

APPENDIX I

(A) SUBJECT ALLOCATED TO DEPARTMENT OF AGRICULTURAL RESEARCH AND EDUCATION

Part I

The following subjects which fall within list –I of the Seventh Schedule of the Constitution of India.

1. International co-operation 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 co-ordination 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. Co-ordination 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 /extension and education.
4. Cesses 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, co-relation, 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 Co-ordinated 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	1
A	Additional Secretary, DARE/Secretary, ICAR	1
A	Additional Secretary and Financial Adviser	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 (Official Language)	1
B	Private Secretary	3
B	Section Officer	4
B	Assistant	4
B	Personal Assistant / Steno Grade "C"	3
C	Junior Hindi Translator	1
C	UDC-cum-Cashier	1
C	UDC	2
C	Steno Grade "D"	3
C	UDC-Hindi Typist	1
C	Staff Car Driver	1
C	LDC	2
D	Daftary	1
D	Peon	5
	Total	50

NAMES OF IMPORTANT FUNCTIONARIES

Sl No.	Name	Designations
1.	Dr S. Ayyappan	Secretary, DARE and Director General, ICAR
2.	Shri Arvind R. Kaushal	Additional Secretary, DARE and Secretary, ICAR
3.	Shri P.K. Pujari	Additional Secretary and Financial Adviser (DARE/ICAR)
4.	Shri Rajesh Ranjan	Director
5.	Shri A. Prabhakaran	Director
6.	Shri Mohinder Kumar	Sr PPS
7.	Shri M.S. Nayar	Under Secretary
8.	Smt. Alka Ahuja	Under Secretary
9.	Smt. Sumita Dasgupta	Under Secretary
10.	Shri Irsad Alam	Under Secretary
11.	Shri V.K. Singh	Under Secretary
12.	Shri Vijay Singh	Under Secretary
13.	Smt. Rekha Anand	Under Secretary
14.	Shri A.K.Bhardwaj	Principal Private Secretary
15.	Shri V. Kurien John	Principal Private Secretary
16.	Dr Puran Singh	Assistant Director (OL)

APPENDIX III

ACTIVITY PROGRAMME CLASSIFICATION

The Budget Estimates (BE) and Revised Estimates (RE) of DARE and ICAR (Plan, Non-Plan) for 2011–12 are ₹4966.14 crore and ₹5016.14 crore respectively and BE for 2012–13 (Plan and Non-Plan) is ₹5392.00 crore. The detailed break-up of these financial figures are given below in Tables 1 and 2.

Department of Agricultural Research and Education (DARE): The details in respect of BE and RE for 2011–12 and BE for 2012–13 are given in Table 1. This excludes the payment to the ICAR.

Table 1. Budget estimates and revised estimates of DARE

(Rupees in lakh)

Items	Budget Estimates 2011–12		Revised Estimates 2011–12		Budget Estimates 2012–13	
	Plan	Non-Plan	Plan	Non-Plan	Plan	Non-Plan
Major Head '3451'	–	337.00	–	353.00	–	382.00
090 Secretary						
Major Head '2415'						
80 -General						
International Co-operation						
(010032) -India's membership contribution to Commonwealth Agricultural Bureau International (CABI)	–	13.50	–	17.00	–	35.25
(020032) -India's membership contribution to Consultative Group on International Agricultural Research	–	400.00	–	375.00	–	1500.00
03 -Other programmes						
(030012) -Foreign Travel expenses	70	–	85	–	80.00	–
(030020) -Other Administrative expenses	30	–	15	–	20.00	–
(040032) -India's contribution to Asia Pacific Association of Agricultural Institutions	–	5.25	–	5.00	–	5.25
(050032) -India's contribution to NACA	–	20.50	–	27.25	–	31.00
(060032) -India's contribution to CGPRT	–	5.00	–	1.35	–	8.00
(070032) -India's contribution to Seed Testing Associations	–	2.50	–	3.15	–	3.25
(080032) -ISHS Belgium	–	0.25	–	0.25	–	0.25
Major head '2415'						
02 -Grants-in-Aid Central Agricultural University Bundelkhand						
120 Assistance to other institutions						
(020031) -Grants-in-Aids-General	2999.00	–	0.50	–	200.00	–
(020035) -Grants for creation of Capital assets	1.00	–	0.50	–	1600.00	–
(020036) -Grants-in-Aid Salaries	–	–	–	–	200.00	–
(03) -Grants-in-Aids to Central Agricultural University, Bihar						
(030031) -Grants-in-Aid-General	–	–	–	–	100.00	–
(030035) -Grants for creation of Capital assets	–	–	–	–	800.00	–
(030036) -Grants-in-Aids-Salaries	–	–	–	–	–	–
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 CAU, Imphal	10799.00*	–	10000.00**	–	2075.00	–
010035 -Grants-in-Aids-Capital CAU, Imphal	1.00	–	1.00	–	2965.00	–
(010036) -Grants-in-Aid Salaries	–	–	–	–	5460.00	–
(02) -Grants-in-Aids to Central Agricultural University, Barapani						
020031 -Grants-in-Aids General	–	–	–	–	200.00	–
020035 -Grants-in-Aids Capital	–	–	–	–	1000.00	–
(020036) -Grants-in-Aids Salaries	–	–	–	–	800.00	–

*Includes ₹ 2800.00 lakh for Central Agricultural University, Barapani

**Includes ₹ 1.00 lakh for Central Agricultural University, Barapani

(Table 2 continued) (Rupees in crore)

SI No.	Group/Sub Group/Sub Scheme/Programme/Sub Programme	Major Head	Actuals 2010-11			Budget 2011-12			Revised 2011-12			Budget 2012-13		
			Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
2.02.06	Agricultural Engineering	2415	52.63	67.54	120.17	66.40	80.00	146.40	68.40	72.30	140.70	76.50	82.97	159.47
2.02.07	ICAR Hqr. Admn. including Agricultural Scientists Recruitment Board, Directorate of Knowledge Management in Agriculture and Intellectual Property Rights Management	2415	17.90	110.62	128.52	187.00	121.76	308.76	121.33	135.03	256.36	215.00	140.21	355.21
2.02.08	National Fund for Basic, Strategic and Frontier Application Research in Agriculture	2415	0.00	0.00	0.00	20.00	0.00	20.00	38.00	0.00	38.00	44.50	0.00	44.50
2.02.09	National Agricultural Innovation Project/Externally Aided Project	2415	270.00	0.00	270.00	171.00	0.00	171.00	171.00	0.00	171.00	196.00	0.00	196.00
	Total-Other Programmes of Crop Husbandry		1932.29	2042.68	3974.97	1890.60	1296.26	3186.86	1972.39	1263.65	3236.04	2158.50	1208.29	3366.79
	Total-Crop Husbandry		1932.29	2044.18	3976.47	1890.60	1297.26	3187.86	1972.39	1264.65	3237.04	2158.50	1209.79	3368.29
3.01	Soil and Water Conservation Research Institute	2415	5.03	31.00	36.03	6.00	31.00	37.00	6.00	31.25	37.25	7.00	34.32	41.32
3.02	Other Natural Resource Management Institutes including Agro-forestry Research	2415	118.00	220.05	338.05	174.10	227.50	401.60	204.10	257.39	461.49	198.00	275.26	473.26
3.03	Climate Resilient Agriculture Initiative	2415	200.00	0.00	200.00	130.00	0.00	130.00	112.00	0.00	112.00	150.00	0.00	150.00
	Total-Soil and Water Conservation		323.03	251.05	574.08	310.10	258.50	568.60	322.10	288.64	610.74	355.00	309.58	664.58
4.	Animal Husbandry	2415	112.68	370.18	482.86	145.30	388.00	533.30	182.48	390.07	572.55	212.00	416.36	628.36
5.	Fisheries	2415	65.00	192.29	257.29	65.00	206.00	271.00	92.00	206.42	298.42	101.50	216.62	318.12
6.	National Institute for Biotic Stress Management	2415	0.00	0.00	0.00	20.00	0.00	20.00	0.01	0.00	0.01	20.00	0.00	20.00
7.	Indian Institute of Agricultural Biotechnology	2415	0.00	0.00	0.00	30.00	0.00	30.00	0.01	0.00	0.01	20.00	0.00	20.00
	Total-Payments to Indian Council of Agricultural Research (ICAR)		2433.00	2857.70	5290.70	2461.00	2149.76	4610.76	2568.99	2149.78	4718.77	2867.00	2152.35	5019.35
8.	Contributions to Commonwealth Agricultural Bureau, Consultative Group on International Agricultural Research and Association of Asia Pacific Agricultural Research Institutions	2415	88.79	3.64	92.43	1.00	4.47	5.47	1.00	4.29	5.29	1.00	15.83	16.83
9.	Central Agricultural University, Bundelkhand	2415	0.00	0.00	0.00	30.00	0.00	30.00	0.01	0.00	0.01	20.00	0.00	20.00

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

The Society shall have the following *Ex-Officio* Members:

- (i) *Minister-in-charge of the portfolio of Agriculture in the Union Cabinet and President of the ICAR Society.*
- 1 Shri Sharad Pawar *Ex-Officio*
Minister of Agriculture and Food
Processing Industries
Government of India
Krishi Bhavan, New Delhi-110 001
- (ii) *Minister of State in the Union Ministry of Agriculture dealing with the ICAR*
- 2 Shri Tariq Anwar *Ex-Officio*
Union Minister of State for Agriculture &
Food Processing Industries
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 P. Chidambaram *Ex-officio*
Minister of Finance
Government of India,
North Block, New Delhi 110 001
- 4 Shri Rajeev Shukla *Ex-officio*
Minister of State for Planning
Government of India,
Yojna Bhawan, New Delhi 110 001
- 5 Shri Jaipal Sudini Reddy
Minister for Science & Technology
Government of India,
CSIR Building, 2 Rafi Marg,
New Delhi-110 001
- 6 Dr. M. Mangapati Pallam Raju *Ex-officio*
Minister of Human Resource Development,
Government of India
Shastri Bhavan, New Delhi 110 001
- 7 Shri Anand Sharma, *Ex-officio*
Minister of Commerce & Industry,
Government of India,
Udyog Bhavan, New Delhi 110 001
- (iv) *Other Ministers in the Union Ministry of Agriculture.*
- 8 Shri Charan Das Mahant *Ex-officio*
Minister of State for Agriculture and
Food Processing Industries
Krishi Bhawan, New Delhi 110 001
- (v) *Ministers in the States in-charge of Agriculture/ Horticulture/Animal Husbandry/Fisheries.*

ANDHRA PRADESH

- 9 Shri K.L. Narayana *Ex-officio*
Minister for Agriculture
Government of Andhra Pradesh
A.P. Secretariat
Hyderabad, Andhra Pradesh 500 022
- 10 Shri Ramreddy Venkata Reddy *Ex-officio*
Minister for Horticulture
Government of Andhra Pradesh
A.P. Secretariat
Hyderabad, Andhra Pradesh 500 022
- 11 Shri Viswarupu P *Ex-officio*
Minister for Animal Husbandry &
Fisheries
A.P. Secretariat
Government of Andhra Pradesh
Hyderabad, Andhra Pradesh 500 022

ARUNACHAL PRADESH

- 12 Shri Setong Sena *Ex-officio*
Minister for Agriculture, Horticulture
& Animal Husbandry
Government of Arunachal Pradesh
CM Secretariat
Itanagar, Arunachal Pradesh 791 111
- 13 Shri Rajesh Tacho *Ex-officio*
Minister for Fisheries
Government of Arunachal Pradesh
State Secretariat Complex,
Itanagar, Arunachal Pradesh 791 111

ASOM

- 14 Shri Nilomani Sen Deka *Ex-officio*
Minister for Agriculture & Horticulture
Government of Asom
Janta Bhavan, Dispur
Guwahati, Asom 781 006
- 15 Shri Khorsingh Engti *Ex-officio*
Minister for Animal Husbandry
Government of Asom
Janta Bhavan, Dispur
Guwahati, Asom 781 006
- 16 Shri Basanta Das *Ex-officio*
Minister for Fisheries
Government of Asom
Janta Bhavan, Dispur
Guwahati, Asom 781 006

BIHAR

- 17 Shri Narendra Singh *Ex-officio*
Minister for Agriculture
Government of Bihar
Vikas Bhavan, New Secretariat
Bailey Road, Patna, Bihar 800 015
- 18 Shri Giriraj Singh *Ex-officio*
Minister for Animal Husbandry
& Fisheries Resources
Government of Bihar
Vikas Bhavan, New Secretariat,
Bailey Road, Patna, Bihar 800 015

CHHATISGARH

- 19 Shri Chandrashekhar Sahu *Ex-officio*
Minister for Agriculture, Fisheries &
Animal Husbandry
Government of Chhattisgarh
Sachivalaya,
Raipur(Chhattisgarh)

DELHI

- 20 Shri Raj Kumar Chauhan *Ex-officio*
Minister for Power, Development and
Food & Civil Supplies
National Capital Territory of Delhi
Delhi Secretariat, I.P. Estate
New Delhi 110 002

GOA

- 21 Shri Manohar Parrikar *Ex-officio*
Chief Minister holding the Charge of
Agriculture, Horticulture & AH
Government of Goa Secretariat
Panaji, Goa 403 001



APPENDICES

22	Shri Avertano Furtado Minister for Fisheries Government of Goa Secretariat Panaji, Goa 403 001	<i>Ex-officio</i>	35	Shri S.A. Ravindranath Minister for Horticulture Government of Karnataka, Vidhan Soudha, Bengaluru Karnataka 560 001	<i>Ex-officio</i>
GUJARAT					
23	Sh. Babubhai Bokhria Minister for Agriculture, Fisheries & Animal Husbandry Government of Gujarat Sachivalaya, Gandhinagar, Gujarat 382 010	<i>Ex-officio</i>	36	Shri Revunaik Belamagi Minister for Animal Husbandry & Fisheries Department Government of Karnataka Vidhan Soudha, Bengaluru Karnataka 560 001	<i>Ex-officio</i>
HARYANA					
24	Shri Paramvir Singh Minister for Agriculture, Fisheries & Animal Husbandry Government of Haryana Haryana Civil Secretariat Chandigarh, Haryana	<i>Ex-officio</i>	KERALA		
HIMACHAL PRADESH					
25	Sh. Virbhadrha Singh Chief Minister holding the Charge of Animal Husbandry, Government of Himachal Pradesh H.P. Secretariat Shimla, Himachal Pradesh 171 002	<i>Ex-officio</i>	37	Shri K.P. Mohanan Minister for Agriculture & Animal Husbandry Government of Kerala Secretariat Annexe Thiruvananthapuram, Kerala 695 001	<i>Ex-officio</i>
26	Sh. Sujan Singh Pathania Agriculture Minister Government of Himachal Pradesh H.P Secretariat, Shimla Himachal Pradesh		38	Shri K. Babu Minister for Fisheries Government of Kerala North Block, Secretariat Thiruvananthapuram, Kerala 695 001	<i>Ex-officio</i>
27	Smt. Vidya Stokes Minister for Horticulture, Government of Himachal Pradesh H.P. Secretariat, Shimla, Himachal Pradesh 171 002	<i>Ex-officio</i>	MADHYA PRADESH		
28	Shri Thakur Singh Bharmouri Minister for Fisheries Government of Himachal Pradesh H.P. Secretariat, Shimla, Himachal Pradesh 171 002	<i>Ex-officio</i>	39	Dr. Ramkrishna Kusmariya Minister for Agriculture Development Government of Madhya Pradesh Vallabh Bhavan Bhopal Madhya Pradesh 423 006	<i>Ex-officio</i>
JAMMU & KASHMIR					
29	Shri Ghulam Hassan Mir Minister for Agriculture Production Government of Jammu & Kashmir Civil Secretariat, Jammu Jammu & Kashmir 180 001	<i>Ex-officio</i>	40	Shri Kailash Vijayvargiya Minister for Horticulture Government of Madhya Pradesh Vallabh Bhavan Bhopal Madhya Pradesh 423 006	<i>Ex-officio</i>
30	Shri Aga Syed Ruhullah Mehdi Minister for Animal Husbandry, Government of Jammu & Kashmir Civil Secretariat, Jammu Jammu & Kashmir 180 001	<i>Ex-officio</i>	41	Shri Ajay Vishnoi Minister for Animal Husbandry & Fisheries Government of Madhya Pradesh Vallabh Bhavan Bhopal, Madhya Pradesh 423 006	<i>Ex-officio</i>
31	Shri Sham Lal Sharma Minister for Horticulture Government of Jammu & Kashmir Civil Secretariat, Jammu Jammu & Kashmir 180 001	<i>Ex-officio</i>	MAHARASHTRA		
32	Shri Ajaz Ahmed Khan Minister of State for Fisheries Government of Jammu & Kashmir Civil Secretariat, Jammu Jammu & Kashmir 180 001	<i>Ex-officio</i>	42	Shri Radhakrishna Eknathrao Vikhe Patil Minister for Agriculture Government of Maharashtra Mantralaya Mumbai, Maharashtra 400 032	<i>Ex-officio</i>
JHARKHAND					
33	President Rule		43	Shri Madhukarrao Devrao Chavan Minister for Animal Husbandry & Fisheries Government of Maharashtra Mantralaya Mumbai, Maharashtra 400 032	<i>Ex-officio</i>
KARNATAKA					
34	Shri Umesh V. Katti Minister for Agriculture Government of Karnataka Vidhan Soudha, Bengaluru Karnataka 560 001	<i>Ex-officio</i>	44	Dr. Vijaykumar Krishnarao Gavit Minister for Horticulture Government of Maharashtra Mantralaya Mumbai, Maharashtra 400 032	<i>Ex-officio</i>
MANIPUR					
			45	Mohammed Abdul Nasir Minister for Agriculture & Fisheries Government of Manipur Secretariat Imphal, Manipur 795 001	<i>Ex-officio</i>
			46	Shri Govindas Konthoujam Minister for Animal Husbandry Government of Manipur Secretariat Imphal, Manipur 795 001	<i>Ex-officio</i>

