]	Fellowships awarded (subject to availability of competent candidates)	Number	14	14	14	14	14	
	[2.3]	Grant of JRF and SRF to students	[2.3.1]	Fellowships granted every year (subject to availability of competent candidates)	Number	658	640	645	650	655	
	[2.4]	Supporting experiential learning units	[2.4.1]	Establishment of experiential learning units	Number	25	21	23	30	32	

Objective	Weight	Action	Success indicator	Unit	Actual value for FY 12/13	Actual value for FY 13/14	Target value for FY 14/15	Projected value for FY 15/16	Projected value for FY 16/17
3 Improving natural resource management and input use efficiency	16	[2.5] Release of funds	[2.5.1] Amount released as per allocation	Percent	0	0	90	90	90
		[2.6] Capacity building and faculty up-gradation	[2.6.1] Faculty trained	Number	958	1850	1900	1950	2000
		[2.7] Creation/continuation of the centres under Niche Area of Excellence (NAE)	[2.7.1] Continued support for the existing centres and establishment of new centres of NAE	Number	22	22	25	28	30
	16	[3.1] Soil resource characterization and mapping	[3.1.1] Soil resource maps including thematic maps developed at different scales	Number	0	19	18	19	20
		[3.2] Integrated nutrient management (INM)	[3.2.1] Technologies for improving soil health and nutrient use efficiencies	Number	4	8	7	8	8
			[3.2.2] Developing INM packages for different agro-eco regions of the country	Number	9	14	9	9	9
	16	[3.3] Integrated water management (IWM)	[3.3.1] Technologies for enhancing water / irrigation use efficiencies	Number	5	3	4	5	5
			[3.3.2] Technologies for water harvesting storage and groundwater recharge	Number	8	3	3	4	4
		[3.4] Climate resilient agriculture	[3.4.1] Development/identification of varieties/breeds for climate resilience at different locations	Number	11	9	9	10	10
			[3.4.2] Programs organized for developing trained manpower in research and technology dissemination	Number	0	25	25	27	30
			[3.4.3] Awareness building on	Number	150	120	100	105	110

Objective	Weight	Action	Success indicator	Unit	Actual value FY 12/13	Actual value FY 13/14	Target value FY 14/15	Projected value FY 15/16	Projected value FY 16/17
4	9	[4.1] Frontline agricultural extension through technology assessment and demonstration	[4.1.1] Capacity building for technology application [4.1.2] On-farm trials and frontline demonstrations conducted by KVKs [4.1.2] Farmers, farm women, rural youth and extension personnel trained by KVKs	Number	0	0	100000	110000	115000
5	6	[5.1] Farm mechanization, post-harvest management and value addition	[5.1.1] To develop / refine equipments for crop production and processing [5.2] Testing of commercial prototypes / technologies [5.3] Process protocols for product development, storage, safety and improved quality [5.4] Development / refinement of agro-products	Number	19	21	21	22	22
6	5	[6.1] Assessment and monitoring of fishery resources	[6.1.1] Fish resources assessment and eco-system monitoring [6.1.1] Number of explorations/ surveys carried out	Number	12	12	15	16	16
7	5	[7.1] Knowledge management in agriculture	[7.1.1] Dissemination of knowledge through print / electronic mode [7.1.1] Print and electronic publication / products brought out	Number	12	12	14	15	15
8	5	[8.1] IP management and commercialization of technologies	[8.1.1] Patents and other IPR titles [8.2] Partnership development including licensing of ICAR technologies	Number	105	107	80	90	100
			[8.2.1] Partners identified	Number	163	150	130	140	150

climate change in agriculture, horticulture, livestock, fisheries etc. amongst stake holders through trainings / demonstrations

Objective	Weight	Action	Success indicator	Unit	Actual value for FY 12/13	Actual value for FY 13/14	Target value for FY 14/15	Projected value for FY 15/16	Projected value for FY 16/17
9 To develop and sustain excellence in basic and strategic research for providing knowledge support in the NARS for technology solution	5	[9.1] To create awareness of the need and nature of basic / strategic research in agriculture	[9.1.1] Success rate of concept notes submitted	Percent	10	18	10	12	13
			[9.1.2] Success rate of full proposals finally selected	Percent	80	67	70	72	75
		[9.2] Partnership development	[9.2.1] Number of non-NARS partners participating in concept note submission	Number	132	0	130	135	140
		[9.3] Outcome of research done in the projects	[9.3.1] Technologies/methodologies developed	Number	0	4	4	5	6
* Efficient Functioning of the RFD System	3	Timely submission of Draft RFD for 2015-2016 for Approval	On-time submission	Date			6/3/2015		
		Timely submission of Results for 2013-2014	On-time submission	Date			2/5/2014		
* Enhanced Transparency/Improved Service delivery of Ministry/Department	3	Rating from Independent Audit of implementation of Citizens' / Clients' Charter (CCC)	Degree of implementation of commitments in CCC	%			95		
		Independent Audit of implementation of Grievance Redress Management (GRM) system	Degree of success in implementing GRM	%			95		
* Reforming Administration	8	Update departmental strategy to align with revised priorities	Date	Date			2/11/2014		
		Implement agreed milestones of approved Mitigating Strategies for Reduction of potential risk of corruption (MSC).	% of Implementation	%			90		
		Implement agreed milestones for implementation of ISO 9001	% of implementation	%			95		

