

POST GRADUATE SCHOOL
INDIAN AGRICULTURAL RESEARCH INSTITUTE
NEW DELHI-110012

No. PGS-I/1-407/AC/2018

July 31, 2018

ENDORSEMENT

A copy of the proceedings of the 407th meeting of the Academic Council held on 7th July, 2018 is forwarded herewith for information and necessary action. Comments, if any, may please be sent to the PG School within 15 days from the date of issue of the Proceedings.

1. All the members of the Academic Council and concerned Officers (By name) _____
2. PS to Director General, ICAR, Krishi Bhawan, New Delhi-110001
3. PS to Deputy Director General (Edn.), ICAR, KAB-II, Pusa, New Delhi-110012
4. Master of Halls of Residences, P.G. School Hostel Office
5. Sr. Admn. Officer, IMC (For members of Board of Management)
6. PS to Director/PS to Dean & Joint Director (Edn.), IARI/PS to Registrar/PS to Comptroller
7. Dr. S.K. Tyagi, Chief Technical Officer, P G School
8. Assistant Administrative Officer, Post Graduate School-II
9. Concerned Dealing Assistants, PGS-I


(K.C. Joshi)
Registrar

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

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**PROCEEDINGS OF THE 407th MEETING OF THE ACADEMIC COUNCIL
HELD ON JULY 7, 2018 AT 10.30 AM IN THE CONFERENCE HALL OF
Prof. M.S. SWAMINATHAN LIBRARY, IARI, NEW DELHI - 110012**

The following members were present:

1. Dr. A.K. Singh, Director (Additional charge), IARI	Chairman
2. Dr. R.K. Jain, Dean & Joint Director (Edn.), IARI	Vice-Chairman
3. Dr. H.S. Gaur, Former Vice-Chancellor, SVPUA&T, Meerut	Member
4. Dr. S.K. Datta, Former DDG(CS), ICAR	Member
5. Dr. P.K. Joshi, Director, South Asia, IFPRI	Member
6. Dr. A.K. Singh, Former Vice-Chancellor, RVSKVV, Gwalior	Member
7. Dr. J.P. Sharma, J.D. (Ext.) and J.D.(Res.) (Additional charge)	Member
8. Dr. Kuldeep Singh, Director, NBPGR	Member
9. Dr. N.K. Singh, Director (Acting), NRCPB	Member
10. Dr. L.M. Bhar, Director (Acting), IASRI	Member
11. Dr. K.K. Singh, Director, CIAE, Bhopal	Member
12. Dr. Man Singh, Project Director (Acting), WTC and Professor, WST	Member
13. Dr. K.M. Manjaiah, Associate Dean, PG School	Member
14. Dr.(Ms.) Shashi Bala Singh, Professor, Agricultural Chemicals	Member
15. Dr.(Ms.) Alka Singh, Professor, Agricultural Economics	Member
16. Dr. D.K. Singh, Professor, Agricultural Engineering	Member
17. Dr. R.N. Padaria, Professor, Agricultural Extension	Member
18. Dr. V.K. Sehgal, Professor, Agricultural Physics	Member
19. Dr. (Ms.) Seema Jaggi, Professor, Agricultural Statistics	Member
20. Dr. Y.S. Shivay, Professor, Agronomy	Member
21. Dr. (Ms.) Aruna Tyagi, Professor, Biochemistry	Member
22. Dr. A.R. Rao, Professor, Bioinformatics	Member
23. Dr. Sudeep Marwaha, Professor, Computer Application	Member
24. Dr. Subhash Chander, Professor, Entomology	Member
25. Dr. Soora Naresh Kumar, Professor, Environmental Sciences	Member
26. Dr. O.P. Awasthi, Professor, Fruit Science	Member
27. Dr. Vinod, Professor, Genetics and Plant Breeding	Member
28. Dr. Sunil Pabbi, Professor, Microbiology	Member
29. Dr. M.R. Khan, Professor, Nematology	Member
30. Dr.(Ms.) Rekha Chaudhury, Professor, PGR	Member
31. Dr. V.K. Baranwal, Professor, Plant Pathology	Member
32. Dr. Madan Pal Singh, Professor, Plant Physiology	Member
33. Dr. S.K. Jha, Professor, Post Harvest Technology	Member
34. Dr. S.K. Jain, Professor, Seed Science & Technology	Member
35. Dr. S.P. Datta, Professor, SS&AC	Member
36. Dr. T.K. Behera, Professor, Vegetable Science	Member
37. Dr. Anil Sirohi, MOHR, PG Hostels	Member
38. Mr. Sanchal Bilgrami, Comptroller, IARI	Member
39. Dr. A. Nagaraja, Senior Scientist, Fruit Science and Faculty Representative to the Academic Council	Member
40. Dr. Mahesh C. Yadav, Principal Scientist, NBPGR and Faculty Representative to the Academic Council	Member
41. Mr. Anil Kulshrestha, Incharge, Library Services	Member
42. Mr. Satish Naik, President, PGSSU	Member
43. Ms. Priyanka Upreti, Students' Representative to the AC	Member
44. Mr. K.C. Joshi, Registrar & Joint Director (Admn.)	Member Secretary

Leave of absence was sought and granted to the following members:

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|---|--------|
| 1. Dr. N.S. Rathore, Deputy Director General (Edn.) | Member |
| 2. Dr. P.K. Mishra, Director, IISWC, Dehradun | Member |
| 3. Dr. M.R. Dinesh, Director, IIHR | Member |
| 4. Dr. R.C. Bhattacharya, Professor, MBB | Member |
| 5. Dr. K.P. Singh, Professor, FLS | Member |

Dr. R.K. Jain, Dean and Joint Director (Edn.) extended a formal welcome to Dr.A.K. Singh, Director, IARI(Additional Charge) and Chairman, Academic Council. Thereafter, Dr. A.K. Singh, Chairman of Academic Council warmly welcomed the outside members of the Academic Council and all the members present in the meeting. The Academic Council congratulated Dr. K.V. Prabhu, Former Joint Director (Research), IARI for his selection as Chairperson, Protection of Plant Varieties and Farmers' Rights Authority (PPV&FRA). The Chairman informed the Academic Council about the decision of UGC for granting graded autonomy to IARI, which will further strengthen our efforts to bring in more reforms. The Chairman also welcomed the new members of the Academic Council attending the meeting for the first time:

New members

1. Dr. A.K. Singh, Former Vice Chancellor, RVSKVV, Gwalior
2. Shri Kailash Chandra Joshi, Joint Director (Admn.) and Registrar, IARI
3. Mr. Anil Kulshrestha, Incharge, Library Services, IARI

The Chairman also placed on record the valuable contributions of the following outgoing members of the Academic Council in strengthening the PG education at IARI:

1. Dr. K.V. Prabhu, Chairman, PPV&FRA and Former Joint Director (Res.), IARI
2. Smt. Sunita Gupta, Former Incharge, Library Services, IARI

The following Members of the Examination Committee also attended as Special Invitees:

1. Dr. C. Viswanathan, Head, Plant Physiology
2. Dr. Anil Dahuja, Principal Scientist, Biochemistry
3. Dr. A. Kumar, Principal Scientist, Plant Pathology

Thereafter, the following agenda items were taken up for consideration:

Agenda Item No.	Description of Agenda Items
407.1	Confirmation of the proceedings of the 406 th meeting of the Academic Council held on February 8, 2018
407.2	Action Taken Report on the Proceedings of 406 th meeting of the Academic Council held on February 8, 2018
407.3	Recommendations of the Standing Committee on Faculty & Discipline made in its meeting held on June 27, 2018
407.4	Recommendations of the Standing Committee on Course Curricula and Academic Affairs made in its meeting held on June 29, 2018
407.5	Recommendations of the Committee constituted to revisit the existing guidelines governing the IARI awards
407.6	Finalization of the results of the candidates for admission to M.Sc./M.Tech./Ph.D. degree courses at IARI for the Academic Session 2018-19
407.7	Any other item with the permission of the Chair

Agenda Item No. 407.1 Confirmation of the proceedings of the 406th meeting of the Academic Council held on February 8, 2018

The Chairman called for the comments, if any, from the members of the Academic Council on the proceedings of the 406th meeting. Since no comment was there, the proceedings of the previous meeting were confirmed.

Agenda Item No. 407.2 Action Taken Report on the Proceedings of 406th meeting of the Academic Council held on February 8, 2018

Action taken report was presented by the Dean and Joint Director (Education).

Agenda Item No. 407.3 Consideration of the proceedings of the meeting of the Standing Committee on Faculty and Discipline held on 27.6.2018

Academic Council discussed the recommendations of the Standing Committee and approved the following:

407.3.1 Induction of the following 21 Scientists into PG Faculty in their respective disciplines at IARI, New Delhi/ IARI PG outreach programme at CIAE, Bhopal, as they meet the qualifications/eligibility criteria as per prescribed guidelines.