**MEGHALAYA**

- 47 Dr. Mukul Sangma
Chief Minister holding the Charge of
Agriculture, Horticulture & Fisheries
Government of Meghalaya
Meghalaya Secretariat (C)
Shillong, Meghalaya 793 001 *Ex-officio*
- 48 Shri B.M. Lanong
Minister for Animal Husbandry
Government of Meghalaya
Meghalaya Secretariat (C)
Shillong, Meghalaya 793 001 *Ex-officio*

MIZORAM

- 49 Shri H. Liansailova
Minister for Agriculture & Horticulture
Government of Mizoram
Aizwal, Mizoram 796 001 *Ex-officio*
- 50 Shri N.K. Chakma
Minister of State for Animal Husbandry
Government of Mizoram
Aizwal, Mizoram 796 001 *Ex-officio*
- 51 Shri R. Lalzirliana
Minister for Fisheries
Government of Mizoram
Aizwal, Mizoram 796 001 *Ex-officio*

NAGALAND

- 52 Shri Neiphu Rio
Chief Minister Holding the Charge of
Horticulture and Fisheries
Government of Nagaland
Civil Secretariat Complex
Kohima, Nagaland 797 004 *Ex-officio*
- 53 Shri Chumben Murry
Minister for Agriculture
Government of Nagaland
Civil Secretariat Complex
Kohima, Nagaland 797 004 *Ex-officio*
- 54 Shri T.R. Zeliang
Minister for Animal Husbandry
Government of Nagaland
Civil Secretariat Complex
Kohima, Nagaland 797 004 *Ex-officio*

ODISHA

- 55 Shri Debi Prasad Mishra
Minister for Agriculture, Fisheries &
Animal Resource Development
Government of Odisha
Orissa Secretariat
Bhubaneswar
Odisha 751 001 *Ex-officio*

PUNJAB

- 56 Shri Prakash Singh Badal
Minister for Agriculture & Horticulture
Government of Punjab
Punjab Civil Secretariat
Chandigarh, Punjab *Ex-officio*
- 57 Shri Sarwan Singh Phillaur
Minister for Animal Husbandry &
Fisheries
Government of Punjab
Punjab Civil Secretariat
Chandigarh, Punjab *Ex-officio*

PUDUCHERRY

- 58 Shri M. Chandrakasu
Minister for Agriculture, Horticulture
Animal Husbandry & Fisheries
Government of Puducherry
Puducherry 605 001 *Ex-officio*

RAJASTHAN

- 59 Shri Harji Ram Burdak
Minister for Agriculture, Horticulture
Animal Husbandry & Fisheries
Government of Rajasthan
Rajasthan Secretariat
Jaipur, Rajasthan 302 005 *Ex-officio*

SIKKIM

- 60 Shri Dawa Norbu Takarpa
Minister for Agriculture Development
& Horticulture
Government of Sikkim Secretariat
Gangtok, Sikkim 737 101 *Ex-officio*
- 61 Shri Dawcho Lepcha
Minister for Animal Husbandry
& Fisheries
Government of Sikkim Secretariat
Gangtok, Sikkim 737 101 *Ex-officio*

TAMIL NADU

- 62 Shri S Damodaran
Minister for Agriculture & Horticulture
Government of Tamil Nadu
Chennai, Tamil Nadu 600 009 *Ex-officio*
- 63 Shri K.A Jayapal
Minister for Fisheries
Government of Tamil Nadu
Chennai, Tamil Nadu 600 009 *Ex-officio*
- 64 Shri T.K.M Chinnayya
Minister for Animal Husbandry
Government of Tamil Nadu
Chennai, Tamil Nadu 600 009 *Ex-officio*

TRIPURA

- 65 Shri Aghore Debbarma
Minister for Agriculture, Horticulture
& Animal Resource Development
Government of Tripura
Civil Secretariat
Agartala, Tripura 799 001 *Ex-officio*
- 66 Shri Khagendra Jamatia
Minister for Fisheries
Government of Tripura
Civil Secretariat
Agartala, Tripura 799 001 *Ex-officio*

UTTARAKHAND

- 67 Shri Harak Singh Rawat
Minister for Agriculture
Government of Uttarakhand
Dehra Dun, Uttarakhand *Ex-officio*
- 68 Smt Amrita Rawat
Minister for Horticulture
Government of Uttarakhand
Dehra Dun, Uttarakhand
- 69 Shri Pritam Singh Panwar
Minister for Animal Husbandry & Fisheries
Government of Uttarakhand
Dehra Dun, Uttarakhand

UTTAR PRADESH

- 70 Shri Anand Singh
Minister for Agriculture
Government of Uttar Pradesh
UP Civil Secretariat
Lucknow, Uttar Pradesh *Ex-officio*
- 71 Shri Paras Nath Yadav
Minister of State for Animal Husbandry
Government of Uttar Pradesh
Sachivalaya Annexe,
Vidhan Sabha Marg,
Lucknow, Uttar Pradesh *Ex-officio*



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72	Shri Akhilesh Yadav Chief Minister holding the Charge of Fisheries Government of Uttar Pradesh Sachivalaya Annexe Vidhan Sabha Marg Lucknow, Uttar Pradesh	<i>Ex-officio</i>	82	Shri Jayant Chaudhary Member of Parliament (LS) 20- Vishawa Laxmi Nagar Near Goverdhan Chauraha Mathura, Uttar Pradesh Shri Jayant Chaudhary Member of Parliament (LS) 12, Tughlak Road, New Delhi-110 011	Till the expiry of the term in Lok Sabha
73	Shri Rajkishore Singh Minister for Horticulture, Government of Uttar Pradesh Sachivalaya Annexe Vidhan Sabha Marg Lucknow, Uttar Pradesh	<i>Ex-officio</i>	83	Shri Ramashankar Rajbhar, Member of Parliament (LS) 185 North Avenue New Delhi-110 001 Shri Rameshshanker Rajbhar, Member of Parliament (LS) Village-Shivpur, PO-Laxmipur District-Deoria, Uttar Pradesh	Till the expiry of the term in Lok Sabha
WEST BENGAL					
74	Shri Moloy Ghatak Minister for Agriculture, Government of West Bengal Writers' Building, Kolkata, West Bengal 700 001	<i>Ex-officio</i>	(viii)	<i>Director-General, Indian Council of Agricultural Research.</i> 84 Dr. S. Ayyappan Director-General, ICAR, Krishi Bhavan, New Delhi-110 001	<i>Ex-officio</i>
75	Shri Nure Alam Chowdhury Minister for Animal Resources Development Department, Government of West Bengal Writers' Building, Kolkata, West Bengal 700 001	<i>Ex-officio</i>	(ix)	<i>All Secretaries in the Ministry of Agriculture.</i> 85 Shri Ashish Bahuguna Secretary (Agriculture & Cooperation) Department of Agriculture & Cooperation Krishi Bhavan, New Delhi-110 001	<i>Ex-officio</i>
76	Shri Subrata Saha Minister for Horticulture & Fisheries Government of West Bengal Writers Building, Kolkata, West Bengal 700 001	<i>Ex-officio</i>	86	Shri G.C. Pati Secretary (ADF) Department of Animal Husbandry, Dairying & Fisheries, Krishi Bhavan, New Delhi-110 001	<i>Ex-officio</i>
(vi)	<i>Member, Planning Commission, In-charge of Agriculture.</i>		(x)	<i>Secretary, Planning Commission.</i>	
77	Dr. K. Kasturirangan Member (Agriculture) Planning Commission, Yojana Bhawan, New Delhi 110 001	<i>Ex-officio</i>	87	Ms. Sindhushree Khullar Secretary, Planning Commission Yojana Bhavan, Sansad Marg, New Delhi-110 001	<i>Ex-officio</i>
(vii)	<i>Six members of Parliament—four elected by Lok Sabha and two elected by Rajya Sabha</i>		(xi)	<i>Secretary, Department of Biotechnology.</i>	
78	Smt. Renuka Chowdhury 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	Till the expiry of term in Rajya Sabha	88	Dr. T. Ramaswami Secretary (Additional Chare) Department of Biotechnology, Block 2, 7 th Floor, CGO Complex, Lodhi Road, New Delhi-110 003 (xii) <i>Director-General, Council of Scientific and Industrial Research.</i>	<i>Ex-officio</i>
79	Prof. M.S. Swaminathan Member of Parliament (RS), 21, Rathna Nagar, Teynampet, Chennai 600 018 Prof. M.S. Swaminathan Member of Parliament (RS), 503, Brahmaputra Apartments Dr. B.D. Marg New Delhi 110 001	Till the expiry of term in Rajya Sabha	(xiii)	<i>Chairman, University Grants Commission.</i> 90 Prof. Ved Prakash Chairman, University Grants Commission Bahadur Shah Zafar Marg, New Delhi-110 002	<i>Ex-officio</i>
80	Shri Thangso Baite Member of Parliament (LS), 88, Super Market, Lamphel, Imphal Manipur 795 004 Shri Thangso Baite Member of Parliament (LS), 14 North Avenue New Delhi-110 001	Till the expiry of term in Lok Sabha	(xiv)	<i>Chairman, Atomic Energy Commission (or Director, Bhabha Atomic Research Centre, if nominated by the Chairman, Atomic Energy Commission).</i> 91 Dr. R.K. Sinha Chairman, Atomic Energy Commission & Secretary to the Government of India, Department of Atomic Energy, Anushakti Bhavan, Chhatrapati Shivaji Maharaj Marg, Mumbai-400 001	<i>Ex-officio</i>
81	Shri K. Jaya Surya Prakash Reddy Member of Parliament (LS), Vill. Laddagiri, Taluka Kodumur, District- Kurnool Hyderabad, Andhra Pradesh-500 034 Shri K. Jaya Surya Prakash Reddy Member of Parliament (LS), C-1/3, Tilak Lane, New Delhi 110 001	-do-	(xv)	<i>Member, Finance (Secretary/ Additional Secretary) in the Ministry of Finance, Government of India.</i> Alternate Member – Financial Adviser (DARE/ICAR). 92 Smt. Anjuly Chib Duggal, Additional Secretary (Expenditure) Department of Expenditure, Ministry of Finance, North Block New Delhi-110 001	<i>Ex-officio</i>



(xvi) <i>Four Vice-Chancellors of Agricultural Universities, nominated by the President.</i>		106 Dr Lalji Singh Vice-Chancellor, Banaras Hindu University, Varanasi, Uttar Pradesh-221 005	31.01.2014
93 Dr. B.S. Dhillon, Vice Chancellor, Punjab Agricultural University, Ludhiana, Punjab - 141 004	10.07.2015	107 Dr S.D. Tripathi 701, Ankita, Sardar Vallabhabhai Patel Nagar, Four Bungalows, Versova, Andheri (West), Mumbai, Maharashtra-400 053	31.01.2014
94 Dr B.V Patil Vice Chancellor University of Agricultural Sciences Raichur, Karnataka 584 102		108 Dr R.K. Gupta South Asia Co-ordinator(DACST), CIMMYT, CG Block, NASC Complex, Dev Prakash Shastri Marg New Delhi -1100 12	31.01.2014
95 Dr K.E. Lawande Vice Chancellor, Dr. Balasaheb Sawant Konkan Krishi. Vidyapeeth,Dapoli District - Ratnagiri, Maharashtra - 415 712		109 Dr Anwar Alam Secretary, NAAS NASC Complex, Dev Prakash Shastri Marg, Pusa, New Delhi-110 012	31.01.2014
96 Dr S.N. Puri Vice Chancellor, Central Agricultural University, P.O. Box No.23, Imphal, Manipur-795 004	21.04.2013	Dr Anwar Alam S-319, Vivekanand Apartment, Sector-5, Plot -2, Dwarka, New Delhi-110 075	31.01.2014
(xvii) <i>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.</i>		110 Dr Anupam Varma INSA Honorary Scientist, Advanced Centre for Plant Virology, Division of Plant Pathology, IARI, Pusa New Delhi-110 012	31.01.2014
97 Dr J.P. Mishra OSD & Agriculture Commissioner, Dept. of Agriculture & Cooperation, Ministry of Agriculture. Krishi Bhavan, New Delhi-110 001	Ex-officio	Dr Anupam Varma 253, Jaimaa Apartments, Plot 16, Sector 5, Dwarka, New Delhi-110 075	31.01.2014
98 Dr Gorakh Singh Horticulture Commissioner, Dept. of Agriculture & Cooperation, Ministry of Agriculture. Krishi Bhavan, New Delhi-110 001	Ex-officio	111 Dr B.S. Pathak KC-5, Kavi Nagar Ghaziabad, Uttar Pradesh-201 002	31.01.2014
99 Dr Amarjit Singh Nanda Animal Husbandry Commissioner, Dept. of Animal Husbandry, Dairying & Fisheries Ministry of Agriculture, Krishi Bhavan, New Delhi-110 001	Ex-officio	112 Dr Mruthyunjaya (Ex National Director, NAIP, ICAR) A-701, Vasundhara Apartments, Plot No.16, Sector-6, Dwarka, New Delhi-110 075	31.01.2014
100 Shri B. Vishnu Bhatt Fisheries Development Commissioner Dept. of Animal Husbandry, Dairying & Fisheries Ministry of Agriculture, Krishi Bhavan, New Delhi-110 001	Ex-officio	113 Prof. S.S. Acharya Honorary Professor 33 Shahi Complex, Sector-11, Udaipur, Rajasthan-313 002	31.01.2014
101 Shri Anoop Badhwa Inspector General of Forests (NAEB) Ministry of Environment & Forests, Paryavaran Bhawan, B-Block CGO Complex, Lodi Road, New Delhi-110 003	Ex-officio	114 Dr R.P. Kachru Ex-ADG, ICAR, 303, D.K. Rainbow, Chuna Bhatti, Kolar Road, Bhopal-462 016 (M.P.)	31.01.2014
(xviii) <i>Fifteen scientists from within and outside the Council including one from the Indian Council of Medical Research, nominated by the President.</i>		115 Prof. B.N. Johri PC Ray Fellow (MPCST) Department of Biotechnology & Bioinformatics Centre, Barkatullah University, Bhopal Madhya Pradesh-462 026	20.03.2014
102 Dr P.L. Gautam Chairperson, Protection of Plant Varieties & Farmers' Rights Authority, NASC Complex, DPS Marg, Pusa New Delhi-110 012	31.01.2014	Prof. B.N. Johri LV-32, Indus Gardens, E-8, Gulmohar Extension, Bawadia Kalan, Bhopal - 462 039 (M.P.)	
103 Dr K.L. Chadha President, The Horticultural Society of India, F-1, National Societies Block, NASC Complex, DPS Marg, Pusa New Delhi-110 012	31.01.2014	<i>Representative of ICMR</i> 116 Dr G.S. Toteja Director, Desert Medicine Research Centre Indian Council of Medical Research(ICMR) New Pali Road, Jodhpur Rajasthan-342 005	18.11.2015
104 Dr R.S. Paroda Chairman, Trust for Advancement of Agricultural Sciences, Avenue II, IARI Campus, New Delhi-110 012	31.01.2014	(xix) <i>Three representatives of commerce and industry, nominated by the President.</i>	
105 Prof. (Dr) M. P. Yadav H.No. 365, Sector-45, Gurgaon, Haryana-122 003	31.01.2014	117 Shri Vijaysinh S. Mohite-Patil President, All India Ethanol Manufacturers Association & former Dy. Chief Minister of Maharashtra, Shivratna Bunglow, Yashwant Nagar, Akluj, Tal:Malshiras, District-Solapur Maharashtra	01.10.2013



APPENDICES

118	Shri Narendra Murkumbi Vice-Chairman & Managing Director Shree Renuka Sugars Limited BC-105 Havelock Road Camp, Belgaum-590 001, Karnataka	01.10.2013	128	Prof. D.P. Tripathi Member of Parliament (RS) 13-D, Firozshah Road, New Delhi - 110 001	08.06.2014
119	Shri Rakesh Bharti Mittal Chairman, CII's National Council for Agriculture & VC/MD, Bharti Enterprises Limited Bharti Crescent, 1 Nelson Mandela Road Vasant Kunj, Phase-II, New Delhi-110 070	01.10.2013	129	Shri Sudhir Kumar Bhargava Director, Agroman Systems Pvt. Ltd. 25/2, Tardeo AC Market, Tardeo, Mumbai, Maharashtra-400 034	08.06.2014
(xx)	<i>One farmer from each region of the country as mentioned in Rule 60(a) and four representatives of rural interests, nominated by the President.</i>		130	Dr. Chanda Nimbkar Director, Animal Husbandry Division, Nimbkar Agricultural Research Instt. P.O. Box 23, Phaltan Maharashtra-415 523	08.06.2014
120	Shri M.V.S. Nagi Reddy Vice President, A.P. Rytanga Samakhya, R.C.M. Church Complex, Gudivada, Krishna District, Andhra Pradesh-521 301	08.06.2014	131	VACANT (xxi) <i>Four Directors of the Indian Council of Agricultural Research Institutes, nominated by the President.</i>	
121	Shri Dharendra Deb Adhikari, Rajobala,8, Sankarpur, Gopinath Nagar, Guwahati - 781016 (Asom)	08.06.2014	132	Dr. H.S. Gupta Director, Indian Agricultural Research Institute Pusa, New Delhi-110 012	21.04.2013
122	Shri N. Kumara, Canna Cottage, 16th Cross, SIT Extention, Nandeesh Layout, Tumkur, Karnataka - 572 103	08.06.2014	133	Dr. Pitam Chandra Director, Central Institute of Agricultural Engineering, Nabi Bagh, Berasia Road Bhopal, Madhya Pradesh-462 038	21.04.2013
123	Shri Kuldeep Dhaliwal, Mayapuri Colony, Karnal Road, Kaithal, Haryana-136 027.	08.06.2014	134	Dr. G. Syda Rao Director, Central Marine Fisheries Research Institute, P.B. No.1603, Ernakulam North Cochin, Kerala-682 018	21.04.2013
124	Shri Amardeep Singh Cheema Gobind Nagar, Kahnawan Road, Batala-143 505 District Gurdaspur, Punjab. Shri Amardeep Singh Cheema Core-4, 2nd floor, Scope Minar, Laxmi Nagar District Centre, Vikas Marg, Delhi-110 092	08.06.2014	135	Dr. K.R. Kranthi Director, Central Institute for Cotton Research P.B. No.02, Shankar Road Nagpur, Maharashtra-440 010 (xxii) <i>Secretary, Indian Council of Agricultural Research- Member Secretary</i>	21.04.2013
125	VACANT		136	Shri Arvind R Kaushal Addl. Secretary(DARE) & Secretary, ICAR Krishi Bhavan, New Delhi 110 001	
126	VACANT				
127	VACANT				
	<i>4 Representatives of Rural Interests</i>				