Objective	Weight	Action	Success indicator	Unit	Actual value for FY 12/13	Actual value for FY 13/14	Target value for FY 14/15	Projected value for FY 15/16	Projected value for FY 16/17
* Improve compliance with the Financial Accountability Framework	1	% of Responsibility Centres with RFD in RFMS	Responsibility Centres covered	%			95		
		Implement agreed milestones of approved Innovation Action Plans (IAPs).	% of implementation	%			90		
		Timely submission of ATNs on Audit paras of C&AG	Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year.	%			90		
		Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year.	%			90		
		Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2014.	Percentage of outstanding ATNs disposed off during the year.	%			90		
		Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2014	Percentage of outstanding ATRS disposed off during the year.	%			90		

Section 4: Acronyms

AICRP	All India Coordinated Research Project	IPNS	Integrated Plant Nutrient Supply Systems
APEDA	Agricultural and Processed food Products Export Development Authority	IPR	Intellectual Property Rights
AUs	Agricultural Universities	IWM	Integrated Water Management
BIS	Bureau of Indian Standards	JRF	Junior Research Fellow
DADF	Department of Animal Husbandry, Dairying and Fisheries	KVK	Krishi Vigyan Kendra
DBT	Department of Bio Technology	MoRD	Ministry of Rural Development
DKMA	Directorate of Knowledge Management in Agriculture	MoWR	Ministry of Water Resources
DNA	Deoxyribonucleic Acid	NAE	Niche Area of Excellence
DoAC	Department of Agriculture and Cooperation	NARS	National Agricultural Research System
DST	Department of Science and Technology	NFBSFARA	National Fund for Basic, Strategic and Frontier Application Research in Agriculture
DU	Deemed to be University	NGO	Non-Governmental Organization
e-Resources	Electronic Resources	NHB	National Horticulture Board
FACE	Free Air Carbon-dioxide Enrichment	NHM	National Horticulture Mission
FATE	Free Air Temperature Enrichment	OFT	On-Farm Trials
FLD	Front line Demonstrations	PGs	Post Graduates
ICAR	Indian Council of Agricultural Research	R and D	Research and Development
ICMR	Indian Council of Medical Research	SAUs	State Agricultural Universities
ICT	Information and Communication Technology	SNP	Single Nucleotide Polymorphism
INM	Integrated Nutrient Management	SRF	Senior Research Fellow
IP	Intellectual Property	SVUs	State Veterinary Universities
		UG	Under Graduate

Description and Definition of Success Indicators and Proposed Measurement Methodology

S. No.	Success indicator	Description	Definition	Measurement	General Comments
1	[1.1.1] Germplasm conserved under long term storage (other crops)	Diverse germplasm is the basic requirement to bred new improved varieties.	Basic genetic resource for crop improvement.	Number of Germplasm/ lines conserved.	May not increase with every passing year.
2	[1.1.2] Germplasm collected (horticultural crops)	Germplasms are genetic resources of horticultural crops which are source for genetic variability.	Germplasm is collection of cultivars, landraces, wild species etc. for conservation and utilization.	Number	Germplasm material serve as base for utilization in crop improvement programs for breeding new varieties.
3	[1.2.1] Germplasm / breeding lines evaluated	Source material for the improved varieties to be evaluated.	Material generated from the basic germplasm.	Number of breeding lines evaluated	May not increase with every passing year.
4	[1.3.1] Varieties identified by AICRP Varietal Identification Committees (food, fodder and cash crops)	Breeding lines are evaluated along with checks in multilocation trials through All India Coordinated Research Projects of crops (other than oil seeds & pulses) and the best performing	Best performing entries identified as a new variety for release.	Number of such varieties identified	Targets for varieties identified given in Section 2 and their respective trend values in Section 3 may vary as the identification of varieties depend upon the availability of superior material with