S.No.	Name & Designation	Discipline
1.	Dr. Priya Saini, Scientist	Agricultural Chemicals
2.	Dr. Arun Kumar T.V., Scientist	Agricultural Engineering (APSE)
3.*	Dr. P. Ashutosh Pradeep, Scientist	" (FMP)
4.*	Dr. Mukesh Kumar, Scientist	" (SWCE)
5.*	Dr. R. Yogesh Anand, Scientist	" (SWCE)
6.	Mr. Deepak Singh, Scientist	Agricultural Statistics
7.	Dr. Achal Lama, Scientist	"
8.	Mr. Prakash Kumar, Scientist	"
9.	Dr. Pradip Basak, Scientist	"
10.	Dr. Mrinmoy Ray, Scientist	"
11.	Dr. Santosha Rathod, Scientist	"
12.	Dr. Bhagyasree S.N., Scientist	Entomology
13.**	Dr. Surendra Pal Singh, Principal Scientist	"
14.	Dr. Achintya Pramanik, Scientist, IARI RS-Katrain	"
15.	Dr. Yashpal, Scientist	Genetics and Plant Breeding
16.	Dr. Harikrishna, Scientist	"
17.	Dr. Chandu Singh, Scientist	"
18.**	Dr. Vijay Singh Meena, Scientist	Fruit Science
19.	Dr. Natasha Gurung, Scientist, IARI RS Kalimpong	"
20.	Ms. Hemavati Ranebennur, Scientist (Sr. Scale)	Plant Pathology
21.	Dr. Abir Day, Scientist	Soil Science and Agril. Chemistry

*from CIAE, Bhopal

**from, NBPGR, New Delhi

407.3.2 The Academic Council after deliberating on the observations of Standing Committee **approved** the induction of Dr. Pranita Jaiswal, Principal Scientist, Microbiology as Faculty Member in the discipline of Microbiology.

407.3.3 **Non Induction** of (i) Mr. W. Abhishek Mitaram, Scientist, CIAE, and Bhopal and (ii) Dr. Anshul Watts, Scientist, MBB as Faculty Member as they did not meet the requirement of Research Publications.

407.3.4 **Recognition** of the following **eighteen** faculty members as Research guides for M.Sc. guidance in their respective disciplines at IARI, New Delhi/IARI PG outreach programme at CIAE, Bhopal as they meet the prescribed requirements for becoming the research guides.

S.No.	Name & Designation	Discipline
1. *	Dr. Nalini Ranjan Kumar, Principal Scientist, NIAP*	Agricultural Economics
2.	Dr. Nishi Sharma, Senior Scientist	Agricultural Extension
3.	Dr. Sangeeta Chopra, Principal Scientist	Agricultural Engineering (APSE)
4. **	Dr. Saroj Kumar Giri, Principal Scientist	" (ASPE)
5. **	Dr. K.P. Singh, Principal Scientist	" (FMP)
6. **	Dr. Sandip Gangil, Principal Scientist	" (FMP)
7. **	Dr. KV Ramanna Rao, Principal Scientist	" (SWCE)
8.	Dr. Shashi Bhushan Lal, Senior Scientist	Bioinformatics
9.	Ms. Veda Krishnan, Scientist	Biochemistry
10.	Dr. Sweta Kumari, Scientist	"
11.	Dr. Namita Das Saha, Scientist	Environmental Science
12.	Dr. Sagar D, Scientist	Entomology
13.	Dr. Awatar Singh, Principal Scientist	Fruit Science
14.	Dr. Mahender Singh Saharan, Principal Scientist	Plant Pathology
15.	Dr. Malkhan Singh Gurjar, Senior Scientist	"
16.	Dr. D. Vijay, Senior Scientist	Seed Science and Technology
17.	Dr. Sunanda Biswas, Scientist	Soil Science and Agricultural Chemistry
18.	Dr. D.S. Gurjar, Scientist	Water Science and Technology

*from NIAP, New Delhi; Keeping in view of his previous teaching and guiding experience at CIFE, Mumbai

** from CIAE, Bhopal; As there is no M.Tech. degree course running at CIAE, Bhopal, keeping in view the need to run the Ph.D. programme and to overcome the shortage of research guides at CIAE Bhopal, the Academic Council, agreed for the relaxation of "two M.Tech. student guidance" to these faculty members at CIAE as a special case

407.3.5 Non-recognition of the following two faculty members as Research Guides as they did not meet the prescribed requirement of teaching experience.

S.No.	Name and Designation	Discipline	Reason for declining
1.	Dr. B.L. Patil, Senior Scientist	Molecular Biology and Biotechnology	Short of one year teaching experience
2.	Dr. Nimisha Sharma, Scientist(SS)	Fruit Science	Short of two year teaching experience.

407.3.6 Recognition of following six scientists as Co-Chairman subject to execution of an MoU with CRUSS, Hazaribag on the similar lines of Indian Institute of Wheat & Barley Research, Karnal and Indian Institute of Millets Research, Hyderabad.

S. No.	Name and designation of the Scientist	Discipline
1	Dr. Dipankar Maiti, Principal Scientist and Officer Incharge	Plant Pathology
2	Dr. Someshwar Bhagat, Principal Scientist	Plant Pathology
3	Dr.(Mrs.) Amrita Banerjee, Scientist	Plant Pathology
4	Dr. N.P. Mandal, Principal Scientist	Genetics and Plant Breeding
5	Dr. Somnath Rai, Scientist	Genetics and Plant Breeding
6	Dr. Bibhash Chandra Verma, Scientist	Soil Science and Agricultural Chemistry

407.3.7 Non recognition of Dr. C.V. Singh, Senior Scientist of CRUSS, Hazaribag as Co-chairman as he is superannuating in 2019.

407.3.8 Change of faculty discipline of Dr. Bhupinder Singh, Principal Scientist from Plant Physiology to Environmental Science at IARI subject to the condition that he will continue to supervise the students already allotted to him in the discipline of Plant Physiology.

407.3.9 Recognition of the candidature of following two Scientists as Adjunct Faculty at IARI as per prescribed guidelines notified vide Notification No. PGS/1-402/AC/2016 dated 20/1/2017.

S. No.	Name and designation	Discipline
1	Prof. Gajendra Singh, Former VC, Doon University	Agricultural Engineering
2.	Dr. P. Das, Former DDG (Ag. Extension), ICAR	Agricultural Extension

407.3.10 On the issue of signing MoU and consideration of CVs of selective scientists for recognition as Co-Guide received from Director, IIVR, Varanasi for Collaborative Study Programme between IIVR and IARI, the Academic Council was of the opinion that IARI may proceed for collaborative study programme with the above Institute on the similar lines of Indian Institute of Wheat & Barley Research, Karnal and Indian Institute of Millets Research, Hyderabad.

407.3.11 The Academic Council did not agree to the requests received from IARI faculty to accept "Adjunct Faculty" at Uttar Banga Krishi Viswavidyalaya, Cooch Behar, West Bengal and Dr. Y.S. Parmar, University of Horticulture & Forestry, Nauni, Solan.

Agenda Item No. 407.4 Consideration of the Proceedings of the meeting of the Standing Committee on Courses Curricula and Academic Affairs held on 29.6.2018

The Academic Council discussed the recommendations of the Standing Committee and approved the following:

407.4.1 The Academic Council agreed, in principle, for the Introduction of two new courses; (i) FSC 621 (3L+1P) - Advances in Growth and Development of Fruit Crops and (ii) FSC 603 (4L+0P) - Hi-Tech Fruit Production with the following conditions:

The BoS of Fruit Science to:

- (i) revise the contents of both the courses to remove overlapping with other existing courses,
- (ii) include practical part and change credits of FSC 603 from 4L+0P to 3L+1P and
- (iii) involve faculty from Agricultural Economics in FSC 603 course.

407.4.2 After detailed deliberations, the Academic Council approved the *discontinuance of Split Ph.D. provision from the academic session 2018-19.*

However, the Academic Council accepted the Standing Committee recommendation that the existing temporary relief for accepting employment in Government/ Public/ Private sector may be continued with the change that the thesis seminar may be held after rejoining the programme. Accordingly the Academic Council approved the following terms and conditions:

The student has:

- a. completed more than 24 months with the PG School,
- b. successfully completed 100 per cent of course work requirement,
- c. successfully completed qualifying examination,
- d. has got approved his/her ORW from Dean and completed most of the research work (about 75%) and progress report presented before the faculty and duly certified by the Advisory Committee as well as the BoS of the concerned Discipline.

The student, who is granted temporary relief, shall complete minimum residential requirement of 36 months after rejoining the programme and deliver the thesis seminar.

During the period of temporary relief, the student shall undertake to pay the prescribed continuation fee so as to remain on the rolls of PG School. After rejoining the PG School, the student shall pay all the prescribed dues.

The maximum time limit for completion of Ph.D. degree is five years from the date of admission. For completion of his/her research work pending submission of the thesis, Dean may grant extension upto one year and in exceptional circumstances, the Dean may also grant another extension of one year, with the approval of the Chairman, Academic Council provided

he is fully satisfied that the causes of the delay is beyond the control of the student.

407.4.4 The proposal received from Head, Agricultural Extension to make the English Language (a crash course) compulsory was discussed and the Academic Council was of the opinion that at present it is not feasible to make English language course compulsory.

407.4.5 The Academic Council agreed the proposal of discipline of Agricultural Extension for the introduction of *Non Credit Compulsory E-Course "PGS 507" (one Credit)* from 2018-19 academic session.

Title of the Course	: Introduction to Disaster management (PGS 507)
Number of Credits	: 1L
Number of theory lectures per week and duration	: 1 (1hour each)
Number of Practical lectures per week and duration	: NIL
Trimester in which to be offered	: I, II and III

Objectives

This course is intended to expose the students about the basic concepts and understandings of disasters and their relationships with development, increasing knowledge and awareness of risk reduction strategies to prevent major casualties during disaster, promoting and prioritizing preparedness for disaster and undertaking mitigation and risk reduction steps, conducting thorough assessment of hazards and risks vulnerability, rescue and relief operation, rehabilitation and reconstruction and capacity building.

Theory

UNIT I:

Concept and definition of Hazard, Disaster, Vulnerability, Resilience and Risk; Disaster management cycle; Meaning, nature, characteristics and types of disasters, causes and effects; Disaster profile of India and world, Impact of disasters on agriculture.

UNIT II:

Introduction to natural disasters: Geological disasters: Earthquakes, volcanic eruptions, landslides, avalanches, mudflows, Tsunamis; Hydro-Meteorological disasters: Floods and flash floods, drought, cloud burst; Cyclone, storm surge, tidal waves, heat and cold waves; Climatic change and disaster management; Epidemic and pest attacks on crops and livestock.