APPENDIX 2

GOVERNING BODY

Rule position	Sl No.	Name	Date of expiry of term and phone number
Chairman (Director General) Rule 35(i)	1.	Dr S. Ayyappan Director-General, Indian Council of Agricultural Research, Krishi Bhavan, New Delhi - 110 001	23382629, 23386711 (O)
Ex-Officio Members			
Member, Finance. Alternate Member – Financial Adviser (DARE/ICAR) Rule 35(ii)	2.	Smt. Anjuly Chib Duggal, Additional Secretary (Expenditure), Department of Expenditure, Ministry of Finance, North Block, New Delhi - 110 001	<i>Ex-Officio</i> 23092919 (O)
Secretary, Planning Commission Rule 35(iii)	3.	Ms Sindhushree Khullar, Secretary, Planning Commission, Yojana Bhavan, Sansad Marg, New Delhi-110 001	<i>Ex-Officio</i> 23096574 (O)
Secretary, Agriculture Rule 35(iv)	4.	Shri Ashish Bahuguna, Secretary (Agriculture & Cooperation) Department of Agriculture & Cooperation Ministry of Agriculture Krishi Bhavan, New Delhi - 110 001	<i>Ex-Officio</i> 23382651, 23388444 (O)
Chairman, University Grants Commission Rule 35(v)	5.	Prof. Ved Prakash, Chairman, University Grants Commission, Bahadur Shah Zafar Marg, New Delhi - 110 002	<i>Ex-Officio</i> 23234019, 23239659 (O)
Secretary, Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture Rule 35(vi)	6.	Shri G.C. Pati Secretary (ADF), Dept. of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, Krishi Bhavan, New Delhi-110 001	<i>Ex-Officio</i> 23382608 (O)
Secretary, Department of Biotechnology Rule 35(vii)	7.	Dr. T. Ramasami Secretary (Additional Charge) Department of Biotechnology, Ministry of Science & Technology, Block-2, 7th floor, CGO Complex, Lodhi Road, New Delhi-110 003	<i>Ex-Officio</i> 24362950 (O)
Director-General, Council of Scientific & Industrial Research Rule 35(viii)	8.	Prof. S.K. Brahmachari Director General, Council of Scientific & Industrial Research, Anusandhan Bhavan, 2, Rafi Ahmed Kidwai Marg, New Delhi-110 001	<i>Ex-Officio</i> 23710472, 23717053 (O)
Four Scientists (including one Management Expert who are not employees of ICAR - nominated by the President (Rule 35(ix))			
Management Expert	9.	Dr R. S. Paroda Chairman, Haryana Farmers' Commission and Trust for Advancement of Agricultural Sciences, Avenue II, IARI Campus, New Delhi-110 012	31.01.2014 65437870 (O)



(Appendix 2 contd...)

Rule position	Sl. No.	Name	Date of expiry of term and phone number
Scientists	10.	Dr Lalji Singh Vice-Chancellor, Banaras Hindu University, Varanasi, Uttar Pradesh-221 005	31.01.2014 542-2368938 (O)
	11.	Prof. Anwar Alam Secretary, NAAS, NASC Complex, DPSM, Pusa New Delhi-110 012 Prof. Anwar Alam S-319, Vivekanand CGHS Limited, Sector-5, Plot -2, Dwarka, New Delhi-110 075	31.01.2014 25846051 (O)
	12.	Dr Mruthyunjaya (Ex National Director, NAIP, ICAR) A-701, Vasundhara Apartments, Plot No.16, Sector-6, Dwarka, New Delhi-110 075	31.01.2014
Three Vice-Chancellors of Agricultural Universities - nominated by the President Rule 35(x)	13.	Dr S.N. Puri, Vice Chancellor, Central Agricultural University, Post Box No.23, Imphal Manipur-795 004	21.04.2013 0385-2415933(O)
	14.	Dr K.E. Lawande Vice Chancellor Dr Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli District. - Ratnagiri, Maharashtra - 415712	25.12.2015
	15.	Dr B.S. Dhillon, Vice Chancellor, Punjab Agricultural University Ludhiana, Punjab-141 004	24.07.2015 161-2401794(O)
Three Members of Parliament (Two from Lok Sabha and one from Rajya Sabha – nominated by the President). Rule 35(xi)	16.	Shri Jayant Chaudhary Member of Parliament (LS), 12, Tughlak Road, New Delhi-110 011 Shri Jayant Chaudhary Member of Parliament (LS), 20-Vishwa Laxmi Nagar, Near Goverdhan Chauraha, Mathura, Uttar Pradesh	23.08.2015
	17.	Shri Ramashankar Rajbhar Member of Parliament (LS), 185, North Avenue, New Delhi - 110 001 Shri Ramashankar Rajbhar Member of Parliament (LS), Village-Shivpur, Post- Laxmipur, District- Deoria,Uttar Pradesh	23.08.2015
	18.	Smt. Renuka Chowdhury Member of Parliament (RS), 76, Lodhi Estate, New Delhi-110 003 Smt. Renuka Chowdhury Member of Parliament (RS), H.No.8-1-116, Khanapuram (V) Khammam Urban(M), Khammam District, Andhra Pradesh-507 002	31.05.2015



(Appendix 2 concluded)

Rule position	Sl No.	Name	Date of expiry of term and phone number
Three Farmers/ Representatives of Rural Areas - nominated by the President. Rule 35(xii)	19.	Prof. D.P. Tripathi Member of Parliament (RS), 13-D, Firozshah Road, New Delhi-110 001	08.06.2014
	20.	Dr Chanda Nimbkar Director, Animal Husbandry Division, Nimbkar Agricultural Research Institute P.O. Box 23, Phaltan, Maharashtra-415 523	08.06.2014 2166-200783 (O)
	21.	Shri Sudhir Kumar Bhargava, Director, Agroman Systems Pvt. Ltd. 25/2, Tardeo AC Market, Tardeo, Mumbai, Maharashtra-400 034	08.06.2014 022-23512179 (O)
	22.	Dr. H.S. Gupta Director, Indian Agricultural Research Institute, New Delhi - 110 012	21.4.2013 011-25843375(O)
Three Directors of Research Institutes of the Council – nominated by the President Rule 35(xiii)	23.	Dr Pitam Chandra Director, Central Institute of Agricultural Engineering, Nabi Bagh, Berasia Road, Bhopal, Madhya Pradesh-462 038	21.04.2013 0755-2737191(O)
	24.	Dr G Syda Rao Director, Central Marine Fisheries Research Institute, P.B. No.1603, Ernakulam North, Kochi, Kerala-682 018	21.04.2013 0484-2394798(O)
Secretary, ICAR (Member-Secretary) Rule 35(xiv)	25.	Shri Arvind R Kaushal Additional Secretary (DARE) & Secretary (ICAR), Krishi Bhavan, New Delhi-110 001	23384450 (O)



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 Arvind R. Kaushal

Secretary, ICAR and Additional
Secretary to Government of India,
Department of Agricultural Research and Education

Deputy Directors General

1. Dr M.M. Pandey (Agricultural Engineering)
2. Dr K.D. Kokate (Agriculture Extension)
3. Dr S.K. Datta (Crop Science)
4. Dr Arvind Kumar (Education)
5. Dr K.M.L. Pathak (Animal Science)
6. Dr (Mrs) B. Meenakumari (Fisheries)
7. Dr N.K. Krishna Kumar (Horticulture)

Assistant Directors General**Crop Science**

1. Dr N. Gopalakrishnan (Commercial Crops)
2. Dr R.P. Dua (Food & Fodder Crops)
3. Dr T.P. Rajendran (Plant Protection)
4. Dr J.S. Sandhu (Seeds)
5. Dr B.B. Singh (Oilseeds & Pulses)

Horticulture

1. Dr W.S. Dhillon (Hort. I)
2. Dr Umesh Chandra Srivastava (Hort. II)

Natural Resource Management

1. Dr B. Mohan Kumar (Agro. & Agro-forestry)

Agricultural Engineering

1. Dr K.K. Singh (PE)
2. Dr N.P.S. Sirohi (Engineering)

Animal Sciences

1. Dr Gaya Prasad (AH)
2. Dr S.C. Gupta (AP&B)
3. Dr B.S. Prakash (AN&P)

Fisheries

1. Dr S.D. Singh (Inland Fisheries)
2. Dr Madan Mohan (Marine Fisheries)

Agricultural Education

1. Dr C. Devakumar (EP&D)
2. Dr Kusumakar Sharma (HRD)
3. Dr B.S. Bisht (EQR) - Acting

Agricultural Extension

1. Dr V. Venkatasubramanian (AE)

Agricultural Knowledge Management Unit (AKMU)

1. Dr Rameshwar Singh

Others

1. Dr S. Mauria (IP & TM)
2. Dr A.K. Vasisht (PIM)
3. Dr Ravinder Kumar (Acting)

Principal Scientists**Crop Science**

1. Dr Rajan (PP)
2. Dr G.N. Mishra (CC)
3. Dr Dinesh Kumar (FFC)

Horticulture

1. Dr S.K. Malhotra
2. Dr Manish Das

Natural Resource Management

1. Dr P.P. Biswas (Soils)
2. Dr Rajbir Singh (Agro.)

Education

1. Dr M.K. Agnihotri
2. Dr Vinod Kumar
3. Dr K.A. Singh
4. Dr Ranvir Singh
5. Dr (Mrs) Vanita Jain

Fisheries

1. Dr Anil Agarwal (FPT)
2. Dr (Mrs) Usha Moza (F&FS)

Animal Sciences

1. Dr Rajan Gupta (AN)
2. Dr Vineet Bhasin (AG&B)
3. Dr (Mrs) Jyoti Misri (AH)
4. Dr (Mrs) Neelam Gupta (AB)

Engineering

1. Dr S. Ganesan (FM&P)

Agri. Extension

1. Dr V.P. Chahal (A.Ext'n.)

Others

1. Dr M. Kochu Babu (NAIP)
2. Dr A.K. Bawa
3. Dr Sanjeev Saxena (Agri-Innovate India Ltd)
4. Dr A. Arunachalam
5. Dr R.K. Tomar
6. Dr R.P. Misra (NAIP)
7. Dr Dalip Lal (PIM)
8. Dr (Mrs) Harjit Kaur

Agricultural Scientists' Recruitment Board

1. Dr Gurbachan Singh, Chairman
2. Dr V.N. Sharda, Member
3. Dr S.K. Bandyopadhyay, Member
4. Sh N.S. Randhawa, Secretary
5. Sh M.K. Jain, Controller of Examination
6. Sh Rajiv Mangotra, Dy. Secy.

National Agricultural Innovation Project

1. Dr M.M. Pandey, DDG (Engg.) & National Director (Acting)
2. Dr R.K. Goyal, National Coordinator
3. Dr A.P. Srivastava, National Coordinator
4. Dr Sudhir Kochhar, National Coordinator
5. Dr P.S. Pandey, National Coordinator

National Fund for Basic and Strategic Research

1. Dr. A. Bandyopadhyay, National Coordinator

Directorate of Knowledge Management in Agriculture

1. Dr. Rameshwar Singh, Project Director
2. Dr. D.K. Aggarwal (Agril. Stats.)
3. Sh. V.K. Bharti, Chief Production Officer
4. Dr. Kuldeep Sharma, Editor (Hindi) and Unit Incharge
5. Dr. R.P. Sharma, Editor (English) and Unit Incharge
6. Sh. Hans Raj, Information System Officer
7. Sh. S.K. Joshi, Business Manager
8. Dr. B.N. Chattopadhyay, CNO
9. Sh. Anil Sharma, Public Relations Officer

**Administration****Directors**

1. Sh. J. Ravi, Director (P)
2. Sh. Sanjay Gupta, Director (Admn.)
3. Sh. A.C. Ghosh, Director (GA)
4. Sh. Devender Kumar, Director (F)
5. Sh. H.C. Joshi, Director (OL)
6. Sh. V.P. Kothiyal, Director (Works)
7. Smt. Shashi Prabha Razdan, Director (Hort.)

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.P. Sanwal
7. Sh. S.K. Behera
8. Sh. Pitamber
9. Sh. S.K. Mitra
10. Ms. Sunita Sharma
11. Sh. K.N. Choudhary
12. Sh. V.D. Naniwadekar
13. Sh. V.K. Sharma
14. Ms. Roja Sethumadhavan

APPENDIX 4**ICAR INSTITUTES AND THEIR DIRECTORS**

1. Dr. H.S. Gupta
Indian Agricultural Research Institute
Pusa Campus, New Delhi 110 012
2. Dr. Gaya Prasad (Acting)
Indian Veterinary Research Institute
Izatnagar (Uttar Pradesh) 243 122
3. Dr. A.K. Srivastava
National Dairy Research Institute
Karnal (Haryana) 132 001
4. Dr. W.S. Lakra
Central Institute of Fisheries Education
Jaiprakash Road, Seven Bungalow (Versova)
Mumbai (Maharashtra) 400 061
5. Dr. S.L. Goswami
National Academy of Agricultural Research
Management, Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
6. Dr. P.S. Minhas
National Institute of Abiotic Stress Management
Malegaon, Baramati, Pune (Maharashtra) 413 115
7. Dr. R. Ramani (OSD)
Indian Institute of Agricultural Biotechnology
Ranchi, Jharkhand
8. Dr. T.P. Rajendran (OSD)
National Institute of Biotic Stress Management
Raipur, Chhattisgarh
9. Dr. S.D. Roy
Central Agricultural Research Institute
Post Box No. 181 Port Blair
(Andaman & Nicobar Islands) 744 101
10. Dr. M.M. Roy
Central Arid Zone Research Institute
Jodhpur (Rajasthan) 342 003
11. Dr. Pitam Chandra
Central Institute of Agricultural Engineering
Nabi Bagh Berasia Road
Bhopal (M.P.) 462 038
12. Dr. Satish Kumar Sharma
Central Institute of Arid Horticulture
Bikaner (Rajasthan) 334 006
13. Dr. K.R. Kranthi
Central Institute for Cotton Research
Post Bag No. 2, Shankar Nagar P.O.
Nagpur (Maharashtra) 440 010
14. Dr. H. Ravishankar
Central Institute for Sub-tropical Horticulture
Rehmankhara, PO Kakori
Lucknow (U.P.) 227 107
15. Dr. Nazeer Ahmed
Central Institute of Temperate Horticulture
Old Air Field, Rangreth (Jammu & Kashmir) 190 007
16. Dr. U.S. Shivhare
Central Institute of Post Harvest Engg. And Technology
P.O. PAU Campus, Ludhiana (Punjab) 141 004
17. Dr. S.K. Chattopadhyay (Acting)
Central Institute for Research on Cotton
Technology Adenwala Road
Matunga, Mumbai (Maharashtra) 400 019
18. Dr. George V. Thomas
Central Plantation Crops Research Institute
Kasaragod (Kerala) 671 124
19. Dr. Bir Pal Singh
Central Potato Research Institute
Shimla (Himachal Pradesh) 171 001
20. Dr. B. Venkateswarlu
Central Research Institute for Dryland Agriculture
Santoshnagar, Saidabad P.O.
Hyderabad (Andhra Pradesh) 500 059
21. Dr. K.K. Satpathy
National Institute of Research on Jute & Allied
Fibre Technology, 12, Regent Park
Kolkata (West Bengal) 700 040
22. Dr. Trilochan Mohapatra
Central Rice Research Institute
Cuttack (Odisha) 753 006
23. Dr. D.K. Sharma
Central Soil Salinity Research Institute
Zarifa Farm, Kachhwa Road
Karnal (Haryana) 132 001
24. Dr. P.K. Mishra
Central Soil & Water Conservation Research
& Training Institute 218, Kaulagarh Road
Dehradun (Uttarakhand) 248 195
25. Dr. T.G.K. Murthy (Acting)
Central Tobacco Research Institute
Rajahmundry (Andhra Pradesh) 533 105
26. Dr. S.K. Chakrabarti
Central Tuber Crops Research Institute
Sreekariyam
Thiruvananthapuram (Kerala) 695 017
27. Dr. N.P. Singh
ICAR Research Complex for Goa
Ela, Old Goa, North Goa (Goa) 403 402
28. Dr. B.P. Bhatt
ICAR Research Complex for Eastern Region
ICAR Parisar, P.O. Bihar Veterinary
College, Patna (Bihar) 800 014
29. Dr. S.V. Ngachan
ICAR Research Complex for NEH Region
Umroi Road, Umiam, Ri-Bhoi (Meghalaya) 793 103
30. Dr. V. K. Bhatia
Indian Agricultural Statistics Research Institute
Library Avenue
Pusa Campus (New Delhi) 110 0012