S. No.	Success indicator	Description	Definition	Measurement	General Comments
		entries compared to checks are identified as new improved varieties for release.			respect to yield, quality, resistance/ tolerance to biotic and abiotic stresses over the existing varieties.
5	[1.3.2] Varieties identified by AICRP Varietal Identification Committees (oilseeds & pulses)	Breeding lines are evaluated along with checks in multilocation trials through All India Coordinated Research Projects related to oil seeds and pulses and the best performing entries compared to checks are identified as new improved varieties for release.	Best performing entries identified as a new variety for release.	Number of such varieties identified	Targets for varieties identified given in Section 2 and their respective trend values in Section 3 may vary as the identification of varieties depend upon the availability of superior material with respect to yield, quality and resistance/ tolerance to biotic and abiotic stresses over the existing varieties.
6	[1.3.3] Varieties identified by AICRP Varietal Identification Committees (fruits, vegetables, flowers and spices)	Varieties/ cultivars produced by careful breeding and selection for desirable characteristics.	A variety/ cultivar is a plant or grouping of plants selected for desirable traits.	Number	Varieties are result of breeding improvements can include high yield, quality, better disease resistance, drought tolerance, fruit size, etc.
7	[1.4.1] Quantity of breeder seed produced (other crops)	Produced from nucleus seed, breeder seed is the starting point in seed chain of producing quality seeds for farmers.	Genetically pure seed produced under direct control of plant breeder and which provides the source for the initial and recurring production of foundation seed.	Quantity produced (Quintals)	Quantity may vary as per indent from DoAC.
8	[1.4.2] Quantity of breeder seed produced (horticultural crops)	Propagating material directly controlled by the originating or sponsoring plant breeder of the breeding program or institution.	Breeder seed, whose production is personally supervised by a qualified plant breeder and is source for foundation and certified seed.	Weight in Quintals	Breeder seed shall be genetically so pure as to guarantee that in the subsequent generation quality shall be maintained.



S. No.	Success indicator	Description	Definition	Measurement	General Comments
9	[1.4.3] Planting materials produced annually	Production of planting material of vegetatively propagated horticultural crops.	It is a process of vegetative means by which new individuals arise without production of seeds or spores.	Number of saplings/plants (in lakhs)	In a wide sense, planting material arise from vegetative propagation include cutting, vegetative part apomixis, layering, division, budding, grafting and tissue culture.
10	[1.5.1] Genes cloned and characterized	This is an important step in unraveling the role of individual genes.	Total No. of genes cloned and characterized.	Number	-
11	[1.6.1] Genetic markers identified and diagnostics kits developed	A genetic marker may be a short DNA sequence, such as a sequence surrounding a single base-pair change (SNP) or a long one, like microsatellites. The development of diagnostic kits involves delineation of process(es) for detection of specific diseases of livestock and poultry as well as adulterants and environmental pollutants in milk, meat, water, soil and value added products, etc.	A genetic marker is a gene or DNA sequence with a known location on a chromosome that can be used to identify individuals or species. To develop sensitive tests for detection of causative agents for specific diseases of livestock and poultry as well as adulterants and environmental pollutants in milk, meat, water, soil and value added products, etc.	Number	Genetic markers may be described as a tool to identify as a variation which may arise due to mutation or alteration in the genomic loci. Development of new diagnostics will be need based dependent on occurrence / emergence / prevalence / severity of a disease whereas kits for detection for adulterants and environmental pollutants will be to ensure quality production, procurement and value addition of animal produce / products to minimize economic losses.
12	[1.7.1] Provisioning of piglets to farmers and development agencies	The quality germplasm of piglets supplied will be raised and used by the farmers as means of nutritional security and economic returns and by the State Animal	The piglets being provisioned will serve as the basic unit (seed) for production, reproduction, maintenance and preservation.	Number	The provisioning of piglets of high reproductive efficiency (preferably with a pregnancy rate not less than 70%) of the sows (female pigs) and other inputs like



S. No.	Success indicator	Description	Definition	Measurement	General Comments
		Husbandry Departments for enhancing production/ productivity on their farms and for multiplication and production of quality germplasm.			quality management, balanced feed, health cover for optimum growth to be monitored initially weekly weights up to weaning and thereafter fortnightly monitoring of weight and growth rate till the piglets are ready for sale to farmers/ development agencies.
13	[1.8.1] Provisioning of day old / 6 weeks old chicks to farmers and development agencies	The quality germplasm of chick /fertile eggs supplied will be reared by the famers for egg/meat production for better economic returns. The chicks of parent line provisioned to government farms will serve as the replacement stock for enhancing production/ productivity and for multiplication and production of quality germplasm.	The chicks/ fertile eggs/ being provisioned will serve as the basic unit (seed) for production, reproduction, maintenance and preservation.	Number (in lakhs)	Provisioning of day old/6 weeks old chicks and hatching eggs would require production of more than 70% fertile eggs from the breeding population and thereby hatchability of 75%. The target can be successfully reached if the standard management practices, quality feeding schedule, health schedule with closed monitoring of the environment and management standards is done during the growth period of the chicks and of the parent population.
14	[2.1.1] Universities granted accreditation / extension of accreditation	Educational quality and reforms to be measured from the number of universities accredited and need based reforms undertaken.	Accreditation is periodically undertaken to ensure education quality by Accreditation Board, ICAR.	Number	
15	[2.2.1] Fellowships awarded (subject to	International fellowships to	The fellowships are awarded in	Number	