UNIT III:

Introduction to man-made disasters: Understanding man-made disasters, their types and emergency management. Man-made disasters: Chemical, bio-chemical, biological, radiological and nuclear disaster, bomb threat, explosion, campus

shooting, civil unrest, terrorist attack, financial emergency (like a sudden health emergency, unexpected loss of income, death in the family or other family emergency, rent in arrears, risk of eviction, etc.), building fire, forest fire, coal fire, oil fire, soil, air and water pollution, industrial wastewater pollution, hazardous materials spill, deforestation, road accidents, rail accidents, air accidents, sea accidents. Precautions for lab activities, handling of hazardous chemicals, high voltage equipments, Disasters/ hazards in agricultural activities, disasters due to urban waste, plastic, electronic/ home appliances etc.

UNIT IV:

Concept of disaster management: hazard, risk and vulnerability assessments; agricultural contingency planning; Management/ prevention of agricultural activity related disasters/ hazards; Disaster preparedness planning, prevention and mitigation of disasters at national and global levels; International strategy/treaties and norms for disaster management; National disaster management framework; financial arrangements; Community based disaster preparedness plan, rehabilitation and reconstruction; University Emergency Operations Plan; Behavioural Evaluation Assessment Technique (BETA) to track behaviour of students, deviant students' behaviour tracking and early warning and counselling

UNIT V:

Roles and responsibilities of central, state, district and local government and other agencies; Policies and laws in disaster preparedness and rehabilitation: Environmental Protection Act 1986, National Disaster Management Act 2005; Role and responsibilities of Armed Forces, Police, Para Military Forces; Role and responsibilities of International Agencies, NGOs, Community Based Org. (CBO's); Early warning and communication systems: Role of ICT and media in disaster preparedness, Remote Sensing, GIS and GPS, use and application of emerging technologies/ decision support systems in disaster preparedness.

Agenda Item No. 407.5 Consideration of the recommendations of the Committee constituted for revisit the existing guidelines governing the IARI awards

The Academic Council discussed the recommendations of the Committee under the Chairmanship of Dr. P.L. Gautam, Former Vice Chancellor, GBPUA&T, Pantnagar to revisit the existing guidelines governing the IARI awards. After detailed deliberations the Academic Council approved the following:

1. Single Screening Committee for all the awards and separate Judging Committee for each of the awards.
2. The cut off score for the applications/nominations to be placed before the Judging Committee shall be 60%.
3. The scoring made by the Screening Committee for each application shall carry 100 Marks (80% weightage). The above scoring made by the Screening Committee shall be examined by the judging Committee followed by additional scoring (20% weightage).
4. Revised guidelines for application form and marking scheme for the IARI awards viz. Rao Bahadur B. Viswanath, Dr. A.B. Joshi, Hari Krishna Shastri, Sukumar Basu and Hooker Awards (**Appendix-I**)

Agenda Item No. 407.6 Finalization of the results of the candidates for Admission to M.Sc./M.Tech./Ph.D. degree courses at IARI for the Academic Session 2018-19

407.6.1 Admission of the candidates for M.Sc./M.Tech. degree programs at IARI

The Academic Council was apprised with the entrance examination for admission of the candidates for M.Sc./M.Tech. degree programs for SAUs/ICAR-DUs/CAUs arranged by the Education Division of ICAR. The list of the selected candidates for IARI will be available only after Counselling conducted by the Education Division, ICAR.

Keeping in view of the above, the Academic Council authorized the Dean, P.G. School to finalise the admission of M.Sc./M.Tech. degree programme with the approval of Chairman, Academic Council.

407.6.2 Selection of foreign students for M.Sc. and Ph.D. degree courses at IARI for the Academic Session 2018-19

Thirty seats are available under this stream. The selection of following 9 foreign nationals (4 Ph.D., 5 M.Sc.) on the recommendations of the Professors in the respective Disciplines and approved by the Director, IARI and Chairman of the Academic Council was ratified by the Academic Council.

Ph.D.

S. No.	Name of Candidate	Discipline	Country	Scheme
1.	WADZANI DAUDA PALNAM	PLANT PATHOLOGY	NIGERIA	TWAS Fellowship
2.	Ms. SAYLA KHANDOKER	AGRICULTURAL ECONOMICS	BANGLADESH	BEAHRD Fellowship
3.	MAWULIKWAMLA AZAMETI	MOLECULAR BIOLOGY AND BIOTECHNOLOGY	GHANA	Netaji Subhash-ICAR International Fellowship 2017-18
4.	HSU YI MON	MOLECULAR BIOLOGY AND BIOTECHNOLOGY	MYANMAR	ACARE Programme (MEA), IARI, New Delhi

M.Sc.

S. No.	Name of Candidate	Discipline	Country	Scheme
1.	YIN MON Oo	MOLECULAR BIOLOGY AND BIOTECHNOLOGY	MYANMAR	ACARE Programme (MEA), IARI, New Delhi
2.	HSU YADR NGE	"	"	"
3.	JUE SANDAR LWIN	POST HARVEST TECHNOLOGY	"	"
4.	HTET MYAT HTWE	"	"	"
5.	YIN NYEINE AYE	AGRICULTURAL EXTENSION	"	"

With regard to the applications of foreign students which are under process and to be received if any, henceforth for the current academic year 2018-19, the Academic Council authorized the Dean to get the selection finalized with the approval of the Chairman of the Academic Council.

407.6.3 Selection of the candidates for Ph.D. degree courses at IARI, New Delhi

With the approval of the Director (IARI) and Chairman of the Academic Council, an examination Committee was constituted for overall supervision of the process of the examination. The process of entrance examination was successfully carried out starting with the advertisement which appeared in all the major national dailies in March, 2018 with April 16, 2018 as the last date for submission of applications. As approved by the Academic Council in 402nd meeting held on December 16, 2017, the Entrance Examination for admission to Ph.D. degree programmes at IARI, New Delhi and CIAE, Bhopal was held on June 10, 2018 at thirteen centres viz., Anand, Bengaluru, Ludhiana, Coimbatore, Delhi, Guwahati, Jabalpur, Hyderabad, Patna, Kolkata, Pune, Udaipur and Varanasi.

Dr. C. Viswanathan, Chairman, Examination Committee presented the recommendations of the Examination Committee. He conveyed his gratitude for providing him the opportunity to carry out this very important, confidential, voluminous and time bound task. He also appreciated the contributions of all the members of the Examination Committee, Professors, Heads and faculty members, P.G. School officials who helped in accomplishing this job very smoothly. He also informed the Council that while finalizing the results due care has been taken towards the selection of OBC/SC/ST/PC/CWSF category candidates as per the norms prescribed by the Govt. of India.

This year candidates in ten disciplines who opted to write in Hindi were provided with question papers in Hindi besides English papers.

For the fifth consecutive year, applications for admissions to Ph.D. courses at our sister institute, namely, CIAE were also invited. Applications were invited **online** for admission to the Ph.D. degree programme in 26 disciplines at the Indian Agricultural Research Institute, New Delhi and in Agricultural Engineering discipline at CIAE, Bhopal (Sub-disciplines: Agricultural Processing & Structure, Farm Power & Equipment, and Soil & Water Conservation Engineering), respectively, for the Academic Session 2018-19. A total of **2362** eligible applications were received for admission by the PG School, IARI and these candidates were allowed to appear for the written examination. A total of **1706** candidates appeared for the written examination.

Based on the performance in the written examination, the Examination Committee recommended the names of **581** candidates for interview in various disciplines, of which **513** appeared for the interview in the respective disciplines. The candidates were interviewed in the respective disciplines on **July 2, 2018** by the Interview Boards duly constituted by the Director and Chairman of the Academic Council, IARI.

The results of the entrance examination were compiled by the Examination Committee on the basis of the marks obtained by the interviewed candidates in the written examination, interview and their respective academic scores. The Provisional Final Result as recommended by the Examination Committee, is placed for the consideration and approval of the Academic Council.

The Committee recommends **185** candidates for filling up the **185** seats under the Open Scheme at IARI as approved by the Academic Council in its **405th** meeting held on December 16, 2017. This includes **6** Physically Challenged

candidates. In addition to this, 22 other candidates are recommended for admission which includes 10 under ICAR In-service, 5 in the Faculty Up-gradation Scheme, 2 under Departmental Scientific Scheme and 5 under CWSF. Thus, a total of 207 candidates are recommended for admission to the Ph.D. programme at PG School, IARI for the Academic Session 2018-19, which includes 14 candidates for CIAE, Bhopal for PG Outreach Programme at sister Institute.

A. Admission of candidates under the Open Scheme

• IARI, New Delhi

- (i) Under the General category in the Open scheme, 87 seats were available for admission at IARI. 43 candidates belonging to categories other than General (OBC-34, SC-8, and ST-1) have been selected under the general category seats on the basis of their merit.
- (ii) 46 seats for OBC, 26 for SC and 13 for ST categories were reserved across different disciplines at IARI.
- (iii) Out of the 46 seats under the OBC category, 6 seats remained unfilled due to lack of qualified candidates, two each in the disciplines of Agricultural Statistics and Biochemistry and one each in Bioinformatics and Plant Physiology. These OBC seats are recommended to be filled up by transfer on merit basis in the disciplines of Entomology (2 seats), Agricultural Engineering - Soil & Water Conservation Engineering (2 seats), Fruit Science (1 seat) and Seed Science & Technology (1 seat).
- (iv) Out of the 26 seats reserved under SC category, five seats remained unfilled, one each in the discipline of Agricultural Extension, Bioinformatics, Computer Application, Nematology and Water Science & Technology due to the non-availability of qualified candidates in these disciplines in the SC category. The five unfilled SC category seats are recommended to be filled up by transfer on merit basis in the disciplines of Entomology (2 seats), Agricultural Engineering-Agricultural Processing & Structure (1 seat), Floriculture & Landscape Architecture (1 seat), and Plant Physiology (1 seat).
- (v) Of the 13 seats reserved for the ST category this year, two seats remained unfilled in the ST category in the disciplines of Vegetable Science and Plant Pathology. These seats are recommended to be filled up by transfer in the discipline of Agricultural Engineering - Soil & Water Conservation Engineering and Plant Physiology.
- (vi) Thus all the 13 seats in the OBC (6 seats), SC (5 seats), and ST (2 seats) categories that remained unfilled on account of non-availability of qualified candidates in the originally approved disciplines are recommended to be filled up by transfer in other disciplines on the basis of merit, where candidates are available.