31. Dr. P.K. Ghosh
Indian Grassland & Fodder Research Institute
Pahuj Dam, Gwalior Road
Jhansi (Uttar Pradesh) 284 003
32. Dr. Amrik Singh Sidhu
Indian Institute of Horticulture Research
Hessaraghatta Lake Post
Bengaluru (Karnataka) 560 089
33. Dr. N. Nadarajan
Indian Institute of Pulses Research
Kanpur (Uttar Pradesh) 208 024
34. Dr. A. Subba Rao
Indian Institute of Soil Sciences
Nabi Bagh, Berasia Road
Bhopal ((Madhya Pradesh) 462 038
35. Dr. M. Anandraj
Indian Institute of Spices Research
Marikunnu P.O., Calicut (Kerala) 673 012
36. Dr. S. Solomon
Indian Institute of Sugarcane Research
Rai Bareilly Road, P.O. Dilkusha
Lucknow (Uttar Pradesh) 226 002
37. Dr. R. Ramani
Indian Institute of Natural Resins and Gums
Namkum, Ranchi (Jharkhand) 834 010
38. Dr. P.S. Naik
Indian Institute of Vegetable Research
PB No. 01, PO Jakhini
Shahanshapur Varanasi (U.P.) 221 005
39. Dr. K.K. Satpathy
National Institute of Research on Jute & Allied
Fibre Technology,12, Regent Park
Kolkata (West Bengal) 700 040
40. Dr. N. Vijayan Nair
Sugarcane Breeding Institute
Coimbatore (Tamil Nadu) 641 007
41. Dr. Jagdish Chandra Bhatt
Vivekanand Parvatiya Krishi Anusandhan Sansthan
Almora (Uttarakhand) 263 601
- Animal Sciences and Fisheries**
42. Dr. R.P. Singh
Central Avian Research Institute
Izatnagar, Bareilly (Uttar Pradesh) 243 122
43. Dr. R.K. Sethi
Central Institute for Research on Buffaloes
Sirsa Road, Hisar (Haryana) 125 001
44. Dr. S.K. Agarwal
Central Institute of Research on Goats
Makhdoom, Mathura (U.P.) 281 122
45. Dr. Anil Prakash Sharma
Central Inland Fisheries Research Institute
Barrackpore (West Bengal) 700 120
46. Dr. A.G. Ponniah
Central Institute of Brackishwater Aquaculture
75, Santhome High Road
Raja Annamalai Puram
Chennai (Tamil Nadu) 600 028
47. Dr. T.K. Srinivasa Gopal
Central Institute of Fisheries Technology
Willingdon Island
Matsyapuri P.O.
Kochi (Kerala) 682 029
48. Dr. P. Jayasankar
Central Institute of Freshwater Aquaculture
Kausalyaganga, Bhubaneswar
Khurda (Odisha) 751 002
49. Dr. G. Syda Rao
Central Marine Fisheries Research Institute
P.B. No. 1603, Ernakulam North P.O.,
Kochi (Kerala) 682 018
50. Dr. S.M.K. Naqvi
Central Sheep & Wool Research Institute
Distt. Tonk
Avikanagar (Rajasthan) 304 501
51. Dr. C.S. Prasad
National Institute of Animal Nutrition & Physiology
Adugodi
Bengaluru (Karnataka) 560 030

APPENDIX 5

NATIONAL BUREAUX AND THEIR DIRECTORS

Agricultural Sciences

1. Dr. B.S. Bhumannavar (Acting)
National Bureau of Agriculturally
Important Insects, P.B. No. 2491, H.A.
Farm Post, Bengaluru (Karnataka) 560 024
2. Dr. Arun Kumar Sharma
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. Dipak Sarkar
National Bureau of Soil Survey and Land
Use Planning, Shankar Nagar, P.O. Amravati Road
Nagpur (Maharashtra) 440 010

Animal Sciences

5. Dr. B.K. Joshi
National Bureau of Animal Genetic Resources
P.B. No. 129, G.T. Road Bye Pass
Karnal (Haryana) 132 001
6. Dr. J.K. Jena
National Bureau of Fish Genetic Resources
Canal Ring Road, P.O. Dilkusha
Lucknow (Uttar Pradesh) 226 002

APPENDIX 6

PROJECT DIRECTORATES, ZONAL PROJECT DIRECTORATES AND THEIR DIRECTORS

Agricultural Sciences

1. Dr. B. Gangwar
Project Directorate for Farming Systems Research
Modipuram, Meerut (Uttar Pradesh) 250 110
2. Dr. J.B. Mishra
Directorate of Groundnut Research
Post Box No. 5, Ivnagar Road
Junagadh (Gujarat) 362 001
3. Dr. Rameshwar Singh
Directorate of Knowledge Management in Agriculture
KAB-I, Pusa, (New Delhi) 110 012
4. Dr. O.P. Yadav
Directorate of Maize Research
Indian Agricultural Research Institute
Pusa (New Delhi) 110 012
5. Dr. S. Arulraj
Directorate of Oil Palm Research
Pedavegi West Godavari (Andhra Pradesh) 534 450
6. Dr. K.S. Varaprasad
Directorate of Oilseed Research, Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
7. Dr. J.S. Chauhan
Directorate of Rapeseed - Mustard Research
Sewar, Bharatpur (Rajasthan) 321 303
8. Dr. B. C. Viraktamath
Directorate of Rice Research, Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
9. Dr. S. Rajendra Prasad
Directorate of Seed Research, P.B. No. 11
Kusmaur, P.O. Kaithauli,
Mau Nath Bhanjan (UP) 275 101
10. Dr. Jagannath Vishnu Patil
Directorate of Sorghum Research, Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
11. Dr. S.K. Srivastava
Directorate of Soybean Research
Khandwa Road, Indore (Madhya Pradesh) 452 017
12. Dr. (Mrs.) Indu Sharma
Directorate of Wheat Research, P. Box No. 158
Agrasain Marg, Karnal (Haryana) 132 001
13. Dr. A.R. Sharma
Directorate of Weed Science Research, Maharajpur
Adhartal, Jabalpur (Madhya Pradesh) 482 004
14. Dr. Ashwani Kumar
Directorate of Water Management
Opposite Rail Vihar
Chander sekharpur
Bhubaneswar (Odisha) 751 023
15. Dr. (Mrs.) Krishna Srinath
Directorate of Research on Women in Agriculture
Plot No.50, Mauza-Jokalandi,
P.O. Baramunda
Bhubaneswar (Odisha) 751 003
16. Dr. P.L. Saroj
Directorate of Cashew Research
Darbe, P.O. Puttur
Dakshina Kannada Karnataka 574 202
17. Dr. Ramesh Kumar
Directorate of Floriculture Research
Pusa (New Delhi) 110 012
18. Dr. Satyabrata Maiti
Directorate of Medicinal & Aromatic Plants Research
Boriavi, Anand (Gujarat) 387 310
19. Dr. Manjit Singh
Directorate of Mushroom Research
Chambaghat, Solan (Himachal Pradesh) 173 213

20. Dr. Jai Gopal
Directorate on Onion & Garlic Research
Rajgurunagar, Pune (Maharashtra) 410 505

Animal Sciences

21. Dr. H. Rahman
Project Directorate on Animal Disease
Monitoring and Surveillance, H.A. Farm Post, Hebbal
Bengaluru (Karnataka) 560 024
22. Dr. Arjava Sharma
Project Directorate on Cattle P.B. No. 17
Grass Farm Road, Meerut Cantt. (U.P.) 250 001
23. Dr. B. Pattnaik
Project Directorate on Foot-and-Mouth Disease
IVRI Campus, Mukteshwar (Uttarakhand) 263 138
24. Dr. R.N. Chatterjee (Acting)
Project Directorate on Poultry, Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
25. Dr. Ashoktaru Barat (Acting)
Directorate of Coldwater Fisheries Research
Anusandhan Bhawan, Industrial Area
Bhimtal (Uttarakhand) 263 136

Others

26. Dr. S.D. Kulkarni
Soybean Processing and Utilization Centre
CIAE Campus, Nabi Bagh, Berasia Road
Bhopal (MP) 462 038
27. Dr. (Mrs.) Ravinder Kaur
Water Technology Centre
IARI, (New Delhi) 110 012

Zonal Project Directorates

28. Dr. A.M. Narula
Zonal Project Directorate (Zone-I)
PAU Campus, Ludhiana (Punjab) 141 004
29. Dr. Ajoy Kumar Singh
Zonal Project Directorate (Zone-II)
Bhumi Vihar, Block-GB,
Sector-III, Salt Lake,
Kolkata (West Bengal) 700 097
30. Dr. A.K. Gogoi
Zonal Project Directorate (Zone-III)
TOP, Umroi Road
Barapani (Meghalaya) 793 103
31. Dr. Ashok Kumar Singh
Zonal Project Directorate (Zone-IV)
G.T. Road, Rawatpura,
Near Vikas Bhawan (Kanpur) Uttar Pradesh
208 002
32. Dr. N. Sudhakar
Zonal Project Directorate (Zone-V)
CRIDA Complex, Santoshnagar,
Hyderabad (Andhra Pradesh) 500 059
33. Dr. Y.V. Singh
Zonal Project Directorate (Zone-VI)
CAZRI Campus
Jodhpur (Rajasthan) 342 003
34. Dr. Anupam Mishra (Acting)
Zonal Project Directorate (Zone-VII)
JNKVV Campus, Jabalpur (Madhya Pradesh)
484 002
35. Dr. S. Prabhu Kumar
Zonal Project Directorate (Zone-VIII)
ICAR Transfer of Technology Project,
MRS HA Farm Post, Hebbal,
Bengaluru (Karnataka) 560 030



APPENDIX 7

NATIONAL RESEARCH CENTRES AND THEIR DIRECTORS

Agricultural Sciences

1. Dr. S.K. Dhyani
National Research Centre for Agro-forestry
Near Pahunj Dam, Jhansi (Uttar Pradesh) 284 003
2. Dr. M.M. Mustaffa
National Research Centre for Banana
Thogamalai Road, Thayanur Post
Thiruchirapalli (Tamil Nadu) 620 102
3. Dr. V.J. Shivankar
National Research Centre for Citrus
P.B. No. 464, Shankar Nagar P.O.
Amravati Road, Nagpur (Maharashtra) 440 010
4. Dr. P.G. Adsule
National Research Centre for Grapes
P.B. No. 3, Manjri Farm Post
Solapur Road, Pune (Maharashtra) 412 307
5. Dr. Chirantan Chattopadhyay
National Centre for Integrated Pest Management
LBS Building, Pusa Campus, New Delhi 110 012
6. Dr. Vishal Nath
National Research Centre for Litchi
Mushahari Farm, Mushahari
Muzaffarpur (Bihar) 842 002
7. Dr. R.P. Medhi
National Research Centre for Orchids
Pakyong, Gangtok (Sikkim) 737 106
8. Dr. Srinivasan (Acting)
National Research Centre on Plant Biotechnology
L.B.S. Building, Pusa, (New Delhi) 110 012
9. Dr. R.K. Pal
National Research Centre on Pomegranate
NH-9, Bypass Road, Shelgi
Sholapur (Maharashtra) 413 006

10. Dr. Balraj Singh
National Research Centre on Seed Spices
Tabiji, Ajmer (Rajasthan) 305 206

Animal Sciences and Fisheries

11. Dr N V Patil
National Research Centre on Camel
Jorbeer, PB 07
Bikaner (Rajasthan) 334 001
12. Dr R K Singh
National Research Centre for Equines
Sirsa Road, Hisar (Haryana) 125 001
13. Dr. V.V. Kulkarni
National Research Centre on Meat
Chengicherla, P.B. No. 19, Uppal PO
Hyderabad (Andhra Pradesh) 500 039
14. Dr. C. Rajkhowa
National Research Centre for Mithun, Jharnapani
P.O. Medziphema (Nagaland) 797 106
15. Dr. D. K. Sarma
National Research Centre on Pig
Rani, Guwahati (Assam) 781 131
16. Dr. S.M. Deb
National Research Centre on Yak,
Dirang
West Kameng (Arunachal Pradesh) 790 101

General

17. Dr. Ramesh Chand
National Centre for Agricultural Economics and
Policy Research
P.B. No. 11305, DPS Marg
Pusa, New Delhi 110 012

APPENDIX 8

ALL-INDIA CO-ORDINATED RESEARCH PROJECTS AND NETWORK CO-ORDINATORS

Crop Sciences

1. Dr N Srinivasa
Network Co-ordinator (Acarology)
UAS
GKVK, Hebbal, Bengaluru (Karnataka) 560 065
2. Dr A Henry
Network Coordinator (Arid Legumes)
CAZRI, Jodhpur (Rajasthan) 342 003
3. Dr B S Bhumann Abar
Project Co-ordinator (Biological Control)
National Bureau of Agriculturally Important Insects
Hebbal, Bengaluru (Karnataka) 560 024
4. Dr K S Varaprasad
Project Co-ordinator (Castor, Sunflower and Safflower)
Directorate of Oilseeds Research
Rajendranagar,
Hyderabad (Andhra Pradesh) 500 030
5. Dr A H Prakash
Project Co-ordinator (Cotton Improvement)
CICR Station, Regional
Coimbatore (Tamil Nadu) 641 003
6. Dr N P Singh
Project Co-ordinator (Chickpea)
Indian Institute of Pulses Research
Kalyanpur, Kanpur (Uttar Pradesh) 208 024
7. Dr A K Roy
Project Co-ordinator (Forage Crops)
Indian Grassland and Fodder Research Institute
PO Pahunj Dam, Jhansi-Gwalior Road
Jhansi (Uttar Pradesh) 284 003
8. Dr J B Misra
Project Coordinator (Groundnut)
Directorate of Groundnut Research
Junagadh
(Gujarat) 362 001
9. Dr R K Thakur
Project Co-ordinator (Honeybees and Pollinators)
Division of Entomology
CCS Haryana Agricultural University
Hisar (Haryana) 125 004
10. Dr S Satpathy
Network Co-ordinator (Jute and Allied Fibres)
Central Research Institute for Jute and Allied Fibres
Barrackpore (West Bengal) 700 120
11. Dr N Nadarajan (Acting)
Project Co-ordinator (Linseed)
CSA University of Agriculture and Technology
Kanpur, (Uttar Pradesh) 208 002
12. Dr O P Yadav
Project Co-ordinator (Maize)
Directorate of Maize Research
New Delhi 110 012
13. Dr Sanjeev Gupta
Project Co-ordinator (MULLARP)
Indian Institute of Pulses Research
Kalyanpur, Kanpur (Uttar Pradesh) 208 024
14. Dr S Rajendra Prasad
Project Co-ordinator (National Seed Project)
Directorate of Seed Research
Kusmaur, Mau (Uttar Pradesh) 275 101



15. Dr R K Jain
Project Co-ordinator (Nematodes)
Division of Nematology
Indian Agricultural Research Institute, Pusa
New Delhi 110 012
 16. Dr V Vasudeva Rao
Network Co-ordinator (Ornithology)
ANGRAU, Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
 17. Dr M M Roy (Acting)
Project Co-ordinator (Pearl millet)
Agricultural Research Station, RAU, Mandore
Jodhpur (Rajasthan) 342 304
 18. Dr K K Sharma
Network Coordinator (Pesticide Residues)
Division of Agricultural Chemicals, LBS Building
Indian Agricultural Research Institute, Pusa
New Delhi 110 012
 19. Dr N Nadarajan (Acting)
Project Co-ordinator (Pigeonpea)
Indian Institute of Pulses Research
Kalyanpur, Kanpur (Uttar Pradesh) 208 024
 20. Dr B C Viraktamath
Project Coordinator (Rice)
Directorate of Rice Research
Hyderabad (Andhra Pradesh) 500 030
 21. Dr A R G Ranganatha
Project Co-ordinator (Sesame and Niger)
JNKVV, Jabalpur (Madhya Pradesh) 482 004
 22. Dr J V Patil
Project Co-ordinator (Sorghum)
Directorate for Sorghum Research
Rajendranagar, Hyderabad (Andhra Pradesh) 500 030
 23. Dr M V Channabyre Gowda
Project Co-ordinator (Small Millets)
University of Agricultural Sciences
GKVK Campus, Bengaluru (Karnataka) 560 065
 24. Dr S K Srivastava
Project Co-ordinator (Soybean)
Directorate of Soybean Research
Indore (Madhya Pradesh) 452 017
 25. Dr O K Sinha
Project Co-ordinator (Sugarcane)
Indian Institute of Sugarcane Research
Lucknow (Uttar Pradesh) 226 002
 26. Dr J S Chauhan
Project Co-ordinator (Rapeseed Mustard)
Directorate of Rapeseed-Mustard Research
Sewar, Bharatpur (Rajasthan) 321 303
 27. Dr R S Tripathi
Network Co-ordinator (Rodent Control)
CAZRI, Jodhpur (Rajasthan) 342 003
 28. Dr V Krishnamurthy
Network Co-ordinator (Tobacco)
CTRI, Rajamundry (Andhra Pradesh) 533 105
 29. Dr D C Bhandari
Network Co-ordinator (Underutilized Crops)
NBPGR, Pusa, New Delhi 110 012
 30. Dr (Mrs) Indu Sharma
Project Co-ordinator (Wheat and Barley)
Directorate of Wheat Research
Karnal (Haryana) 132 001
 31. Dr Swaroop Singh
Network Co-ordinator (White Grubs and Other Soil
Arthropods)
Agricultural Research Station, RAU
Jaipur (Rajasthan) 302 018
- Horticulture**
32. Dr S K Sharma
Project Coordinator (Arid Zone Fruits)
Central Institute of Arid Horticulture
Bikaner (Rajasthan) 334 006
 33. Dr Satyabrata Maiti
Project Co-ordinator (Medicinal
Aromatic Plants and Betelvine)
Directorate of Medicinal and Aromatic Plants
Anand (Gujarat) 387 310
 34. Dr P L Saroj
Project Co-ordinator (Cashew)
Directorate for Cashew Research
Puttur (Karnataka) 574 202
 35. Dr Ramesh Kumar
Project Co-ordinator (Floriculture)
Directorate of Floricultural Research
Indian Agricultural Research Institute, Pusa
New Delhi 110 012
 36. Dr Manjit Singh
Project Coordinator (Mushrooms)
Directorate of Mushroom Research
Chambaghat
Solun (Himachal Pradesh) 173 213
 37. Dr Jai Gopal
Network Co-ordinator (Onion and Garlic)
Project Directorate on Onion and Garlic Research
Rajgurunagar, Pune (Maharashtra) 410 505
 38. Dr H P Maheshwarappa
Project Co-ordinator (Palms)
Central Plantation Crops Research Institute
Kasaragod (Kerala) 671 124
 39. Dr Gopalkrishna
Project Co-ordinator (Potato Improvement)
Central Potato Research Institute
Shimla (Himachal Pradesh) 171 001
 40. Dr A K Misra
Project Co-ordinator (Subtropical Fruits)
Central Institute for Subtropical Horticulture
Rahmankhera
Lucknow (Uttar Pradesh) 227 107
 41. Dr K N Babu
Project Co-ordinator (Spices)
Indian Institute of Spices Research
PB 170, Marikunnu, Calicut (Kerala) 673 012
 42. Dr A S Sidhu
Project Co-ordinator (Tropical Fruits)
Indian Institute of Horticultural Research
Hessarghatta Lake Post
Bengaluru (Karnataka) 560 089
 43. Dr James George
Project Co-ordinator (Tuber Crops)
Regional Station,
Central Tuber Crops Research Institute
Thiruvananthapuram (Kerala) 695 017
 44. Dr Bijendra Singh
Project Co-ordinator (Vegetables)
Indian Institute of Vegetable Research
Varanasi (Uttar Pradesh) 221 005
 45. Dr Nazeer Ahmed
Network Co-ordinator (Temperate Fruits)
Central Institute of Temperate Horticulture
Srinagar (J&K)
- Natural Resource Management**
45. Dr V U M Rao
Project Co-ordinator (Agricultural Meteorology)
CRIDA Campus
Santoshnagar, Hyderabad (Andhra Pradesh) 500 059
 46. Dr D L N Rao
Network Co-ordinator
(Soil Biodiversity and Biofertilizer)
Indian Institute of Soil Science
Bhopal (Madhya Pradesh) 462 038
 47. Dr S K Dhyani
Project Co-ordinator (Agroforestry)
National Research Centre on Agroforestry
Jhansi (Uttar Pradesh) 284 003