S. No.	Success indicator	Description	Definition	Measurement	General Comments
	availability of competent candidates)	both Indian and foreign students are awarded in cutting edge areas for showcasing strength of Indian agriculture.	competitive mode based on merit.	Number	
16	[2.3.1] Fellowships granted every year (subject to availability of competent candidates)	JRF/SRF fellowships are awarded for attracting and retaining talented youths towards higher agricultural education through All India Examination.	JRF/SRF (PGs) fellowships are meant for Master and Doctoral programme respectively in Agriculture and Allied Sciences in competitive mode.	Number	
17	[2.4.1] Establishment of experiential learning units	Experiential learning units are being established across AUs for providing hands on training and developing entrepreneurship skills amongst youth at UG level.	Experiential learning units are in different areas of Agriculture and Allied Sciences at college level for Under Graduate students.	Number	
18	[2.5.1] Amount released as per allocation	ICAR provides grant for development and strengthening of higher agricultural education to Agricultural Universities for the infrastructure development including students' amenities and facilities, modernization of laboratories and classrooms and to facilitate course-curriculum delivery and quality assurance with enabling environment and ICT support on yearly basis.	ICAR development grant to Agricultural Universities emphasizes quality education, its relevance and usefulness.	Percent	
19	[2.6.1] Faculty trained	Capacity building and	The training programmes	Number	

S. No.	Success indicator	Description	Definition	Measurement	General Comments
		faculty upgradation in need based areas of agriculture and allied sciences to be measured from the number of trained personnel through summer-winter schools/short courses, Centres of Advanced Faculty trainings and niche area centres.	are key to sustain quality of agricultural education through updating of knowledge and skill of faculty.		
20	[2.7.1] Continued support for the existing centres and establishment of new centres of NAE	Creation/ continuation of Niche Area of Excellence for scaling up of research capabilities of the universities and promote human resource development.	Basic elements of Niche Areas of Excellence are quality of human resource, adequate infrastructure, access to latest information and well developed educational technology system.	Number	
21	[3.1.1] Soil resource maps including thematic maps developed at different scales	Soil resource inventory & characterization is prerequisite for developing land use planning.	Soil resource maps are the record of soil units delineated on the basis of similar properties in a readable format.	Mapping will be done at different scale using geo referenced data.	This will ensure effective monitoring and judicious use of land resources.
22	[3.2.1] Technologies for improving soil health and nutrient use efficiencies	The nutrient use efficiency in the country is very low and fertilizer being a costly input, this has to be increased to reduce the use of fertilizer vis-à-vis cost of production.	Nutrient efficiency can be defined in agronomic, economic, or environmental terms with an aim to get maximum yield benefit with reduce rate of application without harming the environment.	Nutrient use efficiency is measured in terms of partial factor productivity (kg crop yield per kg nutrient applied) or agronomic efficiency (kg crop yield increase per kg nutrient applied) or apparent recovery efficiency (kg nutrient taken up per kg nutrient applied); and physiological efficiency (kg	Augmenting nutrient use efficiency will facilitate reduction in use of costly chemical fertilizer, fertilizer subsidy burden and environmental pollution. Several technological interventions like soil test based fertilizer applications, use of organics (enriched composts, efficient biofertilizer

S. No.	Success indicator	Description	Definition	Measurement	General Comments
				yield increase per kg nutrient taken up).	strains, crop residue recycling, green manuring), inclusion of legume crops, mulching, resource conservation technologies (RCTs), slow releasing fertilizers, nitrification inhibitors, fertilizer responsive cultivars, 4Rs (right dose, source, time & method of application) and nano-formulations can improve soil health vis-à-vis nutrient use efficiency to a large extent.
23	[3.2.2] Developing INM packages for different agro-eco regions of the country	INM is practiced encompassing conjunctive use of both chemical and organic nutrient sources for improving soil health & sustaining higher productivity.	Integrated Nutrient Management refers to the maintenance of soil fertility and plant nutrient supply at an optimum level for sustaining the desired productivity through optimization of the benefits from all possible sources of organic, inorganic and biological components in an integrated manner.	Developing Integrated Plant Nutrient Supply Systems (IPNS) for different crops/ croppings.	To ensure balance fertilization and sound soil health.
24	[3.3.1] Technologies for enhancing water / irrigation use efficiencies	Improving irrigation/water use efficiency is aimed to save water for bringing more area under irrigation.	Irrigation efficiency is the index of irrigation performance while water use efficiency is defined as yield/unit of crop water use.	To be measured in terms of irrigation water use and evapo-transpiration.	This will increase the crop water productivity. Several technological interventions like water conservation measures, conjunctive use of surface and ground water, multiple use of water, efficient micro-irrigation techniques,