• PG School Outreach Programme at CIAE, Bhopal

Total of 14 seats for Ph.D. (7 General, 3 OBC, 2 SC, 1 ST and 1 ICAR in-service) were recommended for admission at CIAE, Bhopal.

The details of filled-up seats in all the disciplines and Wait-listed are given in the lists which are circulated to the Academic Council.

B. Admission in other schemes

- (i) For the Academic Year 2018-19, the number of seats available under various schemes were as follows:
- | | |
|---|------|
| Faculty Up-gradation Scheme | - 10 |
| *ICAR In-service nominee | - 10 |
| Departmental (Scientific) | - 10 |
| Departmental (Technical) | - 26 |
| Children/Widows of Security Forces (CWSF) | - 05 |
- (ii) On the basis of merit, the Committee recommends a total of 22 seats to be filled up under the different Schemes. These include 10 seats under the ICAR In-service Nominee, 5 seats under the Faculty Up-gradation Scheme, 2 under Departmental Scientific scheme and 5 under Children/Widows of Security Forces (CWSF) scheme in the respective disciplines.

*Qualifying in ICAR Senior Fellowship Examination is a pre-requisite for ICAR In-service nominee scheme. However this year, the result for ICAR Senior Fellowship Examination is yet to be finalized by the Education Division of ICAR. The candidates recommend for admission under ICAR In-service category scheme may please be approved, exempting the pre-require for ICAR SRF qualification was not approved by the Academic Council.

The list of selected candidates for Ph.D. degree programmes as approved by the Academic Council is placed at **Appendix-II (Table-I)**.

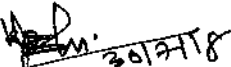
The Chairperson, Vice Chairman and all the members of Academic Council appreciated the work and dedication of the Examination Committee for successful completion of Ph.D. entrance examination programme.

Agenda Item No. 407.7 Any other item with the permission of the Chair.

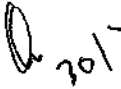
407.7.1 The Academic Council agreed for a Collaborative study programme with National Institute of Abiotic Stress Management (NIASM) on the similar lines of Indian Institute of Wheat & Barley Research, Karnal and Indian Institute of Millets Research, Hyderabad.

407.7.2 The Academic Council was of the opinion that an awareness/interactive meet for the Embassy officials of African Countries may be arranged to attract talented students from these countries at IARI.

The meeting ended with a vote of thanks to the chair.


(K.C. Joshi)
Member-Secretary


(R.K. Jain)
Vice Chairman


(A.K. Singh)
Chairman

Guidelines governing "Rao Bahadur B. Viswanath Award" instituted in the field of Agricultural Sciences to commemorate the memory of late Rao Bahadur B. Viswanath, the first Indian Director of Indian Agricultural Institute, New Delhi

1. Name of the Award

The name of the award shall be 'Rao Bahadur B. Viswanath Award' which is instituted in the field of Agricultural Sciences to commemorate the memory of late Rao Bahadur B. Viswanath, the first Indian Director of Indian Agricultural Research Institute, New Delhi- 110012.

2. Nature of the Award

The Award will carry a sum of Rs.1,00,000 in cash, a Medal and a Citation.

3. Sources of Funds

Rs. 60,317/-	Donated by Shri B. Joga Rao, Secretary, B. Viswanath Birth Centenary National Committee
Rs. 1,00,000/-	Drawn from the interest of Indian Science Congress funds
Rs. 16,50,000/-	Project under Revolving fund Scheme (Hybrid Seed Production)
Rs. 4,00,000/-	F.D. made from interest in 2011.

4. Objective of the Award

The objective of the award shall be to recognise outstanding accomplishments in agricultural sciences.

5. Periodicity of the Award

The periodicity of the award shall be biennium, commencing from the year 2005-2006.

6. Eligibility for the Award

The award shall be given to Indian Nationals engaged in the field of agricultural sciences. It may include subjects like all aspects of field crops, horticulture, animal husbandry, veterinary science, dairy sciences, fisheries including marine fisheries, community sciences, agricultural engineering, and technology, food sciences and agro-forestry. The award should be bestowed on a person who has made outstanding contributions with particular relevance and impact on Indian Agriculture.

The original contributions should be evident in the form of publications, monographs, patents, varieties and technologies developed and popularization, dissemination and adoption of technologies by the stakeholders.

The nominee should be more than 55 years of age with a standing of 25 years of outstanding contribution in the concerned field of Agricultural Sciences. The period of assessment shall be life time up to the year of application/nomination.

Applications/Nominations are to be made by the Secretaries of Science departments of Government of India, Vice-Chancellors, Directors of Agricultural Research Institutes of national importance, and Presidents of National Academies.

7. Administration of the Award

The Institute shall have the sole right of selection of the recipients of the award and of the formulation of rules governing such selection from time to time.

8. Screening Committee

Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas to be concerned year for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairman of the Academic Council will nominate the Chairperson for the Judging Committee and its members concerning the subject area to be concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of these committees and some other Scientist will be nominated by the Chairman, Academic Council in his/her place.

The function of the Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI. In the opinion of the Judging Committee, if no deserving candidate is available, the award will not be given.

The award shall be given to only one person at one time and will not be shared.

10. Evaluation Criteria

- Overall contribution towards research, teaching and transfer of technology.
- Scientific, technological and socio-economic relevance and priority of research projects.
- Actual impact on production, productivity, profitability and sustainability of relevant agricultural system.

11. Procedure for selection of Recipient

Applications/Nominations will be invited from Indian nationals engaged in the field of Agricultural Sciences for the above award duly forwarded, through concerned authorities. Each such application/nomination, which shall be in the prescribed form, accompanied with detailed statements of the work and attainment of the candidate to be submitted by a specific date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants/nominations who secured a minimum of 75% marks.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

After the acceptance of the recommendations of the Judging Committee by the Academic Council, the award shall be announced.

12. Presentation of the Award

The award shall be made at the Convocation of the Institute and the awardee shall be required to deliver a lecture based on his/her contributions during the Convocation Week Programme.

The expenditure relating to the arrangements for the award and the TA/DA to the awardee to be paid as per the ICAR rules will be met out from the interest accrued from the deposit.



**Post Graduate School
Indian Agricultural Research Institute
New Delhi**



Proforma for Rao Bahadur B. Viswanath Award

1. Name and Designation of the Applicant/Nominee in full:
2. Father's and mother's name:

Photograph

3. Address:

4. Contact Telephone No./FAX/E-mail:

5. Date and place of Birth:

6. Nationality:

7. Marital status:

8. Academic & Professional Qualifications beginning with the first degree or equivalent (in a tabular form)

S.No.	Degree/Diploma	Year	Major filed	University/Institution	Division/Distinction
1	Graduation				
2	Masters				
3	Doctoral				
4	Any other degree/Diploma				
5	Post-doctoral				

9. Employment status (in tabular form):

Designation	Pay scale (Rs.)	Nature of work	Institute (Organization)	Period (From - To)

10. Training in India and/or Abroad (In the area relevant to the award)

Training	Institution/Country	Sponsored by	Duration	Subject

11. Research projects handled:

Details of the Research projects handled (Rs. 25 lakh and above)

S.No.	Name of the project	Funding agency	Duration and amount	PI/Co-PI/Associate	List 3 most important achievements

12. Details of the research work being presented for the award:

- (i). When, where and how the research works was conceptualized?
- (ii). Significant Research work carried out (Advancement in Science/ technology generated, varieties developed/new concepts developed) (not more than 5 pages)
- (iii). What were the socio-economic, technological and scientific relevance and priorities of this work?
- (iv). What is the potential value of these results in increasing production, productivity, profitability and sustainability of agricultural enterprises in the relevant field? (with clear evidence)
- (v). What has been the actual impact of these findings in quantifiable and verifiable terms?
- (vi). A concise statement (about 250 words) highlighting the most significant aspect of the research work done that you would like to see in your citation, if chosen?

13 (i). List of all publications (having NAAS Score of >6.0) in bibliographic format arising out of the research work.

S.No.	Name of Authors	Year of publication	Title of paper	Journal, Volume, Issue, page Nos.	NAAS Journal ID	NAAS Score	Number of citations based on ISI Science Citation Index

(ii). Other publications

S.No.	Item	Details
1	Books/ Books edited	
2	Book Chapters	
3	Scientific Review articles	
4	Technical Bulletins/ Reports/Manuals/Concept papers/Policy brief, etc.	

14. Awards and Honors received

S. No.	Name of the Award/ Honor	Year	National/ International	Academy/Institutional/ Professional Society
1				
2				
3				

15. Whether any patents have been taken out or applied for, based on results of this research work? If so give details.

16. Whether this research work has been submitted for any other award /recognition? If so, what was the outcome?

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

Place: _____ **Date:** _____ **(Signature of Applicant/Nominee)**

Forwarding note by the Head of the Institution or President, National Academy in support of the research contribution.