48. Dr B Gangwar
Project Co-ordinator (Integrated Farming System)
Project Directorate of Farming Systems Research
Modipuram, Meerut (Uttar Pradesh) 250 110
49. Dr Maruthi Sarkar
Project Co-ordinator (Dryland Agriculture)
CRIDA Campus
Santoshnagar
Hyderabad (Andhra Pradesh) 500 059
50. Dr Muneshwar Singh
Project Co-ordinator (Long-term Fertilizer Experiments)
Indian Institute of Soil Science
Bhopal (Madhya Pradesh) 462 038
51. Dr S K Ambast
Project Co-ordinator (SASUSWA)
Central Soil Salinity Research Institute
Karnal (Haryana) 132 001
52. Dr A K Shukla
Project Co-ordinator (Micronutrients and
Secondary Nutrients and Pollutant Elements)
Indian Institute of Soil Science
Bhopal (Madhya Pradesh) 462 038
53. Dr Ashwani Kumar
Project Co-ordinator (Optimization of Ground
Water Utilization)
Directorate of Water Management
Khurda,
Bhubaneswar (Odisha) 751 023
54. Dr Pradeep Dey
Project Co-ordinator (Soil Test and Crop Response)
Indian Institute of Soil Science
Bhopal (Madhya Pradesh) 462 038
55. Dr Ashwani Kumar
Project Co-ordinator (Water Management)
Directorate of Water Management
Bhubaneswar (Odisha) 751 023
56. Dr P K Singh
Project Co-ordinator (Weed Control)
Directorate of Weed Science Research
Adhartal
Jabalpur (Madhya Pradesh) 482 004
- Engineering and Technology**
57. Dr P R Bhatnagar
Project Co-ordinator (Application of Plastic in
Agriculture)
Central Institute of Post-Harvest Engineering and
Technology
Ludhiana (Punjab) 141 004
58. Dr L P Gite
Project Co-ordinator (Ergonomics and Safety in
Agriculture)
Central Institute of Agricultural Engineering
Bhopal (Madhya Pradesh) 462 038
59. Dr C R Mehta
Project Co-ordinator (Farm Implements and Machinery)
Central Institute of Agricultural Engineering
Bhopal (Madhya Pradesh) 462 038
60. Dr S K Nanda (Acting)
Project Co-ordinator (Post-harvest Technology)
Central Institute of Post-harvest Engineering and
Technology
Ludhiana (Punjab) 141 004
61. Dr K C Pandey
Project Co-ordinator (Renewable Sources of Energy
for Agriculture and Agro-based Industries)
Central Institute of Agricultural Engineering
Bhopal (Madhya Pradesh) 462 038
62. Dr Ramani
Network Co-ordinator
Network Project on Processing and Value-addition of
Natural Resins and Gums
Indian Institute of Natural Resins and Gums
Ranchi (Jharkhand) 834 010
63. Dr Deepak Chaudhuri
Project Co-ordinator (Utilization of Animal Energy with
Enhanced System Efficiency)
Central Institute of Agricultural Engineering
Bhopal (Madhya Pradesh) 462 038
- Animal Sciences**
64. Dr B K Joshi
Network Project Coordinator
(Animal Genetic Resources)
NBAGR, Karnal (Haryana) 132 001
65. Dr H Rahaman
Project Co-ordinator (ADMAS)
Project Directorate on Animal Disease Monitoring
and Surveillance
Hebbal, Bengaluru (Karnataka) 560 024
66. Dr Somvanci
Network Project Co-ordinator (Blue Tongue)
IVRI, Izatnagar (Uttar Pradesh) 243 122
67. Dr R K Sethi
Network Project Co-ordinator (Buffalo Improvement)
CIRB, Hisar (Haryana) 125 001
68. Dr Arjava Sharma
Project Co-ordinator (Cattle)
Project Directorate on Cattle
Meerut (Uttar Pradesh) 250 002
69. Dr C S Prasad
Project Co-ordinator (Improvement of Feed Resources
and Nutrient Utilization in Raising Animal Production
and Outreach Programme on Methane Emission)
NIANP
Audugodi
Bengaluru (Karnataka) 560 030
70. Dr B Pattnaik
Project Co-ordinator (FMD)
Project Directorate on Foot-and-Mouth Diseases
IVRI Campus
Mukteshwar (Uttarakhand) 263 138
71. Dr S K Agarwal
Project Co-ordinator (Goats)
Central Institute for Research on Goat
Mathura (Uttar Pradesh) 281 122
72. Dr Somvanci
Network Project Co-ordinator (*Haemorrhagic
Septicaemia*)
IVRI, Izatnagar 243 122
73. Dr D N Kamra
Network Project Co-ordinator
(Gastro-intestinal parasitism)
IVRI, Izatnagar (Uttar Pradesh) 243 122
74. Dr D K Sarma
Project Co-ordinator (Pigs)
NRC on Pigs
Guwahati (Assam) 781 037
75. Dr R N Chatterjee (Acting)
Project Co-ordinator (Poultry Breeding)
Project Directorate on Poultry
Rajendranagar
Hyderabad (Andhra Pradesh) 500 030
76. Dr G R Patil
Network Co-ordinator (Process Upgradation of
Indigenous Milk for Industrial Application)
NDRI, Karnal (Haryana) 132 001
77. Dr S M K Naqvi
Network Project Co-ordinator (Sheep Improvement)
CSWRI
Tonk Distt.
Avikanagar (Rajasthan) 304 501
- Extension**
78. Dr Krishna Srinath
Project Co-ordinator (Home Science)
Directorate of Research on Women in Agriculture
Bhubaneswar (Odisha) 751 001

APPENDIX 9

AGRICULTURAL UNIVERSITIES AND THEIR VICE CHANCELLORS

Central Agricultural University

1. Dr S. N. Puri
Central Agricultural University
Imphal-795 004, Manipur

State Agricultural Universities

1. Shri V. Nagi Reddy, IAS (Acting)
Acharya NG Ranga Agricultural University
Rajendranagar, Hyderabad-500 030, Andhra Pradesh
2. Dr A.M. Shekh
Anand Agricultural University
Anand-388110, Gujarat
3. Dr K.M. Bujarbaruah
Assam Agricultural University, Jorhat-785013, Asom
4. Prof. Chittaranjan Kole
Bidhan Chandra Krishi Viswavidyalaya
P.O Krishi Viswavidyalaya, Mohanpur
Nadia-741 252, West Bengal
5. Dr M.L. Choudhary
Bihar Agricultural University, Sabour, Bihar 813 210
6. Dr M.P. Pandey
Birsa Agricultural University
Kanke, Ranchi, Jharkhand- 834 006
7. Dr P.K. Sharma
Chandra Shekar Azad University of Agriculture &
Technology, Kanpur- 208 002, U.P
8. Dr KS Khokhar
Chaudhary Charan Singh Haryana Agricultural
University, Hisar-125 004,Haryana
9. Dr S.K. Sharma
Chaudhary Sarwan Kumar Himachal Pradesh Krishi
Vishvavidhalaya
Palampur, Kangra, Himachal Pradesh- 176 062,
10. Dr Kisan E. Lawande
Dr Balasaheb Sawant Konkan Krishi Vidyapeeth,
Dapoli, Ratnagiri-415712, Maharashtra
11. Dr Ravi Prakash G. Dani
Dr Panjabrao Deshmukh Krishi Vidyapeeth, Krishi Nagar,
Akola-444104, Maharashtra
12. Dr K.R. Dhiman
Dr Yashwant Singh Parmar Univeristy of Horticulture &
Forestry, Solan, Nauni 173 230, Himachal Pradesh
13. Dr C.V.S.K. Sharma, I.A.S. (Acting)
Dr Y.S.R. Horticultural University
Post Box no. 7,
Venkataramannagudem- 534 101
West Godawari Distt. Andhra Pradesh
14. Shri Subhash Kumar, IAS (Acting)
Govind Ballabh Pant University of Agriculture &
Technology, Pantnagar
Udhamsingh Nagar -263 145, Uttarakhand
15. Dr V.K. Taneja
Guru Angad Dev University of Veterinary and Animal
Sciences
Ludhiana-141 004, Punjab
16. Dr S. K. Patil
Indira Gandhi Krishi Vishwavidyalaya, Krishak Nagar,
Raipur-492 006, Chhattisgarh
17. Prof. Vijay Singh Tomar
Jawaharlal Nehru Krishi Vishwavidyalaya, Krishi Nagar,
Jabalpur- 482 004, Madhya Pradesh
18. Dr N.C. Patel
Junagadh Agriculture University, MotiBagh,
Agril. Campus, Junagadh-362 001, Gujarat
19. Dr U.K. Mishra
Kamadhenu Veterinary University
Raipur, Chhattisgarh
20. Dr C. Renuka Prasad
Karnataka Veterinary Animal and Fisheries Science
University
P.B. No. 6, Nandinagar
Bidar-585 401, Karnataka
21. Prof. P. Rajendran
Kerala Agricultural University, P.O Vellanikkara,
Thrissur-680 656, Kerala
22. Prof. B. Madhusoodana Kurup
Kerala University of Fisheries & Ocean Studies,
Papangad, Kochi -682506, Kerala
23. Dr B Ashok
Kerala Veterinary and Animal Science University,
Liason Office, Pattom
Thiruvanthapuram-695 004, Kerala
24. Dr Hardeep Kumar
Lala Lajpat Rai University of Veterinary & Animal
Sciences
Hisar, Haryana
25. Dr Govind Prasad Mishra
Madhya Pradesh Pashu Chikitsa Vigyan
Vishwavidyalaya, Civil Lines, Jabalpur-482 001
26. Dr O.P. Gill
Maharana Pratap University of Agriculture & Technology,
Udaipur-313 001, Rajasthan
27. Prof. A.K. Mishra
Maharashtra Animal & Fishery Sciences
University, Nagpur-440 606, Maharashtra
28. Dr T A More
Mahatma Phule Krishi Vidyapeeth
Rahuri-413 722, Maharashtra
29. Dr Milka Singh Aulakh
Manyavar Shri Kanshiram Ji University of Agriculture &
Technology
Banda (U.P) 210 601
30. Dr K.P. Gore
Marathwada Krishi Vidapeeth, Parbhani-431 402,
Maharashtra
31. Dr R.S. Kureel
Narendra Deva University of Agriculture & Technology,
Kumarganj, Faizabad- 224 229, Uttar Pradesh
32. Dr A.R. Pathak
Navsari Agricultural University, Vijalpore,
Navsari-396 450, Gujarat
33. Prof. Debi Prasad Ray
Orissa University of Agriculture & Technology,
Siripur, Bhubaneshwar-751 003, Odisha
34. Dr B.S. Dhillon
Punjab Agricultural University, Ludhiana -141004, Punjab
35. Prof. Ajay Kumar Gahlot
Rajasthan University of Veterinary & Animal Sciences
Bijey Bhawan Palace Complex,
Near Pt. Deendayal Circle, Bikaner-334 006 (Rajasthan)
36. Dr R.K. Mittal
Rajendra Agricultural University, Pusa,
Samastipur-848 125, Bihar
37. Dr A. K. Singh
Rajmata VRS Krishi Vishwa Vidyalaya,
Gwalior-474 002, Madhya Pradesh
38. Dr Arvind Kumar Bakshi
Sardar Vallabh Bhai Patel University of Agriculture &
Technology, Modipuram, Meerut-250 110,
Uttar Pradesh
39. Dr K. Sreedharan (Acting)
Sardarkrushinagar-Dantiwada Agricultural University,
Sardarkrushinagar,
Dantiwada- 385 506, Gujarat



APPENDICES

40. Dr D.K. Arora
Sher-e-Kashmir University of Agricultural Sciences & Technology, Railway Road, Jammu- 180 009 (J&K)
 41. Dr Tej Pratap
Sher-e-Kashmir University of Agricultural Sciences & Technology, Shalimar, Srinagar-191121, (J&K)
 42. Dr V. Prabhakar Rao
Sri Venkateswara Veterinary University,
Tirupati, Chittoor-517 502, A.P.
 43. Dr A.K. Dahama
Swami Keshwanand Rajasthan Agricultural University,
Bikaner, Rajasthan-334006
 44. Dr K. Ramasamy,
Tamil Nadu Agricultural University,
Coimbatore-641003, Tamil Nadu
 45. Mr Sukumar
Joint Special Officer
Tamil Nadu Fisheries University, Nagappatinam
Chennai (Tamil Nadu) 600 007
 46. Dr R. Prabhakaran
Tamil Nadu Veterinary & Animal Sciences University,
Madhavaram Milk Colony, Chennai-600051, Tamil Nadu
 47. Dr R.R. Hanchinal
University of Agricultural Sciences,
Dharwad-580 005,
Karnataka
 48. Dr K. Narayana Gowda
University of Agricultural Sciences, Bengaluru-560065,
Karnataka
 49. Dr S.B. Dandin
University of Horticultural Sciences, Navanagar,
Bagalkot-587101, Karnataka
 50. Dr B.V. Patil
University of Agricultural Sciences, Raichur-584102,
Karnataka
 51. Dr P. M. Salimarth (OSD)
University of Agricultural Sciences,
Shimoga (Karnataka) 577 204
 52. Dr A.P. Singh
UP Pandit Deen Dayal Upadhaya Pashu Chikitsa Vigyan
Vishwa Vidhyalaya Evam Go Anusandhan Sansthan,
Mathura-281001, Uttar Pradesh
 53. Dr Matthew Prasad
Uttarakhand University of Horticulture & Forestry,
Bharsar, Pauri Garhwal, Uttarakhand
 54. Prof. A.C. Sinha (Acting)
Uttar Banga Krishi Vishwavidyalaya, P.O. Pundibari,
Distt. Cooch Behar-736165, West Bengal
 55. Dr C.S. Chakrabarti
West Bengal University of Animal & Fishery Sciences,
37 & 68 KB Sarani, Kolkata-700 037, West Bengal
- Deemed-to-be Universities**
1. Dr R.B. Lal
Sam Higginbottom Institute of Agriculture,
Technology and Sciences,
Allahabad-211007, Uttar Pradesh
 2. Dr W S Lakra
Central Institute of Fisheries Education,
Mumbai-400 061, Maharashtra
 3. Dr H.S. Gupta
Indian Agricultural Research Institute
New Delhi-110 012
 4. Dr Gaya Prasad (Acting)
Indian Veterinary Research Institute, Izatnagar,
Bareilly-243122, Uttar Pradesh
 5. Dr A.K. Srivastava
National Dairy Research Institute
Karnal-132001, Haryana
- Central Universities with Agriculture Faculty**
1. Dr P.K. Abdul Azeez
Aligarh Muslim University
Aligarh 202002, U.P.
 2. Prof. Ravi Pratap Singh
Banaras Hindu University
Varanasi 221005, U.P.
 3. Prof. Bolin Kumar Konwar
Nagaland University, College of Agriculture,
Medzipherma, Nagaland
 4. Prof. Sushanta Data Gupta
Vishwa Bharti, Birbhum Dist.,
Shantiniketan 731235, West Bengal

APPENDIX 10

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

	Total posts sanctioned	Total employees in position	Schedule Caste employees		Schedule Tribe employees		OBC employees	
			Total no. of employees	% of total employees	Total no. of employees	% of total employees	Total no. of employees	% of total employees
1. Scientific Post								
Scientist	3897	3530	459	13	141	04	617	17.5
Senior Scientist	1659	934	45	4.81	11	1.18	99	10.59
Principal Scientist	757	389	14	3.59	03	0.77	23	5.91
RMP	159	144	03	2.08	0	0.00	02	1.38
Total	6472	4997	521	10.42	155	3.10	741	14.8
2. Technical Posts								
Category I	3719	2938	596	20.28	294	10.00	311	10.58
Category II	2376	2089	364	17.42	150	7.2	289	13.83
Category III	540	469	82	17.48	43	9.17	81	17.27
Total	6635	5496	1042	18.95	487	8.86	681	12.39
3. Administrative Posts								
(a) Directors/Deputy Secretaries/Legal Advisor/Under Secretaries/Senior Administrative Officer/Sr Finance & Accounts Officer/Administrative Officer/F&AO/Law Officer/SA to Chairman, ASRB/PPS	315	262	43	16.47	18	6.89	12	4.6
(b) AAOs/AF&AOs/AD(OL) PS/SO/Protocol Officer/ALA	837	712	107	15.02	63	8.84	42	5.9
(c) Assistant/UDC/PA/JAO/Steno/Sr SA/LDC	3739	3045	547	17.96	224	7.35	334	11
Total	4891	4019	697	17.34	305	7.58	388	9.65
4. Supporting Skilled Staff	8879	6736	1997	29.65	679	10.08	728	10.80