S. No.	Success indicator	Description	Definition	Measurement	General Comments
					land configuration, irrigation scheduling, improved delivery system including nano techniques, mulching, resource conservation technologies, crop diversification and developing/ identifying cultivars requiring less water can improve water and irrigation use efficiency to a considerable extent.
25	[3.3.2] Technologies for water harvesting storage and groundwater recharge	Harvested rainwater is harvested through bio engineering measures and used for augmenting ground water level.	Groundwater recharge is a hydrologic process where water moves downward from surface water to groundwater.	Groundwater recharge measurement will be studied through development of location specific filter systems.	Groundwater recharge technique shall help in minimizing surface runoff and augmenting groundwater table.
26	[3.4.1] Development/ identification of varieties/breeds for climate resilience at different locations	State of art facilities like phenomics, FACE and FATE and other advanced techniques will be employed in identifying the germplasm tolerant to biotic and abiotic stresses. Similar efforts will be made in case of livestock and fisheries for identifying breeds/species tolerant to various stresses.	Germplasm/ varieties/ livestock breeds/fisheries species that can tolerate biotic and abiotic stresses.	Number of germplasm/ varieties/ livestock breeds/ fisheries species	Increased frequency of occurrence of weather aberrations have necessitated the need for identifying tolerant germplasm/ varieties/ livestock breeds/fisheries species.
27	[3.4.2] Programs organized for developing trained manpower in research and technology dissemination	Staff of NARS and NGOs will be exposed to state-of-art facilities/ techniques/ tools developed within the country/abroad for pursuing	Enhancing the knowledge of scientists and officials in understanding climatic variability and coping strategies.	Number of training programmes	Human capital development in coping with changing climatic scenario.

S. No.	Success indicator	Description	Definition	Measurement	General Comments
		advance research and technology dissemination.			
28	[3.4.3] Awareness building on climate change in agriculture, horticulture, livestock, fisheries etc. amongst stakeholders through trainings / demonstrations	The knowledge and skills of primary and secondary stakeholders shall be enhanced by organizing exposure visits to on-farm trials/ demonstrations conducted by SAUs and KVKs.	Exposure to advanced techniques in understanding and managing climatic risks.	Number of programmes	Skill enhancement of primary and secondary stakeholders.
29	[4.1.1] On-farm trials and frontline demonstrations conducted by KVKs	Trials and demonstrations conducted for technology testing and proving the technology potential production	On-farm trials aims at testing new technologies under farmers condition and management, by using farmers own practice as control. Frontline demonstration is the field demonstration conducted on farmers field under the close supervision of Scientists.	Number	
30	[4.1.2] Farmers, farm women, rural youth and extension personnel trained by KVKs	Capacity building activities related to knowledge and skill improvement/ development programmes conducted for farmers, farm women, rural youth and extension personnel.	Training is a process of acquisition of new skills, attitude and knowledge in the context of preparing for entry into a vocation or improving once productivity in an organization or enterprise.	Number	
31	[5.1.1] Equipment developed / refined	Development of need based farm equipment.	R and D work on farm mechanization.	Number of equipment developed	
32	[5.2.1] Commercial test reports	Type of Machinery	Equipment or products for testing	Number of reports as per BIS standards	
33	[5.3.1] Process protocols developed	Methodology to carry out a process	Development of methods to complete a process	Acceptable standard of process	

S. No.	Success indicator	Description	Definition	Measurement	General Comments
34	[5.4.1] Value-added products	Development of new products from the raw agro-produces	Development of different products from agro-produce	End-product	
35	[6.1.1] Number of explorations / surveys carried out	Explorations/ surveys are carried out to identify new fishery resources and locating potential fishing zones.	Newer fishery resources and potential fishing areas identified.	Number	
36	[7.1.1] Print and electronic publication / products brought out	Dissemination of knowledge products like knowledge books, periodicals, journals etc. published through print, electronic mode etc.	Print publications are carriers of knowledge to masses including students, scientists, researchers, policy makers, farmers etc. e-Resources are computer readable products for transfer of knowledge to the target user groups in agricultural and allied sciences.	Number	
37	[8.1.1] Applications filed	Filing of Patents and other IPR titles for protection of IP.	Protection of IPs in the form of Patents and other IPR titles.	Number	
38	[8.2.1] Partners identified	With respect to commercialization of technologies and services for promoting partnerships with both public and private sector agencies, it is envisaged to bring commercial ethos in agricultural research system. The increasing numbers of partnerships over the years points towards emphasis on transfer of knowledge, skills and technologies, thereby contributing to improved socioeconomic impact from contribution of ICAR.	Partnership development includes licensing of ICAR's technologies and/ or services.	Number	
39	[9.1.1] Success rate of concept notes submitted	By creating awareness through workshops, it is expected that the		Number of concept notes received	