Signature & Seal

Enclosures:

1. Application in original, duly forwarded/nominated and complete in all respect (5 copies)
2. One set of reprints of 10 most important publications
3. Documentary proof for all the claims made in the application

Allocation of marks (Rao Bahadur B. Viswanath Award)

S. No.	Criteria	Maximum Marks	Weightage
1	Research achievements: (i) Products/ variety - 5 marks for each (ii) Technology - 5 marks for each (iii) Patents - 5 marks for each	40	
2	Commercialization of Technologies	10	
3	Research Papers and other publications	40	
4	Awards and Honors	10	
	Total Marks	100	80%
	Weightage for Judging Committee		20%

Products/variety, patents and Technologies developed and commercialized*

- (i) Developer of each patented and commercialized product/technology/ each plant variety Gazette Notified by the CVRC/ animal, fish, bird breed (strain) authenticated by accredited body (national level) (5 marks each).
- (ii) Copyrighted commercialized software/trademark/IP protection (5 marks each)
- (iii) Patents granted with details of Patent No. (5 marks for each patent).

*Developer (one) shall be awarded 100% marks, Co-developers (max. two) 75% marks and associates 50% marks.

Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

Publications

- (i) For research papers (20 marks): Marks will be given according to the NAAS score of Journals (NAAS Score 20 = 0.5 mark). Each publication will be given a maximum of 0.5 mark with a cap of maximum 20 marks. Attach one set of reprints of the 10 most important publications.
- (ii) First author will get full marks in a publication and rest of the authors 75% marks.
- (iii) For books, Manuals, etc. (20 marks): 4 marks each for Book, 2 marks each for Edited book, 0.5 mark each for Manuel, Scientific review paper, Bulletin, etc.

Awards and Honors

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (3 marks each limited to maximum 6 marks) (full marks to individual / leader, and 50% marks to associate).
- (ii) National and International level Professional Society and Academy (not covered above) Awards/Recognition (Fellowship; Lifetime Achievement Award; President, Editor-in-Chief (or equivalent), and Secretary positions) (0.5 mark each limited to maximum 4 marks).

Guidelines governing “Dr. A.B. Joshi Memorial Award” for outstanding research contribution in the field of Agricultural Research and Education

1. Name of the Award

The name of the award shall be “Dr. A.B. Joshi Memorial Award” which is instituted in the field of Agricultural Research and Education to commemorate the memory of late Dr. A.B. Joshi, the first Indian Dean of IARI, Director and DDG (Crop Sciences), ICAR, New Delhi.

2. Nature of the Award

The Award will carry a sum of Rs. 1,00,000 in cash, a Medal and a Citation.

3. Source of Funds

Rs. 20,00,000/- Revenue receipt head of IARI for the year 2011-12 (code No.501/114199)

4. Objective of the Award

The award shall be made for either fundamental or applied research including invention, discoveries, development of technologies, and leading to results of practical value and social impact in India and outstanding contributions to Agricultural Education.

5. Periodicity of the Award

The periodicity of the award shall be biennium, commencing from the year 2011-2012.

6. Eligibility for the Award

The award shall be given to Indian Nationals for their outstanding contributions in the field of Agricultural Research and Education. The award shall be made for notable and original research (both fundamental and applied) leading to results of practical value and social impact in India, and significant contributions to advancement of agricultural education.

The original contributions should be evident in the form of publications, monographs, patents, varieties and technologies developed and popularized, educational achievements, leadership in promotion of agricultural education, dissemination and adoption of technologies by the stakeholders.

The nominee should be more than 55 years of age with a standing of 25 years of outstanding contributions both in the field of Agricultural Research and Education. The period of assessment shall be life time up to the year of application/nomination.

Applications/Nominations are to be made by the Secretaries of Science departments of Government of India, Vice-Chancellors, Directors of Agricultural Research Institutes of national importance and Presidents of National Academies.

7. Administration of the Award

The Institute shall have the sole right of selection of the recipients of the award and of the formulation of rules governing such selection from time to time.

8. Screening Committee

Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas to the concerning year for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairman of the Academic Council will nominate the Chairman for the Judging Committee and its members concerning the subject area to the concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairman & Member- Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of these committees and some other Scientist will be nominated by the Chairman, Academic Council in his/her place.

The function of the Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI.

In the opinion of the Judging Committee, if no deserving candidate is available, the award will not be given.

The award shall be given to only one person at one time and will not be shared.

10. Evaluation Criteria

- Significant contributions in advancement and promotion of agricultural education.
- Overall contributions in the field of Agricultural Research (both fundamental and applied) leading to results of practical value and social impact in India.

11. Procedure for selection of Recipient

Applications/Nominations will be invited from Indian nationals engaged in the field of Agricultural Sciences for the above award duly forwarded through concerned authorities. Each such application, which shall be in the prescribed form, accompanied with detailed statements of the work and attainment of the candidate is to be submitted by a specific date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants/nominations who secured a minimum of 75% marks.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

After the acceptance of the recommendations of the Judging Committee by the Academic Council, the award shall be announced.

12. Presentation of the Award

The award shall be made at the Convocation of the Institute and the awardee shall be required to deliver a lecture based on his/her contributions during the Convocation Week Programme.

The expenditure relating to the arrangements for the award and the TA/DA to the awardee to be paid as per the ICAR rules will be met out from the interest accrued from the deposit.



Post Graduate School
ICAR-Indian Agricultural Research Institute
New Delhi

Proforma for Dr. A.B. Joshi Award

1. Name and Designation of the applicant/nominee in full:

2. Father' and mother's name:

3. Address:

4. Contact Telephone No./FAX/E-mail:

5. Date and place of Birth:

6. Nationality:

7. Marital status:

8. Academic & Professional Qualification beginning with the first degree or equivalent (in a tabular form)

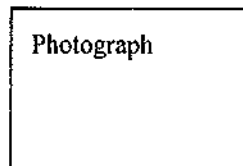
S.No.	Degree/Diploma	Year	Major field	University/Institution	Division/Distinction
1	Graduation				
2	Masters				
3	Doctoral				
4	Any other degree/Diploma				
5	Post-doctoral				

9. Employment status (in tabular form):

Designation	Pay scale (Rs.)	Nature of work	Institute (Organization)	Period (From - To)

10. Training in India and/or Abroad (In the area relevant to the award)

Training	Institution/Country	Sponsored by	Duration	Subject



11. Research projects handled:

Details of the Research projects handled (Rs. 25 lakh and above)

S.No.	Name of the project	Funding agency	Duration and amount	PI/Co-PI/Associate	List 3 most important achievements

12. Details of the research work being presented for the award:

- (i). When, where and how the research works was conceptualized?
- (ii). Significant Research work carried out (Advancement in Science/technology generated, varieties developed/new concepts developed) (not more than 5 pages)
- (iii). What were the socio-economic, technological and scientific relevance and priorities of this work?
- (iv). What is the potential value of these results in increasing production, productivity, profitability and sustainability of agricultural enterprises in the relevant field? (with clear evidence)
- (v). What has been the actual impact of these findings in quantifiable and verifiable terms?

13. Details of contribution to advancement of agricultural education:

- i) Teaching experience (No. of years of teaching, Courses taught, No. of classes taken each year)
- ii) M.Sc. /M.Tech. /Ph.D. Guidance as Chairman (Give thesis titles, M.Sc. /M/Tech. and Ph.D.)
- iii) Curriculum development (National/International)
- iv) Development of systems of education/capacity building
- v) Awards and Honors conferred on students guided
- vi) Development of educational institutions (College/Department/New Teaching Programme/Infrastructure, more than Rs. 50 Lakhs)
- vii) Any other contribution to education

14 (i). List of all publications (having NAAS Score >6.0) in bibliographic format arising out of the research work.

S.No.	Name of Authors	Year of publication	Title of paper	Journal, Volume, Issue, page Nos.	NAAS Journal ID	NAAS Score	Number of citations based on ISI Science Citation Index

(i) Other publications

S.No.	Item	Details
I	Books/Books edited	
II	Book Chapters	
III	Scientific Review articles	
IV	Technical Bulletins/ Reports/Manuals/Concept papers/Policy brief, etc.	

15. Awards and Honors received

S. No.	Name of the Award/ Honor	Year	National/ International	Academy/Institutional/ Professional Society
1				
2				
3				

16. A concise statement (about 250 words) highlighting the most significant aspects of the research & education done that you would like to see in your citation, if chosen?

17. Whether any patents have been taken out or applied for, based on results of this research work? If so give details.

18. Whether this research work has been submitted for any other award/ recognition? If so, what was the outcome?

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

Place:

Date:

(Signature of the Applicant/Nominee)

Forwarding note by the Head of the Institution/ Nominating authority in support of the contribution to research and education.

(Signature & Seal)

Enclosures:

1. Application in original, duly forwarded/nominated and complete in all respect (5 copies)
2. One set of reprints of 10 most important publications
3. Documentary proof for all the claims made in the application

Allocation of marks (Dr. A.B. Joshi Memorial Award)

S. No.	Criteria	Maximum Marks	Weightage
1	Research achievements: (i) Products/ variety - 5 marks for each (ii) Technology - 5 marks for each (iii) Patents - 5 marks for each	30	
2	Contribution to advancement of agricultural education and capacity building	40	
3	Research Papers and other publications	20	
4	Awards and Honors	10	
	Total Marks	100	
	Weightage for Judging Committee		80%
			20%

Products/variety, patents and Technologies developed and commercialized*

- (i) Developer of each patented and commercialized product/technology / each plant variety Gazette Notified by the CVRC/ animal, fish, bird breed (strain) authenticated by accredited body (national level) (5 marks each).
- (ii) Copyrighted commercialized software/trademark/IP protection (5 marks each)
- (iii) Patents granted with details of Patent No. (5 marks for each patent).