APPENDIX 11

AWARDS

AWARD	AWARDEES
Sardar Patel Outstanding ICAR Institution Award 2011	<ol style="list-style-type: none">1. National Bureau of Fish Genetic Resources Canal Ring Road, P.O. Dilkusha, Lucknow-226002, Uttar Pradesh2. Central Potato Research Institute, Shimla-171001(HP)3. Tamil Nadu Veterinary and Animal Sciences University Madhavaram Milk Colony, Chennai-600051 (Tamil Nadu)
Chaudhary Devi Lal Outstanding All India Coordinated Research Project Award 2011	<ol style="list-style-type: none">1. All India Coordinated Wheat & Barley Improvement Project Directorate of Wheat Research PO Box-158, Agrasain Marg, Karnal-132001, Haryana
Rafi Ahmed Kidwai Award for Outstanding Research in Agricultural Sciences 2011	<ol style="list-style-type: none">1. Dr Tilak Raj Sharma Principal Scientist National Research Centre on Plant Biotechnology LBS Centre, Room No.39 IARI, Pusa Campus, New Delhi-1100122. Dr Shyam Narayan Jha Principal Scientist & Head CIPHET,PO-Pali, Ludhiana-141004 (Punjab)3. Dr Asim Kumar Pal Principal Scientist, Division of Nutrition and Biochemistry, Central Institute of Fisheries Education, Deemed University, ICAR, Seven Bungalows, Versova, Andheri (W), Mumbai-400061,India
Lal Bahadur Shastri Outstanding Young Scientist Award 2011	<ol style="list-style-type: none">1. Dr Dileep Kumar Panda Scientist-SS, Directorate of Water Management (ICAR), Chandrasekharapur, Bhubaneswar-751023, Odisha.2. Dr Mohan Mondal Sr.Scientist (Animal Physiology) NRC on Mithun (ICAR), Jharnapani, Medziphema, Via Dimapur, Nagaland-797106.3. Dr Rajeev Rathour Assistant Scientist Deptt. of Agril. Biotechnology, College of Agriculture, CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur-176062 (HP)4. Dr Souvik Ghosh Scientist-SS (Agril. Extension) Directorate of Water Management (ICAR) Chandrasekharapur, P.O.: Rail Vihar Bhubaneswar, Odisha-751023.
Panjabrao Deshmukh Outstanding Woman Scientist Award 2011	<ol style="list-style-type: none">1. Dr Anuradha Agrawal Senior Scientist National Bureau of Plant Genetic Resources Pusa Campus New Delhi-110 0122. Dr Vijayakumari Narukulla P.Box No.464, Shankar Nagar, P.O. Nagpur- 440 010 (Maharashtra)
Bharat Ratna Dr.C.Subramaniam Award for Outstanding Teachers 2011	<ol style="list-style-type: none">1. Dr Samiayyan Kumarasamy, Prof. of Agril. Entomology Deptt. of Agril. Entomology, Agril. College and Res. Instt., TNAU, Coimbatore-641003, Tamil Nadu2. Dr Satya Veer Singh Malik Principal Scientist Division of Veterinary Public Health, Indian Veterinary Research Institute Izatnagar,-243122,UP3. Dr V.K. Bhatia, Director, IASRI, Library Avenue, Pusa, New Delhi-110 0124. Rajput Thakur Bahadur Singh WTC, IARI, New Delhi 110 012



AWARD	AWARDEES
ICAR Team Research Award 2011	<ol style="list-style-type: none"> 1. Dr G.C. Munda 2. Dr A.S. Panwar 3. Dr P.K.Ghosh 4. Dr D.P. Patel 5. Dr Anup Das 6. Dr B.U. Choudhury 7. Dr A.K. Tripathi 8. Dr S.V. Ngachan Division of NRM, ICAR Research Complex for NEH Region, Umroi Road, Umiam-793103, Meghalaya <ol style="list-style-type: none"> 1. Dr Akhilesh Nandan Mishra 2. Dr Hira Nand Pandey 3. Dr Pradeep Kumar Verma 4. Dr Sakuru Venkata Sai Prasad 4. Dr Mohan Yadao Samdur 5. Dr Anil Kumar Singh 6. Dr Sita Ram Kantwa IARI, Regional Station, Indore-452001(MP)
Fakhruddin Ali Ahmed Award for Outstanding Research in Tribal Farming Systems 2011	<p>Dr Samiran Bandyopadhyay Scientist NRC on Yak</p> <ol style="list-style-type: none"> 1. Dr K.K. Baruah, Director 2. Dr Tapas Kumar Biswas National Research Centre on YAK, ICAR, Dirang, West Kameng Dist. Arunachal Pradesh, 790101 India. <p>Dr Duniya Ram Singh Principal Scientist & Head</p> <ol style="list-style-type: none"> 1. Dr Shrawan Singh 2. Dr Jai Sunder 3. Dr Subhash Chand Division of Horticulture & Forestry Central Agricultural Research Institute, P.B. No. 181, Garacharma, Port Blair-744101, Andaman & Nicobar Islands
Jawaharlal Nehru Award for P.G. Outstanding Doctoral Thesis Research in Agricultural and Allied Sciences 2011	<p>Dr Tanmay Kumar Koley (Horticulture) Division of Vegetable Production Indian Institute of Vegetable Research, Varanasi-221305 (UP)</p> <p>Dr Manoj Kumar (NRM) Division of NRM (Soil Science) ICAR Research Complex for NEH Region Umiam, Meghalaya-793103</p> <p>Dr Shailesh Saurabh (Fisheries Sciences) Regional Research Centre Central Institute of Freshwater Aquaculture (<i>Indian Council of Agricultural Research</i>) Hessarghatta Lake P.O. Bengaluru-560 089</p> <p>Dr Sivasakthi Devi Thambusamy (Social Science) D/o. P. Thambusamy 48/47 Perumal koil street, Melpattam Bakkam & post, Panruti (TK), Cuddalore district-607104, Tamil Nadu</p> <p>Dr (Mrs) Manjinder Sharma (Animal Science) Assistant Professor Dept. Veterinary Physiology, Nagpur Veterinary College, Seminary Hills, Nagpur-06 (Maharashtra)</p> <p>Dr Raj Kumar Duary (Animal Science) Assistant Professor Dept. of Food Engineering and Technology, Tezpur University, Nappam, Sonitpur, Asom-784028</p> <p>Dr Shinoj Subramannian (Agricultural Engineering) Programme Co-ordinator/ Senior Scientist KVK(Ernakulam), Central Marine Fisheries Research Institute (ICAR), Narakkal Post, Ernakulam, Kerala-682505</p> <p>Dr Rama Chandra CT (Agricultural Engineering) Assistant Professor Deptt. of Processing and Food Engineering College of Agril. Engg. University of Agril. Sciences, P.B.No.:329, Raichur-584102, Karnataka</p> <p>Dr R.Nagaraja Reddy (Crop Sciences) Directorate of Medicinal and Aromatic Plants Research, Boriavi, Anand-387 310, Gujarat</p>

AWARD	AWARDEES
	<p>Dr Fand Babasaheb Bhaskar (Crop Protection) Scientist (Agril. Entomology) National Institute of Abiotic Stress Management (ICAR), Malegaon, Baramati-413115, Pune, Maharashtra</p> <p>Dr Asit Kumar Mandal (Crop Protection) Scientist (Plant Pathology) Directorate of Seed Research, Vill. Kushmaur, P.O. Kaithauli, Dist. Mau, Uttar Pradesh-275101</p> <p>Dr Rakesh Kumar (Fisheries Sciences) Scientist(SS) Microbiology, Fermentation & Biotechnology Division, Central Institute of Fisheries Technology Matsyapuri P.O. Cochin-682029</p> <p>Dr P. Thilakar (Social Science) Plot No. 110, First Street Ganapathy Colony, St. Thomas Mount, Chennai-600016, Tamil Nadu</p> <p>Dr Swarup Kumar Parida (Biotechnology) National Institute of Plant Genome Research (NIPGR), Aruna Asaf Ali Marg, P.O. Box.No.10531 New Delhi-110067, India</p>
<p>Jagjivan Ram Abhinav Kisan Puruskar/Jagjivan Ram Innovative Farmer Award (National/Zonal) 2011 (National)</p>	<p>Sh. Mohinder Singh (National) Vill.+P.O.Rasina Distt : Kaithal (Haryana)</p>
<p>Jagjivan Ram Abhinav Kisan Puruskar/Jagjivan Ram Innovative Farmer Award (National/Zonal) 2011(Zonal)</p>	<ol style="list-style-type: none"> Shri Vilas Tijare (Zone-VII) Village-Borikhurd,Post-Gokalpur via Ari, Block-Barghat, District-Seoni, State-Madhya Pradesh Sh. Ganpat Lal Nagar (Zone-VI) Shri Balaji Hi-tech Herbal Farm Village-Gulabpura, Post-Palayatha, Tehsil-Anta, District-Baran (Rajasthan)-325 202 Shri Rajvinder Pal Singh Rana (Zone I) S/o Capt. Dilbagh Singh, VPO Mandiani, Via Mullanpur, Distt. Ludhiana, Punjab Shri Udhav Asaram Khedekar (Zone-V) At. Shivni, Post Ner Tq. & Dist. Jalna, Pin-431203 (MS) Shri Santosh Kumar (Zone-II) Vill. Shekhwara, P.O.- Zindapur, P.S.-M.U. Bodh-Gaya, Dist.- Gaya-824234 Shri V. Tuime lolly (Zone-III) Village- Kachai, B.P.O. Kachai, Ukhrul District Manipur-175 142 Shri Dev Narayan Patel (Zone-IV) Village-Bachan Khera Post—Adampur januvi, District-Lucknow (U.P)
<p>N.G. Ranga Farmer Award for Diversified Agriculture 2011</p>	<p>Shri S. Gurcharan Singh Mann S/o S. Jagroop Singh Mann V.P.O.-Tungwali, District Bathinda-151101, Punjab</p>
<p>Dr Rajendra Prasad Puruskar for technical books in Hindi in Agricultural and Allied Sciences 2011</p>	<p>Dr Rishi Pal Singh Director Seed & Farms Directorate of Seed & Farms, Birsa Agricultural University, Kanke, Ranchi-834006,Jharkhand</p> <p>Smt. Supriya Singh Sh.Shrinivas Giri</p>
<p>Vasantrao Naik Award for Research Application in Agriculture 2011</p>	<p>Dr S.K. Sharma Officer incharge, AICRP on Dryland Agriculture (ORP), Dryland Farming Research Station, Arjia (Maharana Pratap University of Agriculture & Technology, Udaipur) Bhilwara, (Rajasthan)-301 101</p> <p>Dr A.K. Kothari Dr R. K. Sharma Dr S.N. Sodani Dr G. Ravindra Chary Dr P.K. Mishra</p>
<p>Swami Sahajanand Saraswati Outstanding Extension Scientist Award 2011</p>	<ol style="list-style-type: none"> Dr Kadirvel Govindasamy Senior Scientist, Division of Animal Reproduction ICAR Research Complex for NEH Region Umiam (Barapani, PO), Meghalaya-793 103



AWARD	AWARDEES
Chaudhary Charan Singh Award for excellence in Journalism in Agricultural Research and Development 2011	2. Dr Sushil Kumar Principal Scientist Directorate of Weed Science Research Maharajpur Adhartal, Jabalpur-482004 (MP)
Zonal Best Krishi Vigyan Kendra Award 2011	Shri Harendra Kumar Garg 123B, Pocket A, Dilshad Garden, Delhi National : Krishi Vigyan Kendra (PIRENS) Babhaleshwar-413737 Zone I : KVK Kaithal-136027 Zone II : KVK,Ramkrishna Ashram, Nimpith-743338 Zone III : Divyodaya KVK, Khowai,West Tripura-799207 ZoneIV : KVK, Khajuri Bagh, Saharanpur-247001 Zone V : KVK Durgapur (Badnera), Amravati-444701 Zone VI : KVK, Anta Baran-325202 Zone VII : KVK, RVSKVV Farm, Jhabua-457661 Zone VIII : KVK, Kozhikode, Calicut -673528

APPENDIX 12

RESULTS-FRAMEWORK DOCUMENT FOR DEPARTMENT OF AGRICULTURAL RESEARCH AND EDUCATION (2011-2012)



RFD
Results-Framework Document
For
Department of Agricultural Research and Education
(2011-2012)

Section I
Vision, Mission, Objectives and Functions

Vision

Harnessing science to ensure comprehensive and sustained physical, economic and ecological access to food and livelihood security to all Indians, through generation, assessment, refinement and adoption of appropriate technologies.

Mission

Sustainability and growth of Indian agriculture by interfacing agricultural research, higher education and front-line extension initiatives complemented with institutional, infrastructural and policy support that will create efficient and effective science-harnessing tool.

Objectives

1. Strengthening frontier research in identified areas/programmes and quality seed production
2. Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources
3. Improving natural resource management and input-use efficiency
4. Development of vaccines and disease diagnostics
5. Post-harvest management/farm mechanization and value-addition
6. IP management and commercialization of technologies
7. Strengthening of higher agricultural education
8. Strengthening of agricultural extension system and promoting gender issues

Function

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

SECTION 2

Inter-se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value						
						Excellent (100%)	Very Good (90%)	Good (80%)	Fair (70%)	Poor (60%)		
[1] Strengthening frontier research in identified areas/programmes and quality seed production	13	[1.1]	Facilities for frontier areas of research	[1.1.1]	Number of facilities developed/established	4	3	2	1	0		
		[1.2]	Evaluation of improved varieties for suitable crop husbandry practices	[1.2.1]	Number of breeding lines evaluated	2100	1800	1500	1000	800		
		[1.3]	Crop nutrition and productivity response	[1.3.1]	Number of varieties tested for productivity	55	50	45	40	35		
		[1.4]	Production of breeders' seed, other seeds and planting material	[1.4.1]	Quantity of breeders' seed produced annually	8200	8000	7500	7000	6000		
	[2] Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources	6	[2.1]	Evaluation, characterization and registration of new breeds/population	[2.1.1]	Quantity of other classes of seeds produced annually	46	43	40	35	30	
			[2.2]	In-situ/ex-situ conservation of important breeds	[2.2.1]	Quantity of planting material produced annually	40	36	32	28	24	
			[2.3]	Fish resources assessment and eco-system monitoring	[2.3.1]	Number of new breeds/population characterized/registered	5	4	3	2	1	
		[3] Improving natural resource management and input use efficiency	17	[2.2]	In-situ/ex-situ conservation of fish	[2.2.1]	In-situ/ex-situ conservation of plants	2100	1700	1500	1000	800
				[2.2]	In-situ/ex-situ conservation of poultry	[2.2.2]	In-situ/ex-situ conservation of fish	3	2	1	0	0
				[2.3]	Number of explorations/surveys carried out	[2.2.3]	In-situ/ex-situ conservation of livestock/poultry	5	4	3	2	1
[3.1]	Integrated nutrient management (INM)	[2.3.1]	Number of explorations/surveys carried out	12	10	6	5	4				
[3.2]	Development of GIS based aquatic resource database	[2.3.2]	Development of GIS based aquatic resource database	2	1	0	0	0				
[3.1.1]	Developing GIS based district/block level soil fertility maps	[3.1.1]	Developing GIS based district/block level soil fertility maps	15	13	12	10	9				
[3.1.2]	Developing INM packages for different Agro-ecoregion of the country	[3.1.2]	Developing INM packages for different Agro-ecoregion of the country	5	4	3	2	1				

Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent (100%)	Very Good (90%)	Good (80%)	Fair (70%)	Poor (60%)
			[3.1.3] Organizing training and demonstrations	Number	1.7	20	18	16	14	12
		[3.2] Integrated water management (IWM)	[3.2.1] Technologies for enhancing water-use efficiencies	Number	1.7	5	4	3	2	1
			[3.2.2] Technologies for water harvesting storage and groundwater recharge	Number	1.7	6	5	3	2	1
			[3.2.3] Models/DSS for multiple uses of water	Number	0.85	3	2	1	0	0
			[3.2.4] Organizing training and demonstrations	Number	1.7	15	13	12	10	9
		[3.3] Climate resilient agriculture initiative	[3.3.1] Awareness building amongst stakeholders through trainings/demonstrations	Number	1.7	28	25	22	20	18
			[3.3.2] Human resource development and capacity building	Number	1.53	7	6	5	4	3
			[3.3.3] Testing crop varieties for climate resilience at different locations	Number	1.02	70	65	50	40	30
[4] Development of vaccines and disease diagnostics	5	[4.1] Development of diagnostic kits and vaccines and their field validation	[4.1.1] Number of diagnostic kits/vaccines developed and validated	Number	5.0	7	6	4	2	1
[5] Post-harvest management/farm mechanization and value-addition	5	[5.1] Post-harvest management to reduce processing and handling losses	[5.1.1] Development of processes and value-added products	Number	2.0	13	12	10	8	6
		[5.2] Development/refinement of tool and equipment for crop production and fabrication of prototypes	[5.2.1] Machines/tools developed/refined	Number	2.0	16	15	13	11	8
[6] IP management and commercialization of technologies	9	[6.1] Partnership development, including licensing of ICAR technologies	[5.2.2] Prototypes fabricated	Number	1.0	4100	4000	3500	3000	2000
		[6.2] Patents and other IPR titles	[6.1.1] Partners (private sector) identified	Number	4.5	30	25	20	15	10
		[7.1] Financial support for strengthening of AUs	[6.2.1] Applications filed	Number	4.5	95	90	80	70	60
[7] Strengthening of higher agricultural education	17	[7.1] Financial support for strengthening of AUs	[7.1.1] Financial support provided	Rupees in crore	2.55	360	350	275	250	225

Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent (100%)	Very Good (90%)	Good (80%)	Fair (70%)	Poor (60%)
[8] Strengthening of agricultural extension system and promoting gender issues	13	[7.2] Establishment of experiential learning units	[7.2.1] E-units established	Number	1.7	25	22	20	18	15
		[7.3] Accreditation/extension of accreditation of agricultural universities	[7.3.1] Number of universities granted accreditation/extension of accreditation	Number	2.55	9	8	6	5	4
		[7.4] Grant of ICAR International fellowships to Indian/foreign students	[7.4.1] Number of fellowships awarded	Number	2.38	13	12	10	8	6
		[7.5] Grant of JRF and SRF to students	[7.5.1] Number of fellowships granted per year	Number	3.4	650	625	575	500	475
		[7.6] Capacity building and faculty upgradation	[7.6.1] Number of summer/winter schools organized	Number	1.7	25	22	20	18	16
		[7.7] Publication of research papers in impact journals of NAAS	[7.6.2] Number of teachers trained	Number	1.7	1100	1000	800	700	600
		[7.7.1] Number of papers published in impact journals of NAAS having impact factor 5 and above	[7.7.1] Number of papers published in impact journals of NAAS having impact factor 5 and above	Number	1.02	25	20	15	10	5
[8] Strengthening of agricultural extension system and promoting gender issues	13	[8.1] Establishment of demonstration/training facilities for soil and water testing, rain water harvesting, etc.	[8.1.1] Additional KVKs with such facilities	Number	3.47	200	180	160	140	120
		[8.2] Technology assessment through on-farm trials	[8.2.1] Number of technologies assessed	Number	2.6	20	18	16	14	12
		[8.3] Establishment of new KVKs	[8.3.1] Number of new KVKs to be established	Number	2.6	16	15	13	11	10
		[8.4] Technology showcasing	[8.4.1] Demonstrations/training organized	Number	2.6	100	90	80	70	60
		[8.5] Promotion of technologies covering gender concerns	[8.5.1] Gender-related technology promotion programmes conducted	Number	1.73	20	18	16	14	12
* Efficient functioning of the RFD System	3	Timely submission of Draft for approval	On-time submission	Date	2.00	07/03/2011	08/03/2011	09/03/2011	10/03/2011	11/03/2011
		Timely submission of results	On-time submission	Date	1.00	01/05/2012	03/05/2012	04/05/2012	05/05/2012	06/05/2012
* Improving internal efficiency/responsiveness/service delivery of Ministry/Department	10	Implementation of Sevottam	Re-submission of revised draft of Citizens'/Clients' Charter	Date	2.00	16/01/2012	18/01/2012	20/01/2012	23/01/2012	25/01/2012
			Independent Audit of Implementation of Grievance Redress Mechanism	%	2.00	100	90	80	70	60

Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value				
						Excellent (100%)	Very Good (90%)	Good (80%)	Fair (70%)	Poor (60%)
		Ensure compliance with Section 4(1) (b) of the RTI Act, 2005	No. of items on which information is uploaded by 10 February 2012	No	2.00	16	15	14	13	12
		Identify potential areas of corruption related to departmental activities and develop an action plan to mitigate them	Finalize an action plan to mitigate potential areas of corruption	Date	2.00	26/03/2012	27/03/2012	28/03/2012	29/03/2012	30/03/2012
		Develop an action plan to implement ISO 9001 certification	Finalize an action plan to implement ISO 9001 certification	Date	2.00	16/04/2012	17/04/2012	18/04/2012	19/04/2012	20/04/2012
* Ensuring compliance to the financial accountability framework	2	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	%	0.50	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	%	0.50	100	90	80	70	60
		Early disposal of pending ATNs on Audit Paras of C&AG reports presented to Parliament before 31.3.2011	Percentage of outstanding ATNs disposed off during the year	%	0.50	100	90	80	70	60
		Early disposal of pending ATRs on PAC reports presented to Parliament before 31.3.2011	Percentage of outstanding ATRs disposed off during the year	%	0.50	100	90	80	70	60

SECTION 3

Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
[1] Strengthening frontier research in identified areas/programmes and quality seed production	[1.1] Facilities for frontier areas of research	[1.1.1] Number of facilities developed/established	Number	0	0	3	2	2
	[1.2] Evaluation of improved varieties for suitable crop husbandry practices	[1.2.1] Number of breeding lines evaluated	Number	1800	1800	1800	2100	2200
	[1.3] Crop nutrition and productivity response	[1.3.1] Number of varieties tested for productivity	Number	40	40	50	50	60
	[1.4] Production of breeders' seed, other seeds and planting material	[1.4.1] Quantity of breeders' seed produced annually	Tonnes	8000	8000	8000	8200	8500
[2] Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources	[2.1] Evaluation, characterization and registration of new breeds/population	[1.4.2] Quantity of other classes of seeds produced annually	Thousand tonnes	40	40	43	46	48
		[1.4.3] Quantity of planting material produced annually	Number in lakhs	30	35	36	45	50
		[2.1.1] Number of new breeds/population characterized/registered	Number	0	2	4	4	5
	[2.2] <i>In-situ/ex-situ</i> conservation of important breeds	[2.2.1] <i>In-situ/ex-situ</i> conservation of plants	Number	1800	2000	1700	1900	2100
		[2.2.2] <i>In-situ/ex-situ</i> conservation of fish	Number	0	2	2	3	5
		[2.2.3] <i>In-situ/ex-situ</i> conservation of livestock/poultry	Number	2	2	4	4	4
[2.3] Fish resources assessment and eco-system monitoring	[2.3.1] Number of explorations/surveys carried out	Number	0	10	10	15	20	
	[2.3.2] Development of GIS based aquatic resource database	Number	1	1	1	2	2	
[3] Improving natural resource management and input-use efficiency	[3.1] Integrated nutrient management (INM)	[3.1.1] Developing GIS based district/block level soil fertility maps	Number	0	10	13	16	20

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
		[3.1.2] Developing INM packages for different Agro-eco region of the country	Number	0	4	4	5	5
		[3.1.3] Organizing training and demonstrations	Number	0	15	18	20	25
	[3.2] Integrated water management (IWM)	[3.2.1] Technologies for enhancing water-use efficiencies	Number	0	4	4	5	5
		[3.2.2] Technologies for water harvesting storage and groundwater recharge	Number	0	5	5	5	5
		[3.2.3] Models/DSS for multiple uses of water	Number	0	2	2	3	3
		[3.2.4] Organizing training and demonstrations	Number	0	10	13	15	20
	[3.3] Climate resilient agriculture initiative	[3.3.1] Awareness building amongst stakeholders through trainings/demonstrations	Number	0	0	25	28	30
		[3.3.2] Human resource development and capacity building	Number	0	0	6	10	12
		[3.3.3] Testing crop varieties for climate resilience at different locations	Number	-	-	65	68	70
[4] Development of vaccines and disease diagnostics	[4.1] Development of diagnostic kits and vaccines and their field validation	[4.1.1] Number of diagnostic kits/ vaccines developed and validated	Number	5	8	6	6	6
[5] Post-harvest management/ farm mechanization and value-addition	[5.1] Post-harvest management to reduce processing and handling losses	[5.1.1] Development of processes and value-added products	Number	12	12	12	15	20
	[5.2] Development/refinement of tool and equipment for crop production and fabrication of prototypes	[5.2.1] Machines/tools developed/ refined	Number	13	14	15	17	18
[6] IP management and commercialization of technologies	[6.1] Partnership development, including licensing of ICAR technologies	[5.2.2] Prototypes fabricated	Number	2088	4000	4000	4500	5000
		[6.1.1] Partners (private sector) identified	Number	16	20	25	30	35

Objective	Action	Success Indicator	Unit	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
	[6.2] Patents and other IPR titles	[6.2.1] Applications filed	Number	58	70	90	110	130
[7] Strengthening of higher agricultural education	[7.1] Financial support for strengthening of AUs	[7.1.1] Financial support provided	Rupees in crores	250	350	350	350	375
	[7.2] Establishment of experiential learning units	[7.2.1] E-units established	Number	20	20	22	30	35
	[7.3] Accreditation/extension of accreditation of agricultural universities	[7.3.1] Number of universities granted accreditation/extension of accreditation	Number	8	8	8	10	10
	[7.4] Grant of ICAR International fellowships to Indian/foreign students	[7.4.1] Number of fellowships awarded	Number	6	12	12	13	14
	[7.5] Grant of JRF and SRF to students	[7.5.1] Number of fellowships granted per year	Number	600	625	625	640	650
	[7.6] Capacity building and faculty upgradation	[7.6.1] Number of summer/winter schools organized	Number	0	0	22	30	35
	[7.7] Publication of research papers in impact journals of NAAS	[7.6.2] Number of teachers trained	Number	950	1000	1000	1000	1000
		[7.7.1] Number of papers published in impact journals of NAAS having impact factor 5 and above	Number	15	18	20	22	25
[8] Strengthening of agricultural extension system and promoting gender issues	[8.1] Establishment of demonstration/training facilities for soil and water testing, rain water harvesting, etc.	[8.1.1] Additional KV/Ks with such facilities	Number	0	58	180	200	0
	[8.2] Technology assessment through on-farm trials	[8.2.1] Number of technologies assessed	Number	10	15	18	30	40
	[8.3] Establishment of new KV/Ks	[8.3.1] Number of new KV/Ks to be established	Number	3	6	15	16	18
	[8.4] Technology showcasing	[8.4.1] Demonstrations/training organized	Number	70	75	90	110	130
	[8.5] Promotion of technologies covering gender concerns	[8.5.1] Gender-related technology promotion programmes conducted	Number	11	12	18	20	25
* Efficient functioning of the RFD System	Timely submission of draft for approval	On-time submission	Date	0	5/3/2010	6/3/2011	-	-

Objective Action	Success Indicator	Unit	Actual	Actual Value for FY 09/10	Actual Value for FY 10/11	Target Value for FY 11/12	Projected Value for FY 12/13	Projected Value for FY 13/14
* Improving internal efficiency/responsiveness/service delivery of Ministry/Department	Timely submission of results	On-time submission	Date	-	27/4/2011	3/5/2012	-	-
	Implementation of Sevottam	Re-submission of revised draft of Citizens'/Clients' Charter	Date	-	-	20/12/2011	-	-
		Independent audit of implementation of Grievance Redress Mechanism	%	-	-	95	-	-
		Ensure compliance with Section 4(1) (b) of the RTI Act, 2005	No	-	-	15	-	-
		Identify potential areas of corruption related to departmental activities and develop an action plan to mitigate them	Date	-	-	15/02/2012	-	-
		Develop an action plan to implement ISO 9001 certification	Date	-	-	15/02/2012	-	-
		Timely submission of ATNS on Audit Paras of C&AG	%	-	15	90	-	-
		Timely submission of ATRs to the PAC Sectt. on PAC reports	%	-	100	90	-	-
		Early disposal of pending ATNs on Audit Paras of C&AG reports presented to Parliament before 31.3.2011	%	-	46	90	-	-
		Early disposal of pending ATRs on PAC reports presented to Parliament before 31.3.2011	%	-	100	90	-	-

*Mandatory (Objective(s))

SECTION 4

Description and Definition of Success Indicators and Proposed Measurement Methodology

Objective 1. Strengthening frontier research in identified areas/programmes and quality seed production

With respect to strengthening frontier research in identified areas, initiation of new facilities/ institutions, human resource development addressing emerging issues are important criteria for promoting research and education. Performance monitoring for quality of students/publications are indicators. Developing high-yielding varieties, requiring less input like fertilizers, water and pesticides and having tolerance to biotic and abiotic stresses are important.

The genetic diversity of various horticultural crops will be collected from different eco-regions, characterized and utilized to develop varieties for higher yield, quality and tolerance to biotic and abiotic stresses. The productivity of various horticultural crops will be improved for food, nutritional and ecological security. The action points/successful production of quality seeds and planting materials as well as development of value-added products.

Objective 2. Assessment, evaluation and conservation of plant, fish and animal genetic resources

With respect to conservation of genetic resources for sustainable use, it is envisaged to conserve plant, microbe genetic resources in the repository, evaluation and further utilization of resources for improving yield in a sustainable manner. Evaluation, characterization and registration will involve development of phenotypic descriptors with supportive data on its production parameters with photographic evidence/proofs through NGOs/SAUs/State Departments, etc. The registration will involve a denoted departmental procedure and thereby allotment of accession number. The *in-situ* conservation will be indicated by establishment of herds/flocks in the natural habitat of the breed with specified minimum number of breeding population and their followers involving farmers, NGOs and other developmental agencies, whereas the *ex-situ* conservation will be in the form of cryopreservation of semen/DNA/somatic cells/embryos.

To enhance fish production and productivity on a sustainable basis from the available resources, and to address the issues and strategies to overcome the critical research gaps in realizing the full production potential from fisheries and aquaculture sector, the research activities have been consolidated. It is expected that by undertaking these programmes, there would be an increase in fish production, conservation of resources, more opportunities for livelihood and employment generation. These strategies and restructuring initiatives are aimed at identifying priorities for focused research to achieve the set targets and ensure accountability in converting outlays into outputs and outcomes, better returns on investments, optimum utilization of resources to achieve the vision, Fish for All.

Objective 3. Improving natural resource management and input-use efficiency

With respect to improving soil health and water productivity, integrated nutrient and water management are essential. The action points/success indicators cover developing GIS based soil fertility maps, integrated nutrient management packages, enhancing water storage and ground water recharge and multiple uses of water. Emphasis will specifically be on climate resilient agriculture through training/demonstration of technologies and capacity building.

Objective 4. Development of vaccines and disease diagnostics

The production of diagnostic kits and vaccines would involve delineation of process (processes). The number of prophylactics developed, their field validation and control of economically important livestock and fish diseases would be the indicators.

Objective 5. Post-harvest management/farm mechanization and value-addition

Post-harvest management and value-addition to reduce post-harvest losses and develop prototypes for various agricultural operations to enhance ease in farm operation and improve productivity are success indicators.

Objective 6. IP management and commercialization of technologies

With respect to commercialization of technologies and promoting public-private partnership, it is envisaged to bring commercial ethos in agricultural research. Indicators for commercialization of technologies, promoting public-private partnership, and protection of intellectual property rights will be determined by the commercialization through partnership development, including licensing of ICAR technologies. The increasing numbers over the years may indicate a higher emphasis on technology transfer through enterprises thereby; contributing to larger adoption and improved socio-economic impact of ICAR technologies.

Objective 7. Strengthening of higher agricultural education

With respect to strengthening of higher agricultural education, the success will be measured from the indicator, the number of universities having developed appropriate e-learning tools and resources. Similarly, accreditation/extension of accreditation of agricultural universities will require number of universities granted accreditation/extension of accreditation; Grant of ICAR International fellowships to Indian and foreign students, and JRF and SRF, as applicable, will cover number of such fellowships awarded. However, such numbers of grants will also depend upon the availability of competent candidates for the fellowships. Capacity building and faculty upgradation of teachers will be measured from the number of teachers trained per year.

Objective 8. Strengthening of agricultural extension system and promoting gender issues

The success indicators with respect to operation of e-connectivity of KVKs are the actual number of e-connectivity facilities created. The success indicators of the establishment of demonstration/training facilities for soil and water testing, rain water harvesting etc. indicates the actual number of KVKs provided with these facilities during the period. Actual number of new KVKs established during the period is the success indicator which is measured in terms of the target achieved against the target set during the year. Demonstration and trainings organized are measured with the actual numbers of such programmes/activities undertaken by the KVKs. Regarding support for promoting gender issues is measured through the success indicators of actual number of gender related technology promotion programmes to reduce drudgery in farm operation by women.

**SECTION 5****Specific Performance Requirements from other Departments**

1. Strengthening of agricultural universities will depend on their initiative/responsiveness, including the timely implementation of plans by the respective SAUs.
2. The quantity of breeders' seed produced is based on the quantity indented by Department of Agriculture and Cooperation, which in turn collects indents from various seed agencies including State Departments of Agriculture.
3. Establishment of KVKs and strengthening of existing KVK shall depend upon timely availability of sufficient funds and other resources and cooperation from state departments and local bodies, and a smooth implementation by the agencies managing KVKs.
4. Technology adoption would depend upon the proactive role of development departments namely DAC, DAHD&AF and SAUs etc.
5. Financial support as per EFC/SFC allocation of institutes under Horticulture Division including AICRP/Network projects.
6. Support from SAUs, KVKs and line department for promotion of adoption of technologies developed by the institutes.
7. The major role will be of collecting detailed information on various parameters as per the formats developed by NBAGR, Karnal, hence the SAUs, AH departments, NGOs and actual animal keepers will play a key role in providing the desired information.
8. The Fisheries Division is working in close coordination and linkages with the Ministry of Agriculture, Ministry of Commerce, Ministry of Science and Technology, Ministry of Environment and Forest, Ministry of Earth Sciences, Ministry of Food Processing etc. through interface and participation in various committees and meetings addressing the researchable issues in fisheries and aquaculture for formulating the strategies and guidelines for policy interventions to facilitate increasing fish production and productivity. Supports from all these agencies and organizations are essential for achieving the mission of providing required food, nutritional, socio-economic and livelihood security.
9. The area requires sound commitment for monitoring support for production of diagnostic vaccines, whereas for validation under field conditions, a strong commitment and participation of state agencies will be required. (State AH departments, Private Industry for up-scaling)
10. Financial support as per SFC/EFC allocation of different NRM institutes including AICRP/network projects.
11. Support from the associated SAUs/line departments for promoting adoption of developed technologies.
12. The establishment of new Central Universities will depend upon the support/timely availability of sufficient funds from Central Government and other resources in terms of land acquisitions from the State Government.
13. Regarding the achievements related to establishment of KVKs it is submitted that, receipt of suitable proposals from various organizations interested in opening the KVKs and availability of suitable land in the districts where it was not opened is very important.
14. The success with respect to promotion of technologies covering gender issues requires the collaboration of AICRP centres, Agricultural Engineering Division and the line departments are important in generating suitable gender data base, assessment of the technologies keeping in view the gender perspectives and their dissemination.