S. No.	Success indicator	Description	Definition	Measurement	General Comments
40	[9.1.2]	Success rate of full proposals finally selected	participants of workshop & through then their colleague will be encouraged to submit more meaningful research concepts which will lead to increase in % of submitted concept notes that are selected for full project development. Based on the selected concept notes full proposal are developed. The proponents are actually helped by NFBSFARA in full proposal developments. Thus, the % reflects the success of efforts of NFBSFARA & the awareness of the proponents.	Percent	
41	[9.2.1]	Number of non-NARS partners participating in concept note submission	One of the main aims of the NFBSFARA is to bring in all expertise in NARS & non-NARS institutions in the country that can contribute to agricultural research. The number of non-NARS scientists getting interested in contributing to agricultural research will be a strong measure of fulfillment of that aim.	Number	
42	[9.3.1]	Technologies / methodologies developed	Certain ideas & technologies may be directly developed from the project which is reflected in patents filed & usable technology & methodology developed.	Number	

Section 5

Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met
Central Government		Departments	Department of Agriculture and Cooperation	[1.4.1]	Quantity of breeder seed produced (other crops)	Variety wise indent for breeder seed comes from DoAC	Quantity of breeder seed is produced as per indent received from DoAC	Less or more quantity of breeder seed will be produced as per indent received from DoAC
State Government	All States	Others	Others	[1.6.1]	Genetic markers identified and diagnostics kits developed	For up-scaling and monitoring, support for development of new diagnostics and their validation under field conditions and improvisation	Monitoring and surveillance of livestock and poultry disease and quality assurance of animal produce / products thereby reducing economic losses	Cannot be quantified
			Others	[1.7.1]	Provisioning of piglets to farmers and development agencies	Requisition for pig seed	Variety-wise indent for pig seed	Does not affect as the activities of the Division are basically research oriented and production and supply is demand driven based on the management / production capacities of the indenters. However, in case of disease outbreak (e.g. Swine fever), the activity is likely to be affected

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met
			Others	[1.8.1] Provisioning of day old / 6 weeks old chicks to farmers and development agencies	Requisition for poultry seed	Variety-wise indent for poultry seed	Quantity of poultry seed is produced as per the indent	Does not affect as the activities of the Division are basically research oriented and production and supply is demand driven based on the management / production capacities of the indenters. However, in case of disease outbreak (e.g. Bird flu), the activity is likely to be affected
			Others	[5.1.1] Equipment developed / refined	Financial support to disseminate the technology through Front-line demonstrations and technology transfer	Technology transfer through demonstrations in the farmers' field	Cannot be quantified as it is dependent on demand	Technology transfer will suffer
			Others	[5.2.1] Commercial test reports	Machinery/Samples for testing	Commercial testing of equipment/machinery/samples	Machinery/samples in a year	The activity will fall short of targets
			Others	[4.1.1] On-farm trials and frontline demonstrations conducted by KVKS	Technology & Methodology backstopping from SAUs & ICAR Instt., collaboration for technology dissemination and making available Technology needs & feedback.	Newly developed technologies and proven technologies needed for conducting OFT and FLD respectively are the research outcome from SAUs and ICAR Research Institutes. Continuous technology backstopping is very much essential for the KVKS to plan their on-farm trials and frontline	Continuous supply and updation of technologies. Providing information about the technology requirement and problems of the farmers. Carrying out refinement in the technologies based on the feedback and outcome of OFT & FLD trials.	The OFT and FLD activities will suffer for the want of recent technologies and innovations. The support of State Department of Agriculture, Animal Husbandry etc. for wider dissemination of technologies in the field is very much required, lack of which will constraint the up scaling process.

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met
						demonstrations. Feed back and information on technological needs help to develop need based OFT and FLDs.		
			Others	[4.1.2] Farmers, farm women, rural youth and extension personnel trained by KVKs	Availability of training methodologies and new knowledge content for training. Sponsoring of trainees and nominations of Extension personnel. Communicating the training needs. Providing the information about problem magnitude and feedback about the usefulness of the programs.	For planning and organizing the training programme, the details of training needs, the knowledge and operational skills are very much essential. SAUs & ICAR Research Instt. are the source of such knowledge content and skills which forms the course materials for the training programs.	The details of knowledge content and skills for the adoption of recommended technologies by the farmers in their fields. Active participations of farmers, extension personnel's and rural youths.	The participation of farmers, extension personnel from State Department and rural youth are very much essential for organizing the training programmes. Without adequate enrolment of the participation, training programmes can not be organized. Lack of adequate information about recent knowledge and skills required for the adoption of newly recommended technologies will constraints the designing of training programmes.
			Others	[7.1.1] Print and electronic publication / products brought out	Subscription and utilization of the various knowledge products like books, newsletter, journals by the host organizations like SAUs, KVKs, ICAR Institutes etc. Management of the subscribed knowledge products by the host organizations for their wider dissemination among their staff, students etc.	The ICAR institutes and State Agricultural Universities conduct research, teaching and capacity building activities for which updation of recent knowledge, innovations, research findings are must. These are the organization utilizes the knowledge products created by DKMA.	Subscription of the knowledge products published/brought out by the DKMA.	Unless, the SAUs and ICAR Institutes take adequate steps for subscribing and effective utilization of various knowledge products, it is not feasible to reach the users like students, researchers, academic staff, extension functionaries etc.