*Developer (one) shall be awarded 100% marks, Co-developers (max. two) 75% marks and associates 50% marks.

Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

Contribution to agricultural educational and capacity building

- (i) Courses taught and number of classes taken in each course (10 marks): *Full marks, if taken at least 50 classes in a year, for 10 years.*
- (ii) M.Sc. /M.Tech. /Ph.D. Students Guided as Chairman (12 marks): *Give thesis titles. 1.0 mark for M.Sc./M.Tech. and 2.0 marks for each Ph.D. student guidance as Chairman.*
- (iii) Development of educational institutions, capacity building (8 marks) (1 mark for each activity).
- (iv) Curriculum development (National/International) (5 marks) (1 mark each activity).
- (v) Success of students (in terms of their recognition for awards) (5 marks): *Selection in ARS, Medals, Awards etc. (0.5 mark each).*

Publications

- (i) For research papers (12 marks): Marks will be given according to the NAAS score of Journals (NAAS Score 20 = 0.2 mark). Each publication will be given a maximum of 0.2 mark with a cap of maximum 12 marks. *Attach one set of reprints of the 10 most important publications.*
- (ii) First author will get full marks in a publication and rest of the authors 75% marks.
- (iii) For books, Manuals, etc. (8 marks): 1.0 mark each for Book, 0.5 mark each for Edited book, 0.25 mark each for Manual, Scientific review paper, Bulletin, etc.

Guidelines governing "Hari Krishna Shastri Memorial Award" for outstanding agricultural scientist

1. Name of the Award

The "Hari Krishna Shastri Memorial Award" for outstanding agricultural scientist

2. Nature of the Award

The award will carry a sum of Rs. 25,000 and a Certificate for the outstanding contributions in all branches of Agricultural Sciences.

3. Objective of the Award

To motivate the Agricultural Scientists by recognizing their outstanding contributions to agricultural research, education and extension in India.

The award shall be made for either fundamental or applied research including inventions, discoveries, etc. leading to results of practical values in the concerned discipline.

4. Periodicity of the Award

The award shall be made annually.

5. Eligibility for the Award

Applicant should be an active scientist up to the age of 62 years and should have outstanding contributions to agricultural research, education and extension in any field of agricultural sciences while working in India.

The award shall be made for notable or original research both fundamental and applied in particular subject as revealed in papers, books, monographs, patents or any other published account of outstanding research work, inventions or discoveries, education and extension activities.

However, contributions or achievements which have received any other award, shall not be eligible for consideration of this Award.

6. Administration of the Award

The IARI shall retain the right to designate the general fields of endeavor in which the award shall be made.

The Institute shall have the sole right of selection of recipients of the award and of the formulation of rules governing such selection from time to time.

7. Screening Committee

Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas to the concerning year for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

8. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairman of the Academic Council will nominate the Chairman for the Judging Committee and its members concerning the subject area to the concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairman & Member- Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of these committees and some other Scientist will be nominated by the Chairman, Academic Council in his/her place.

The function of the Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI.

In the opinion of the Judging Committee, if no deserving candidate is available, the award will not be given.

The award shall be given to only one person at one time and will not be shared.

9. Procedures for selection of recipient

Applications are invited from the scientists from all branches of Agricultural Sciences for the above award duly forwarded through concerned authorities. Each such application, which shall be in the prescribed form accompanied with detailed statement of the work and attainments of the candidate, to be submitted by a specific date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 75% marks.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

After the acceptance of the recommendations of the Judging Committee by the Academic Council, the award shall be announced.

10. Presentation of the Award

The award shall be made at the Convocation of the Institute and the awardee shall be required to deliver a lecture based on his/her contributions during the Convocation Week Programme.

The expenditure relating to the arrangements for the award and the TA/DA to the awardee to be paid as per the ICAR rules will be met out from the interest accrued from the deposit.

(b) Training in India and/or abroad (In the area relevant to the award)

Training	Institution/Country	Sponsored by	Duration	Subject

7. Employment record

Designation	Pay scale (Rs.)	Nature of work	Institute (Organization)	Period (From - To)

8. Achievements

(a) Research and extension

Sl. No.	Item*	Details in quantifiable and verifiable terms. Whether applicant is a Developer, Co-developer or Associate
1.	Product/Patent/ Variety/ Software developed	
2.	New Concept / Methodology/ Process/ Model developed	
3.	Advancement in science/Technologies generated	
4.	The potential value/ Impact in terms of area coverage of technology/likely impact of research in Agricultural Sciences/ Commercialization of technology and revenue generation	

**Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.*

(b) Teaching

S.No.	Item	Detail	Year
1.	Courses taught and number of classes taken in each course		
2.	M.Sc./Ph.D. Students Guided as Chairman		
3.	New concept introduced in course/Design of innovative course curriculum/New Course introduced or course(s) revised		
4.	Success of students (in terms of their recognition for awards)		
5.	Books/Manuals/Bulletins/ Quality reference material		
6.	Organization/participation as a teacher in Training/Summer or Winter school		

(c) Please state the most significant achievements in bullet form (*Not more than 300 words*)

--

9. (a) List 10 most important & highest NAAS rated publications in chronological order (attach one set of reprints)

S.No.	Name of authors	Year of publication	Title of paper	Journal, Volume, issue & page Nos.	NAAS Journal ID and NAAS Score	Number of citations based on ISI Science Citation Index
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

(b) Total no. of publications (*Please give complete list covering all the below-mentioned details*)
 Research papers with NAAS score >6.00 (excluding those given at Sl. No. 9a above)

S.No.	Name of authors	Year of publication	Title of paper	Journal, Volume, issue & page Nos.	NAAS Journal ID	NAAS Score

10. Awards and Honors received

S. No.	Name of the Award/ Honor	Year	National/ International	Academy/Institutional/ Professional Society
1				
2				
3				

11. Please mention if this work has been submitted/ recognized for any other award.

12. Any other information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

Place:

Date:

(Signature of the applicant)

"Certified that the information given by the candidate in this application has been verified and fully authenticated and that there are no disciplinary action or proceedings pending or contemplated against the candidate.

Recommendation of the Head of the Institution

**(Signature)
& Seal**

Enclosures:

1. Application in original, duly forwarded and complete in all respect (5 copies)
2. Reprints of the 10 most important papers listed at Sl. No. 9(a) of application
3. Documentary proof for the claims made in respect of technology, product, patent etc.

Allocation of marks (Hari Krishna Shastri Memorial Award)

S. No.	Criteria	Maximum Marks	Weightage
1	Research achievements: (iv) Products/ variety - 5 marks for each (v) Technology - 5 marks for each (vi) Patents - 5 marks for each	30	
2	Commercialization of technologies	10	
3	Teaching innovations and achievements	20	
4	Research Publications	20	
5	Books, manuals, bulletins, quality reference material	10	
6	Awards and Honors	10	
	Total Marks	100	80%
	Weightage for Judging Committee		20%

Products/variety, patents and Technology developed and commercialized*

- (i) Developer of each patented and commercialized product/technology/ each plant variety Gazette Notified by the CVRC/ animal, fish, bird breed (strain) authenticated by accredited body (national level) (5 marks each).
- (ii) Copyrighted commercialized software/trademark/IP protection (5 marks each)
- (iii) Patents granted with details of Patent No. (5 marks for each patent).

*Developer (one) shall be awarded 100% marks, Co-developers (max. two) 75% marks and associates 50% marks.

Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

Teaching innovations and achievements

- (i) Courses taught and number of classes taken in each course (5 marks): *Full marks, if taken at least 50 classes in a year, for 5 years.*
- (ii) M.Sc. /M.Tech/Ph.D. Students Guided as Chairman (6 marks): *Give thesis titles. 0.5 mark for M.Sc./M.Tech. and 1.0 mark for each Ph.D. student guidance as Chairman.*
- (iii) New concept introduced in course/Design of innovative course curriculum/New Course introduced or course(s) revised (2 marks): *Enumerate innovative modification/suggestion in courses introduced by you (0.25 mark each activity).*
- (iv) Success of students (in terms of their recognition for awards) (4 marks): *Selection in ARS, Medals, Awards etc. (0.5 mark each).*
- (v) Organization/participation as a teacher in Training/Summer or Winter school (3 marks): *(0.5 mark each).*

Publications

- (i) For 10 most important publications (20 marks): Marks will be given according to the NAAS score of Journals (NAAS Score 20 = 2.0 marks). Each publication will be given a maximum of 2.0 marks with a cap of maximum 20 marks. *Attach one set of reprints of the 10 most important publications listed in the application.*
- (ii) First author will get full marks in a publication and rest of the authors 75% marks.
- (iii) For books, Manuals, etc. (10 marks): 1.0 mark each for Book, 0.5 mark each for Edited book, 0.25 mark each for Manuel, Scientific review paper, Bulletin, etc.

Awards and Honors

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (3 marks each limited to maximum 6 marks) (full marks to individual / leader, and 50% marks to associate).
- (ii) National and International level Professional Society and Academy (not covered above) Awards/Recognition (Fellowship; Lifetime Achievement Award; President, Editor-in-Chief (or equivalent), and Secretary positions) (0.5 mark each limited to maximum 4 marks).

Guidelines governing the “Sukumar Basu Memorial Award” for outstanding research in agricultural sciences including animal husbandry and forestry

1. Name of the Award

The “Sukumar Basu Memorial Award” for outstanding research in agricultural sciences including Animal Husbandry and Forestry

2. Donor of the Award

The Award has been Donated by Late Dr. Sib Das Basu, M.B. DIH, DPH, Ex-Joint Director of Health Services, Govt. of West Bengal to commemorate the name of his brother, late Sukumar Basu, ICS, who was for many years concerned with various aspects of agriculture in the Govt. of India and the Govt. of undivided Bengal and was also associated with the ICAR in the capacity of its Secretary, Vice-Chairman and Chairman.