SECTION 6

Outcome/Impact 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	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14
1. Enhanced agricultural productivity	DAHDF, DAC, Planning Commission, Ministry of Environment and Forests, Ministry of Panchayati Raj, Ministry of Rural Development and State Governments	Increase in agricultural productivity	%	0	0	2	2	2
2. Enhanced milk, egg, meat and fish productivity	DAHDF, Ministry of Panchayati Raj, Ministry of Rural Development, State Governments and NGOs	Increase in milk productivity Increase in egg productivity Increase in meat productivity Increase in fish productivity	%	0	0	3.8	4	4
3. Enhanced availability of quality human resources for agricultural research and development activities	SAUs, SVUs, Ministry of Panchayati Raj, Ministry of Rural Development and State Governments	Increase in Graduates/ PG students passed out and capacity building	%	0	0	5	5	5
4. Enhanced rural livelihood security	DAC, DAHDF, SAUs, SVUs, Ministry of Panchayati Raj, Ministry of Rural Development, Ministry of Fertilizers and State Governments	Decrease in rural poverty	%	0	0	TBD	TBD	TBD
5. Improved nutritional security	DST, DBT, ICMR, Ministry of Food Processing, Ministry of Panchayati Raj, Ministry of Rural Development and State Governments	Increase in farm income Increase in per capita availability of agricultural products	%	0	0	TBD	TBD	TBD

APPENDICES



Outcome/impact of Department/Ministry	Jointly responsible for influencing this outcome /impact with the following department (s) /ministry(ies)	Success Indicator	Unit	FY 09/10	FY 10/11	FY 11/12	FY 12/13	FY 13/14
6. Enhancing frontier research/programmes		Technical papers published in recognized journals	Number	0	0	4000	4500	5000
		New varieties developed	Number	0	0	60	70	80
7. Commercialization of technologies	SAU/DU	Research converted into commercialized technology	Number	0	0	10	10	10

Performance Evaluation Report

S.No.	Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value					Performance		
							Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%	Achievement	Raw Weighted Score Raw Score	
1	Strengthening frontier research in identified areas/programmes and quality seed production	13	Facilities for frontier areas of research	Number of facilities developed/established	Number	0.87	4	3	2	1	0	4	100	0.87
							2100	1800	1500	1000	800	3000	100	2.6
							55	50	45	40	35	60	100	1.73
							8200	8000	7500	7000	6000	9800	100	2.6
2	Assessment, evaluation and conservation of plant, fish, microbes and animal genetic resources	6	Crop nutrition and productivity response	Number of varieties tested for productivity	Number	1.73	55	50	45	40	35	60	100	1.73
							8200	8000	7500	7000	6000	9800	100	2.6
							46	43	40	35	30	53	100	2.6
							40	36	32	28	24	105	100	2.6
3	Improving natural resource management and input-use efficiency	17	Evaluation, characterization and registration of new breeds/population	Number of new breeds/population characterized/registered	Number	1.29	5	4	3	2	1	32	100	1.29
							2100	1700	1500	1000	800	6386	100	0.86
							3	2	1	0	0	4	100	0.43
							5	4	3	2	1	5	100	0.86
			Fish resources assessment and eco-system monitoring	Number of explorations/surveys carried out	Number	1.71	12	10	6	5	4	146	100	1.71
							2	1	0	0	0	19	100	0.86
							15	13	12	10	9	15	100	2.55
							15	13	12	10	9	15	100	2.55

S.No.	Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value						Performance	
							Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%	Achievement	Raw Score	Weighted Raw Score
				Developing INM packages for different agro-eco region of the country	Number	2.55	5	4	3	2	1	9	100	2.55
				Organizing training and demonstrations	Number	1.7	20	18	16	14	12	24	100	1.7
				Technologies for enhancing water-use efficiencies	Number	1.7	5	4	3	2	1	9	100	1.7
				Technologies for water harvesting storage and groundwater recharge	Number	1.7	6	5	3	2	1	6	100	1.7
				Models/DSS for multiple uses of water	Number	0.85	3	2	1	0	0	3	100	0.85
				Organizing training and demonstrations	Number	1.7	15	13	12	10	9	49	100	1.7
				Awareness building amongst stake holders through trainings/demonstrations	Number	1.7	28	25	22	20	18	73	100	1.7
				Human resource development and capacity building	Number	1.53	7	6	5	4	3	43	100	1.53
				Testing crop varieties for climate resilience at different locations	Number	1.02	70	65	50	40	30	14	0	0
4	Development of vaccines and disease diagnostics	5	Development of diagnostic kits and vaccines and their field validation	Number of diagnostic kits/vaccines developed and validated	Number	5	7	4	2	1	11	100	5	
5	Post-harvest management/farm mechanization and value-addition	5	Post-harvest management to reduce processing and handling losses	Development of processes and value-added products	Number	2	13	12	10	8	6	50	100	2
				Development/refinement of tool and equipment for crop production and fabrication of prototypes	Number	2	16	15	13	11	8	17	100	2
6	IP management and commercialization of technologies	9	Partnership development, including licensing of ICAR technologies	Prototypes fabricated	Number	1	4100	4000	3500	3000	2000	4707	100	1
				Partners (private sector) identified	Number	4.5	30	25	20	15	10	136	100	4.5

S.No.	Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value					Performance				
							Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%	Achievement	Raw Score	Weighted Raw Score		
7	Strengthening of higher agricultural education	17	Patents and other IPR titles	Applications filed	Number	4.5	95	90	80	70	60	111	100	4.5		
			Financial support for strengthening of AUs	Financial support provided	Rupees in crores		2.55	360	350	275	250	225	486.89	100	2.55	
			Establishment of experiential learning units	E-units established	Number	1.7	25	22	20	18	15	15	106	100	1.7	
			Accreditation/extension of accreditation of agricultural universities	Number of universities granted accreditation/extension of accreditation	Number	2.55	9	8	6	5	4	4	5	70	1.78	
			Grant of ICAR International fellowships to Indian/foreign students	Number of fellowships awarded	Number	2.38	13	12	10	8	6	6	15	100	2.38	
			Grant of JRF and SRF to students	Number of fellowships granted per year	Number	3.4	650	625	575	500	475	475	660	100	3.4	
			Capacity building and faculty upgradation	Number of summer/winter schools organized	Number	1.7	25	22	20	18	16	16	35	100	1.7	
			Publication of research papers in impact journals of NAAS	Number of teachers trained	Number	1.7	1100	1000	800	700	600	600	1000	90	1.53	
				Number of papers published in impact journals of NAAS having impact factor 5 and above	Number	1.02	25	20	15	10	5	5	247	100	1.02	
			8	Strengthening of agricultural extension system and promoting gender issues	13	Establishment of demonstration/training facilities for soil and water testing, rain water harvesting, etc.	Additional KVKs with such facilities	Number	3.47	200	180	160	140	120	205	100
Technology assessment through on-farm trials	Number of technologies assessed	Number				2.6	20	18	16	14	12	12	32	100	2.6	
Establishment of new KVKs	Number of new KVKs to be established	Number				2.6	16	15	13	11	10	10	40	100	2.6	
Technology showcasing	Demonstrations/training organized	Number				2.6	100	90	80	70	60	60	224	100	2.6	
Promotion of technologies covering gender concerns	Gender-related technology promotion programmes conducted	Number				1.73	20	18	16	14	12	12	45	100	1.73	
Timely submission of draft for approval	On-time submission	Date				2	07/03/2011	08/03/2011	09/03/2011	10/03/2011	11/03/2011	11/03/2011	06/03/2011	100	2	
Timely submission of results	On-time submission	Date				1	01/05/2012	03/05/2012	04/05/2012	05/05/2012	06/05/2012	06/05/2012	19/04/2012	100	1	
Implementation of Sevottam	Resubmission of revised draft of Citizens'Clients' Charter	Date				2	16/01/2012	18/01/2012	20/01/2012	23/01/2012	25/01/2012	25/01/2012	28/12/2011	100	2	

S.No.	Objective	Weight	Action	Success Indicator	Unit	Weight	Target/Criteria Value					Performance		
							Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%	Achievement	Raw Score	Weighted Raw Score
				Independent audit of Implementation of Grievance Redress Mechanism	%	2	100	90	80	70	60	37.45	0	0
			Ensure compliance with Section 4(1) (b) of the RTI Act, 2005	No. of items on which information is uploaded by 10 February 2012	No	2	16	15	14	13	12	17	100	2
			Identify potential areas of corruption related to departmental activities and develop an action plan to mitigate them	Finalize an action plan to mitigate potential areas of corruption	Date	2	26/03/2012	27/03/2012	28/03/2012	29/03/2012	30/03/2012	06/02/2012	100	2
			Develop an action plan to implement ISO 9001 certification	Finalize an action plan to implement ISO 9001 certification	Date	2	16/04/2012	17/04/2012	18/04/2012	19/04/2012	20/04/2012	23/03/2012	100	2
	* Ensuring compliance to the Financial Accountability Framework	2	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	%	0.5	100	90	80	70	60	0	0	0
			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.	%	0.5	100	90	80	70	60	100	100	0.5
			Early disposal of pending ATNs on Audit Paras of C&AG reports presented to Parliament before 31.3.2011	Percentage of outstanding ATNs disposed off during the year	%	0.5	100	90	80	70	60	87.5	87.5	0.44
			Early disposal of pending ATRs on PAC reports presented to Parliament before 31.3.2011	Percentage of outstanding ATRs disposed off during the year	%	0.5	100	90	80	70	60	100	100	0.5

* Mandatory Objective(s)

Total composite score 95.48

Acronyms

AAU	: Assam Agricultural University	DU	: Deemed-to-be University
ACC	: Agra Canal Command	EGC	: East Ganga Canal
ADF	: Acid Digestible Fibre	EIA	: Enzyme Immuno Assay
AFLP	: Amplified Fragment Length Polymorphism	EICA	: Egyptian International Centre for Agriculture
AI	: Artificial Insemination	ELISA	: Enzyme-linked Immunosorbent Assay
AICRP	: All-India Coordinated Research Project	ENVI	: Environment, Public Health and Food Supply
AINP	: All-India Network Project	EPN	: Entomopathogenic Nematode
AKC	: Agribusiness Knowledge Centre	ETL	: Economic Threshold Level
AKI	: Agricultural Knowledge Initiative	EXPSS	: Expert System on Seed Spices
AKX	: Agribusiness Knowledge Exchange	FAO	: Food and Agriculture Organization
ANGRAU	: Acharya NG Ranga Agricultural University	FBS	: Fetal Bovine Serum
ARIC	: Agricultural Research Information Centre	FMD	: Foot-and-Mouth Disease
ARIS	: Agricultural Research Information System	FSH	: Follicle-stimulating Hormone
ARS	: Agricultural Research Service	FYM	: Farmyard Manure
ASRB	: Agricultural Scientists' Recruitment Board	GBNV	: Groundnut Bud Necrosis Virus
ATIC	: Agricultural Technology Information Centre	GBPUAT	: Govind Ballabh Pant University of Agriculture and Technology
ATK	: Anytime KVK	GCMS	: Gas Chromatography Mass Spectrometry
AU	: Agricultural University	GIS	: Geographical Information System
AUTM	: Association of Universities for Technology Management	GPA	: Global Plan of Action
BBF	: Broad Bed and Furrow	GPS	: Global Positioning System
BCM	: Billion Cubic Metres	GRD	: General Recommended Dose
BHU	: Banaras Hindu University	HAPA	: Hybridization-supplemented Apomixis Components Partitioning Approach
BLS	: Brucella Lumazine Synthase	HDPE	: High Density Polyethylene
BPD	: Business Planning Development	HPTLC	: High Performance Thin Layer Chromatography
BTV	: Bluetongue Virus	HRD	: Human Resource Development
CAFT	: Centres of Advanced Faculty Training	HTMA	: Hair Tissue Mineral Analysis
CAU	: Central Agricultural University	IAA	: Indole Acetic Acid
CAV	: Canine Adino Virus	IARI	: Indian Agricultural Research Institute
CCSHAU	: Chaudhary Charan Singh Haryana Agricultural University	IBR	: Infectious Bovine Rhinotracheitis
CeRA	: Consortium for e-Resources in Agriculture	ICAR	: Indian Council of Agricultural Research
CFB	: Complete Feed Block	ICARDA	: International Centre for Agricultural Research in Dry Areas
CGIAR	: Consultative Group on International Agricultural Research	ICMV	: Indian Cassava Mosaic Virus
CGM	: Corn Gluten Meal	ICRISAT	: International Crops Research Institute for Semi-Arid Tropics
CIFE	: Central Institute of Fisheries Education	ICT	: Information and Communication Technologies
CIMMYT	: Centro Internacional de Mejoramiento de Maize Trigo	IFS	: Integrated Farming System
CLCuV	: Cotton Leaf Curl Virus	IGKVV	: Indira Gandhi Krishi Vishwa Vidyalaya
CMS	: Cytoplasmic Male Sterile	ILWIS	: Integrated Land and Water Information System
CMV	: Cucumber Mosaic Virus	INM	: Integrated Nutrient Management
CN	: Chitosan	IPGRI	: International Plant Genetic Resources Institute
CP	: Crude Protein	IPM	: Integrated Pest Management
CPE	: Cumulative Pan Evaporation	IPR	: Intellectual Property Rights
CSF	: Classical Swine Fever	IRRI	: International Rice Research Institute
CTMC	: Central Technology Management Committee	IVDMD	: <i>In vitro</i> Dry Matter Digestibility
CPC	: Corn Protein Concentrate	IVF	: <i>In vitro</i> Fertilization
CWM	: Chicken Waste Meal	IVRI	: Indian Veterinary Research Institute
DARE	: Department of Agricultural Research and Education	JAU	: Junagarh Agricultural University
DAS	: Days After Sowing	JNKVV	: Jawaharlal Nehru Krishi Vishwa Vidyalaya
DBT	: Department of Biotechnology	KM	: Knowledge Management
DDG	: Deputy Director General	KVK	: Krishi Vigyan Kendra
DG	: Director General	LCV	: Leaf Curl Virus
DKMA	: Directorate of Knowledge Management in Agriculture	LDPE	: Low Density Polyethylene
DRWA	: Directorate of Research on Women in Agriculture	LMU	: Land Management Unit



ACRONYMS

MAP	: Modified Atmosphere Packaging	PSS	: Porcine Stress Syndrome
MAS	: Molecular Marker-assisted Selection	PTO	: Power Take Off
MNRE	: Ministry of New and Renewable Energy	RAU	: Rajendra Agricultural University/Rajasthan Agricultural University
MoU	: Memorandum of Understanding	RAWE	: Rural Awareness Work Experience
MPP	: Methane Production Potential	RDF	: Recommended Dose of Fertilizers
MPAUT	: Maharana Pratap University of Agriculture and Technology	RE	: Revised Estimate
MR	: Moderately Resistant	RFD	: Results-Framework Document
MSCs	: Mesenchymal Stem Cells	RFLP	: Restricted Fragment Length Polymorphism
MW	: Molecular Weight	RH	: Relative Humidity
NA	: Nutrient Agar	RMP	: Research Management Positions
NAARM	: National Academy of Agricultural Research and Management	RNFE	: Rural non-farm Employment
NABG	: National Agricultural Bioinformatics Grid	SAARC	: South Asian Association for Regional Co-operation
NAE	: Niche Area of Excellence	SAB	: Spore Associated Bacteria
NAIP	: National Agricultural Innovation Project	SAUs	: State Agricultural Universities
NARC	: Nepal Agricultural Research Council	SCAR	: Sequence Characterized Amplified Region
NARD	: National Agricultural Research Database	SCSMV	: Sugarcane Streak Mosaic Virus
NARS	: National Agricultural Research System	SLCMV	: Sri Lankan Cassava Mosaic Virus
NDF	: Non-digestible Fibre	SMA	: Single Marker Analysis
NDRI	: National Dairy Research Institute	SNP	: Single Nucleotide Polymorphism
NET	: National Eligibility Test	SOD	: Superoxide Dismutase
NFBSFARA	: National Fund for Basic, Strategic and Frontier Application Research in Agriculture	SRF	: Senior Research Fellowship
NGOs	: Non-Government Organizations	SSD	: Surface and Subsurface Drainage
NHCP	: National Herbarium of Cultivated Plants	SRI	: System of Rice Intensification
NIABI	: Network of Indian Agri-business Incubators	SSH	: Suppression Subtractive Hybridization
NISAGENET	: National Information System on Agricultural Education Network	SVVU	: Sri Venkateswara Veterinary University
NISM	: National Information Sharing Mechanism	SWYMOD	: Surface Water Yield Model
NPV	: Nuclear Polyhedrosis Virus	TANUVAS	: Tamil Nadu University of Veterinary and Animal Sciences
NRC	: National Research Centre	TDN	: Total Digestible Nutrient
NSKE	: Neem Seed Kernel Extract	TFP	: Total Factor Productivity
NTS	: National Talent Scholarship	THI	: Temperature Humidity Index
OBCs	: Other Backward Classes	TLCV	: Tomato Leaf Curl Virus
OL	: Other Languages	TLR-1	: Toll Like Receptor-1
OMP	: Outer Membrane Protein	TNAU	: Tamil Nadu Agricultural University
OUAT	: Orissa University of Agriculture and Technology	TOT	: Transfer of Technology
PAGE	: Polyacrylamide Gel Electrophoresis	TSBV	: Thaisac Brood Virus
PAU	: Punjab Agricultural University	TSS	: Total Soluble Solids/Sugars
PCR	: Polymerase Chain Reaction	UAS	: University of Agricultural Sciences
PG	: Post-graduate	UG	: Under-graduate
PGPR	: Plant Growth Promoting Rhizobia	UGC	: University Grants Commission
PPGSE	: Plausible Potato Growing Seasons Estimator	VACV	: Vaccinia Virus
PPR	: Peste des Petits Ruminants	VCRMC	: Village Climate Risk Management Committee
PSE	: Pale Soft Exudative	VTCC	: Veterinary Type Culture Centre
		WP	: Water Productivity
		WUE	: Water-use Efficiency

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