Section 6

Outcome/Impact of activities of department/ministry

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	Unit	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
1 Use of quality seed	DoAC	Quantity of breeder seed produced	Quintals	135270	121000	121250	121500	121750
2 Human resource development		Fellowships granted every year (subject to availability of competent candidates)	Number	658	640	645	650	655
3 Better utilization of natural resources		Faculty trained	Number	958	1850	1900	1950	2000
		Technologies developed/refined for improving soil health, nutrient use efficiencies and water productivity	Number	9	11	11	13	13
4 Farm mechanization	DoAC, Ministry of Agriculture, State Deptt. of Agriculture	Implements developed/refined	Number	19	21	21	22	22

Acronyms

ABST	: Antibiotic Sensitivity Test	ETL	: Economic Threshold Level
AcMNPV	: Autographa Californica Multiple Nucleopolyhedrovirus	EXPSS	: Expert System on Seed Spices
ADF	: Acid Detergent Fibre	FAD	: Fatty Acid Desaturase
AFC	: Age at First Calving	FAO	: Food and Agriculture Organization
AFLP	: Amplified Fragment Length Polymorphism	FCR	: Feed Conversion Rate
AGID	: Agar Gel Immunodiffusion	FEC	: Faecal Egg Count
AI	: Artificial Insemination	FMD	: Foot-and-Mouth Disease
AICRP	: All India Coordinated Research Project	FSH	: Follicle-stimulating Hormone
AINP	: All India Network Project	FYM	: Farmyard Manure
ALV	: Avian Leukosis Virus	GADVASU	: Guru Angad Dev Veterinary and Animal Sciences University
ASAM	: Alkaline Sulfite Anthraquinone Methanol	GBNV	: Groundnut Bud Necrosis Virus
ASEAN	: Association of South-East Asian Nations	GBPUAT	: Govind Ballabh Pant University of Agriculture and Technology
ASF	: African Swine Fever	GDP	: Gross Domestic Production
ASRB	: Agricultural Scientists' Recruitment Board	GEF	: Global Environmental Facility
ATIC	: Agricultural Technology Information Centre	GHG	: Greenhouse Gases
AUTM	: Association of Universities for Technology Management	GIS	: Geographical Information System
BAIF	: Bhartiya Agro-Industrial Foundation	GML	: Gramapriya Male Line
BCM	: Billion Cubic Metres	GPA	: Global Plan of Action
BHU	: Banaras Hindu University	GPS	: Global Positioning System
BOD	: Biochemical Oxygen Demand	HAPA	: Hybridization-supplemented Apomixis Components Partitioning Approach
BTV	: Blue Tongue Virus	HDPE	: High Density Polyethylene
BVDV	: Bovine Viral Diarrhoea Virus	HF	: Holstein Friesian
CAFT	: Centres of Advanced Faculty Training	HPNA	: Highly Pathogenic Notifiable Avian Influenza
CAU	: Central Agricultural University	HPTLC	: High Performance Thin Layer Chromatography
CAZRI	: Central Arid Zone Research Institute	HRR	: Head Rice Recovery
CCHF	: Crimean Congo Hemorrhagic Fever	HSP	: Heat Shock Protein
CeRA	: Consortium for e-Resources in Agriculture	IAA	: Integrated Agri-aquaculture
CFT	: Complement Fixation Test	IBR	: Infectious Bovine Rhinotracheitis
CGIAR	: Consultative Group on International Agricultural Research	ICARDA	: International Centre for Agricultural Research in Dry Areas
CIAE	: Central Institute of Agricultural Engineering	ICMV	: Indian Cassava Mosaic Virus
CIARI	: Central Island Agricultural Research Institute	ICRISAT	: International Crops Research Institute for Semi-Arid Tropics
CIBA	: Central Institute of Brackish Water Aquaculture	ICT	: Information and Communication Technologies
CIFE	: Central Institute of Fisheries Education	IFS	: Integrated Farming System
CIMMYT	: Centro Internacional de Mejoramiento de Maize Trigo	IHC	: Immuno-histochemistry
CMS	: Cytoplasmic Male Sterility	IPM	: Integrated Pest Management
CP	: Crude Protein	IPNS	: Integrated Plant Nutrient System
CPE	: Cumulative Pan Evaporation	IPR	: Intellectual Property Rights
CRRI	: Central Rice Research Institute	ITK	: Indigenous Technical Knowledge
CSEV	: Classical Swine Fever Virus	JE	: Japanese Encephalitis
CSFL	: Coloured Synthetic Female Line	JNKVV	: Jawaharlal Nehru Krishi Vishwa Vidyalaya
CSML	: Coloured Synthetic Male Line	KVAFSU	: Kerala Veterinary, Animal Sciences and Fisheries University
CPC	: Corn Protein Concentrate	KVK	: Krishi Vigyan Kendra
CSFL	: Synthetic Coloured Female Line	LDPE	: Low Density Polyethylene
CWM	: Chicken Waste Meal	LLO	: Listeriolysin-O
DAS	: Days After Sowing	LPNA	: Low Pathogenic Notifiable Avian
DAT	: Days After Transplanting	LRI	: Land Resource Inventory
DRWA	: Directorate of Research of Women in Agriculture	MAb	: Monoclonal Antibody
EEE	: Eastern Equine Encephalitis	MAS	: Molecular Marker-assisted Selection
EHV	: Equine Herpes Virus	MAT	: Macroscopic Agglutination Test
EIA	: Enzyme Immuno Assay	MoU	: Memorandum of Understanding
ELISA	: Enzyme-linked Immunosorbent Assay		
EPN	: Entomopathogenic Nematode		