3. Nature of the Award

The award will carry a sum of Rs. 25,000 and a Certificate for the outstanding research in agriculture including animal husbandry and forestry.

4. Objective of the Award

To create incentive for research workers in India for the purpose of improving the quality of life through improvement of agricultural productivity and profitability in all fields of agriculture.

The award shall be made for either fundamental or applied research including inventions, discoveries, etc. leading to results of practical value in the field of agricultural production.

5. Periodicity of the Award

The award shall be made once in two years.

6. Administration of the Award

The IARI shall retain the right to designate the general fields of endeavor in which the award shall be made.

The Institute shall have the sole right of selection of recipients of the award and of the formulation of rules governing such selection from time to time.

7. Eligibility for the Award:

Applicant should be an active scientist up to the age of 62 years and should have outstanding contributions in any field of agricultural sciences while working in India.

The award shall be made for notable or original research both fundamental and applied in particular subject as revealed in papers, books, monographs, patents or any other published account of outstanding research work, inventions or discoveries.

However, contributions or achievements which have received any other award, shall not be eligible for consideration of this Award.

8. Screening Committee

Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas to the concerning year for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairman of the Academic Council will nominate the Chairman for the Judging Committee and its members concerning the subject area to the concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairman & Member- Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of these committees and some other Scientist will be nominated by the Chairman, Academic Council in his/her place.

The function of the Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI.

In the opinion of the Judging Committee, if no deserving candidate is available, the award will not be given.

The award shall be given to only one person at one time and will not be shared.

10. Procedures for selection of recipient

Applications are invited from the scientists from all branches of Agricultural Sciences for the above award duly forwarded through concerned authorities. Each such application, which shall be in the prescribed form accompanied with detailed statement of the work and attainments of the candidate, to be submitted by a specific date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and short-listed applicants who secured a minimum of 75% marks.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

After the acceptance of the recommendations of the Judging Committee by the Academic Council, the award shall be announced.

11. Presentation of the Award

The award shall be made at the Convocation of the Institute and the awardee shall be required to deliver a lecture based on his/her contributions during the Convocation Week Programme.

The expenditure relating to the arrangements for the award and the TA/DA to the awardee to be paid as per the ICAR rules will be met out from the interest accrued from the deposit.

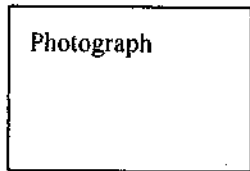


**Post Graduate School
ICAR-Indian Agricultural Research Institute
New Delhi**



Proforma for Sukumar Basu Memorial Award

Name of the Institute forwarding application :



Field/discipline:

1. Name of the candidate: -----
First
Middle
Surname

- a) Father's Name
- b) Mother's name

2. Designation:

3. Address:

4. Contacts: **Office:**
TELEPHONE
FAX
E-MAIL
Res.:
TELEPHONE
FAX
E-MAIL

5. Date of Birth:
 (Please provide the proof) _____
Day
Month
Year

6. (a) Academic Qualifications

Degree/Diploma	Year	Major field	University/ Institution	Division/ Distinction
Graduation				
Masters				
Ph.D.				
Any other degree/diploma				
Post Doctoral Experience				

(b) Training in India and/or Abroad (In the area relevant to the award)

Training	Institution/Country	Sponsored by	Duration	Subject

--	--	--	--	--

7. Employment status

Designation	Pay scale (Rs.)	Nature of work	Institute (Organization)	Period (From - To)

8. ACHIEVEMENTS

(a) Research

Sl. No.	Item*	Details in quantifiable and verifiable terms. Whether applicant is a Developer, Co-developer or Associate
1.	Product/Patent/ Variety/ Software developed	
2.	New Concept / Methodology/ Process/ Model developed	
3.	Advancement in science/Technologies generated	
4	The potential value/ Impact in terms of area coverage of technology/likely impact of research in Agricultural Sciences/ Commercialization of technology and revenue generation	

**Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.*

(b) Please state the most significant achievements in bullet form (Not more than 300 words)

--

9. (a) List 10 most important & highest NAAS rated publications in chronological order (Please attach one set of reprints)

S.No.	Name of Authors	Year of publication	Title of paper	Journal, Volume, Issue, page Nos.	NAAS Journal ID and NAAS Score	Number of citations based on ISI Science Citation Index
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

(b) Total no. of publications (Please give complete list covering all the below-mentioned details)

Research papers with NAAS score >6.0 (excluding those given at Sl. No. 9a above)

S.No.	Name of Authors	Year of publication	Title of paper	Journal, Volume, Issue, page Nos.	NAAS Journal ID	NAAS Score

(c) Other publications

S.No.	Item	Details
1	Books/Books edited*	
2	Book Chapters	
3	Scientific Review articles**	
4	Technical Bulletins/ Reports/Manuals	

* Authored/edited volume. ** Only in recognized journal.

10. Awards and Honors received

S. No.	Name of the Award/Honor	Year	National/ International	Academy/Institutional/ Professional Society

11. Please mention if this work has been submitted/ recognized for any other award.

12. Any other Information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

Date:

Place:

(Signature of the applicant)

"Certified that the information given by the candidate in this application has been verified and fully authenticated from the records and that there are no disciplinary action or proceedings pending or contemplated against the candidate"

Recommendation of the Head of the Institution

(Signature)
& Seal

Enclosures:

1. Application in original, duly forwarded and complete in all respect (5 copies)
2. Reprints of 10 most important papers listed at Sl. No. 9(a) of application
3. Documentary proof for the claims made in respect of technology, product, patent etc.

Allocation of marks (Sukumar Basu Memorial Award)

S. No.	Criteria	Maximum Marks	Weightage
1	Research achievements: (i) Products/ variety - 5 marks for each (ii) Technology - 5 marks for each (iii) Patents - 5 marks for each	40	
2	Commercialization of technologies	10	
3	Research Publications: Ten best and other papers	30	
4	Books, scientific reviews, manuals, bulletins, etc.	10	
5	Awards and Honors	10	
	Total Marks	100	80%
	Weightage for Judging Committee		20%

Products/variety, patents and Technology developed and commercialized*

- (i) Developer of each patented and commercialized product/technology/ each plant variety Gazette Notified by the CVRC/ animal, fish, bird breed (strain) authenticated by accredited body (national level) (5 marks each).
- (ii) Copyrighted commercialized software/trademark/IP protection (5 marks each)
- (iii) Patents granted with details of Patent No. (5 marks for each patent).

*Developer (one) shall be awarded 100% marks, Co-developers (max. two) 75% marks and associates 50% marks.

Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

Publications

- (i) For 10 most important publications (20 marks): Marks will be given according to the NAAS score of Journals (NAAS Score 20 = 2.0 marks). Each publication will be given a maximum of 2.0 marks with a cap of maximum 20 marks. *Attach one set of reprints of the 10 most important publications listed in the application.*
- (ii) For total publications (10 marks): For research papers other than the 10 most important publications, each publication will be given 0.5 mark with a cap of maximum 10 marks.
- (iii) For allotting the marks to 10 most important publications and total publications, first author will get full marks and rest of the authors 75% marks.
- (iv) For books (4 marks), Scientific reviews (2 marks), Manuals (2 marks), bulletin (2 marks): 1.0 mark each for Book, 0.5 mark each for Edited book, 0.25 mark each for Manuel, Scientific review paper, Bulletin, etc.

Awards and Honors

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (3 marks each limited to maximum 6 marks) (full marks to individual / leader, and 50% marks to associate).
- (ii) National and International level Professional Society and Academy (not covered above) Awards/Recognition (Fellowship; Lifetime Achievement Award; President, Editor-in-Chief (or equivalent), and Secretary positions) (0.5 mark each limited to maximum 4 marks).

Guidelines governing the "Hooker Award" for agricultural research leading to increase in food production

1. Name of the Award

The "Hooker Award" for Agricultural Research leading to increase in food production.

2. Donor of the Award

Late Mr. & Mrs. Richard Hooker of Longmeadow, Massachusetts, U.S.A.

3. Nature of the Award

The award will carry a sum of Rs. 15,000 and a Certificate for the outstanding research in agricultural science including animal husbandry and fisheries.

4. Objective of the Award

To create incentive for research workers in India for the purpose of improving food production in India.

The award shall be made for either fundamental or applied research including inventions, discoveries, etc. leading to results of practical value in the field of agricultural production.

5. Periodicity of the Award

The award shall be made once in two years.

6. Administration of the Award

The IARI shall retain the right to designate the general fields of endeavor in which the award shall be made.

The Institute shall have the sole right of selection of recipients of the award and of the formulation of rules governing such selection from time to time.

7. Eligibility for the Award

Applicant should be an active scientist up to the age of 62 years and should have outstanding contributions in any field of agricultural sciences while working in India.

The award shall be made for notable or original research both fundamental and applied in particular subject as revealed in papers, books, monographs, patents or any other published account of outstanding research work, inventions or discoveries.

However, contributions or achievements which have received any other award, shall not be eligible for consideration of the Hooker Award.

8. Screening Committee

Dean & Joint Director (Edn.) will constitute a Screening Committee consisting of 5 (five) members concerning the major areas to be concerned year for scrutinizing and scoring the applications. The quorum of the Screening Committee, for finalizing the recommendation shall be at least 4 members including Chair & Member-Secretary.