MPP	: Methane Production Potential	Institute	
MPUAT	: Maharana Pratap University of Agriculture and Technology	RDF	: Recommended Dose of Fertilizers
MRSA	: Methicillin Resistant <i>Staphylococcus aureus</i>	RE	: Revised Estimate
MSCs	: Mesenchymal Stem Cells	RFD	: Results-Framework Document
MW	: Molecular Weight	RFLP	: Restricted Fragment Length Polymorphism
NABG	: National Agricultural Bioinformatics Grid	RH	: Relative Humidity
NADRES	: National Animal Disease Referral Expert System	RMP	: Research Management Positions
NAE	: Niche Area of Excellence	RNFE	: Rural non-farm Employment
NARD	: National Agricultural Research Database	RVF	: Rift Valley Fever
NARS	: National Agricultural Research Systems	SAARC	: South Asian Association for Regional Co-operation
NASF	: National Agricultural Science Fund	SAUs	: State Agricultural Universities
NBSS&LUP	: National Bureau of Soil Survey and Land Use Planning	SCSMV	: Sugarcane Streak Mosaic Virus
NDF	: Non-detergent Fibre	SiRNA	: Small interfering RNA
NDRI	: National Dairy Research Institute	ShRNA	: Small hairpin RNA
NDVSU	: Nanaji Deshmukh Veterinary Science University	SNP	: Single Nucleotide Polymorphism
NEH	: North-Eastern Hills	SOD	: Super Oxide Dismutase
NET	: National Eligibility Test	SPR	: Surface Plasmon Resonance
NGOs	: Non-Government Organizations	SRF	: Senior Research Fellowship
NIABI	: Network of Indian Agri-business Incubators	SSD	: Surface and Subsurface Drainage
NICRA	: National Initiative on Climate Resilient Agriculture	SRI	: System of Rice Intensification
NISAGENET	: National Information System on Agricultural Education Network	SSB	: Spawning Stock Biomass
NRC	: National Research Centre	SWYMOD	: Surface-Water Yield Model
NRCC	: National Research Centre on Citrus	TANUVAS	: Tamil Nadu University of Veterinary and Animal Sciences
NSP-Ab	: Non Structural Protein Antibody	TDN	: Total Digestible Nutrient
NTS	: National Talent Scholarship	TFP	: Total Factor Productivity
NUE	: Nitrogen Uptake	TLCV	: Tomato Leaf Curl Virus
NWPSI	: Network Project on Sheep Improvement	TLR-1	: Toll Like Receptor-1
OBCs	: Other Backward Classes	TMU	: Total Milk Yield
PCR	: Polymerase Chain Reaction	TOT	: Transfer of Technology
PIADC	: Plum Island Animal Disease Center	TSP	: Tribal Sub-Plan
PG	: Post-graduate	TSS	: Total Soluble Solids/Sugars
PME	: Priority Setting, Monitoring and Evaluation	TTV	: Transfusion Transmitted Virus
PPGSE	: Plausible Potato Growing Seasons Estimator	UG	: Under-graduate
PPR	: <i>Peste des Petitis Ruminants</i>	UGC	: University Grants Commission
PRRSV	: Porcine Reproductive and Respiratory Syndrome Virus	UV	: Ultra Violet
QTL	: Quantitative Trait Loci	VACV	: Vaccinia Virus
RAWE	: Rural Agricultural Work Experience	VS	: Vesicular Stomatitis
RCCARI	: Research Centre of Central Avian Research	VNTR	: Variable Number Tandem Repeats
		VPKAS	: Vivekananda Parvatiya Krishi Anusandhan Sansthan
		VRFA	: Variable Rate Granular Fertilizer Applicator
		WB	: Western blot test
		WNF	: West Nile Fever



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