9. Judging Committee

There will be a Judging Committee consisting of at least 5 (five) members. The Chairman of the Academic Council will nominate the Chairman for the Judging Committee and its members concerning the subject area to be concerned year. Dean and Joint Director (Edn.), IARI will be the Member-Secretary of the Committee. The quorum of the Judging Committee, for finalizing the recommendation shall be at least 4 members including Chairman & Member-Secretary.

If any member of the Judging Committee himself/herself is to be considered for the award, he/she shall cease to be a member of these committees and some other Scientist will be nominated by the Chairman, Academic Council in his/her place.

The function of the Judging Committee shall recommend the name of the recipient for the award in accordance with procedure laid down hereinafter for approval of the Director, IARI. In the opinion of the Judging Committee, if no deserving candidate is available, the award will not be given.

The award shall be given to only one person at one time and will not be shared.

10. Procedures for selection of recipient

Applications are invited from the scientists from all branches of Agricultural Sciences for the above award duly forwarded through concerned authorities. Each such application, which shall be in the prescribed form accompanied with detailed statement of the work and attainments of the candidate, to be submitted by a specific date.

The Judging Committee shall recommend the name of the recipient for the award from the eligible and shortlisted applicants who secured a minimum of 75% marks.

The Award shall be withheld by the Judging Committee if in their opinion no sufficiently meritorious candidate is forthcoming in that year.

After the acceptance of the recommendations of the Judging Committee by the Academic Council, the award shall be announced.

11. Presentation of the Award

The award shall be made at the Convocation of the Institute and the awardee shall be required to deliver a lecture based on his/her contributions during the Convocation Week Programme.

The expenditure relating to the arrangements for the award and the TA/DA to the awardee to be paid as per the ICAR rules will be met out from the interest accrued from the deposit.



**Post Graduate School
Indian Agricultural Research Institute
New Delhi**



Proforma for Hooker Award

Photograph

Name of the Institute forwarding the application: _____

Field/discipline: _____

1. Name of the candidate: -----
First
Middle
Surname

- a) Father's Name
- b) Mother's name

2. Designation:

3. Address:

4. Contacts: **Office:**
TELEPHONE
FAX
E-MAIL
Res.:
TELEPHONE
FAX
E-MAIL

5. Date of Birth:
(Please provide the proof) _____
Day
Month
Year

6. (a) Academic Qualifications

Degree/Diploma	Year	Major field	University/ Institution	Division/ Distinction
Graduation				
Masters				
Ph.D.				
Any other degree/diploma				
Post Doctoral Experience				

(b) Training in India and/or Abroad (In the area relevant to the award)

Training	Institution/Country	Sponsored by	Duration	Subject

7. Employment status

Designation	Pay scale (Rs.)	Nature of work	Institute (Organization)	Period (From - To)

8. ACHIEVEMENTS

(a) Research

Sl. No.	Item*	Details in quantifiable and verifiable terms. Whether applicant is a Developer, Co-developer or Associate
1.	Product/Patent/ Variety/ Software developed	
2.	New Concept / Methodology/ Process/ Model developed	
3.	Advancement in science/Technologies generated	
4	The potential value/ Impact in terms of area coverage of technology/likely impact of research in Agricultural Sciences/ Commercialization of technology and revenue generation	

**Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.*

(b) Please state the most significant achievements in bullet form (Not more than 300 words)

9. (a) List 10 most important & highest NAAS rated publications in chronological order (Please attach one set of reprints)

S.No.	Name of Authors	Year of publication	Title of paper	Journal, Volume, Issue, page Nos.	NAAS Journal ID and NAAS Score	Number of citations based on ISI Science Citation Index
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

(b) Total no. of publications (*Please give complete list covering all the below-mentioned details*)

Research papers with NAAS score >6.0 (excluding those given at Sl. No. 9a above)

S.No.	Name of Authors	Year of publication	Title of paper	Journal, Volume, Issue, page Nos.	NAAS Journal ID	NAAS Score

(c) Other publications

S.No.	Item	Details
1	Books/Books edited*	
2	Book Chapters	
3	Scientific Review articles**	
4	Technical Bulletins/ Reports/Manuals	

*Authored/edited volume. **Only in recognized journal.

10. Awards and Honors received

S.No.	Name of the Award/Honor	Year	National/ International	Academy/Institutional/ Professional Society

11. Please mention if this work has been submitted/ recognized for any other award.

12. Any other Information

This is certified that all the information furnished by me is correct to the best of my knowledge and belief.

Date:

Place:

(Signature of the applicant)

"Certified that the information given by the candidate in this application has been verified and fully authenticated from the records and that there are no disciplinary action or proceedings pending or contemplated against the candidate"

Recommendation of the Head of the Institution

**(Signature)
& Seal**

Enclosures:

1. Application in original, duly forwarded and complete in all respect (5 copies)
2. Reprints of 10 most important papers listed at Sl. No. 9(a) of application
3. Documentary proof for the claims made in respect of technology, product, patent etc.

Allocation of marks (Hooker Award)

S. No.	Criteria	Maximum Marks	Weightage
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3	Research Publications: Ten most important and other papers	30	
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5	Awards and Honors	10	
	Total Marks	100	80%
	Weightage for Judging Committee		20%

Products/variety, patents and Technologies developed and commercialized*

- (i) Developer of each patented and commercialized product/technology/ each plant variety Gazette Notified by the CVRC/ animal, fish, bird breed (strain) authenticated by accredited body (national level) (5 marks each).
- (ii) Copyrighted commercialized software/trademark/IP protection (5 marks each)
- (iii) Patents granted with details of Patent No. (5 marks for each patent).

*Developer (one) shall be awarded 100% marks, Co-developers (max. two) 75% marks and associates 50% marks.

Documentary evidence should be enclosed for the patents/ copyright, adoption of products and technologies and their impact on livelihood of farmers/commercial value and acceptance by clients/stakeholders.

Publications

- (i) For 10 most important publications (20 marks): Marks will be given according to the NAAS score of Journals (NAAS Score 20 = 2.0 marks). Each publication will be given a maximum of 2.0 marks with a cap of maximum 20 marks. *Attach one set of reprints of the 10 most important publications listed in the application.*
- (ii) For total publications (10 marks): For research papers other than the 10 most important publications, each publication will be given 0.5 mark with a cap of maximum 10 marks.
- (iii) For allotting the marks to 10 most important publications and total publications, first author will get full marks and rest of the authors 75% marks.
- (iv) For books (4 marks), Scientific reviews (2 marks), Manuals (2 marks), bulletin (2 marks): 1.0 mark each for Book, 0.5 mark each for Edited book, 0.25 mark each for Manuel, Scientific review paper, Bulletin, etc.

Awards and Honors

- (i) Awards by ICAR, CSIR, DST, DBT, NRDC, National Science Academies, etc. (3 marks each limited to maximum 6 marks) (full marks to individual / leader, and 50% marks to associate).
- (ii) National and International level Professional Society and Academy (not covered above) Awards/Recognition (Fellowship; Lifetime Achievement Award; President, Editor-in-Chief (or equivalent), and Secretary positions) (0.5 mark each limited to maximum 4 marks).

ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/CIAE
ACADEMIC YEAR 2018-19

S No.	Roll No.	Name	Category	Scheme	INSTT.
		01- Agricultural Chemicals			
1	0100004	ARKADEB MUKHOPADHYAY	GEN	Open	IARI
2	0100006	KAILASH PATI TRIPATHI	GEN	Open	IARI
3	0100005	DEBDAS CHAND	OBC*	Open	IARI
4	0100002	AJITH M	OBC	Open	IARI
5	0100010	SUTANWA SAHA	SC	Open	IARI
6	0100009	SUDAMA RAM SAHU	OBC	Open	IARI
		02- Agricultural Economics			
7	0200032	MUTHUPRASAD T	OBC*	Open	IARI
8	0200034	NIRANJAN SIVALINGAM	OBC*	Open	IARI
9	0200007	B J GIRIDHAR	OBC	Open	IARI
10	0200055	SRINATHA T N	ST	Open	IARI
11	0200033	NAVEEN KUMAR NAIK	SC	Open	IARI
		03-1 Agricultural Engineering (Agricultural Processing & Structure)			
12	0310001	ABHINAV DUBEY	GEN	Open	IARI
13	0310044	RAM PRAKASH KUMAR	OBC*	Open	CIAE
14	0310042	RAJEEV RANJAN THAKUR	GEN	Open	CIAE
15	0310036	PURAMSHETTI LAVANYA	OBC*	Open	CIAE
16	0310025	MONIKA SATANKAR	SC	Open	IARI
17	0310017	KANUPRIYA CHOUDHARY	OBC	Open	CIAE
18	0310052	SANKET RAMNATH SAWANT	SC TRI	Open	IARI
19	0310040	RAHUL SUBHASH YADAV	GEN	ICAR In-service	CIAE
20	0310023	MATHANGI RAJA SEKHAR	SC	Open	CIAE
21	0310021	LALITA	ST	Open	CIAE
		03-2 Agricultural Engineering (Farm Power & Equipments)			
22	0320130	PANKAJ MALKANI	GEN	Open	IARI
23	0320122	MOHIT KUMAR	GEN	Open	IARI
24	0320078	AMAN MAHORE	OBC*	Open	CIAE
25	0320153	VINITA KASHYAP	OBC*	Open	CIAE
26	0320126	NALAWADE ROHIT DILP	GEN	Open	CIAE
27	0320124	MUKESH KUMAR CHOUDHARY	OBC	Open	IARI
28	0320077	ABHISHEK KUMAR	OBC	Open	CIAE
29	0320090	BHAGWAN SINGH NARWARIYA	OBC	Open	CIAE
30	0320083	ARUDRA SRINIVASA RAO	OBC	FUS	IARI
31	0320106	JAGJEET SINGH	SC	Open	CIAE
32	0320084	ASHA K R	ST	Open	IARI

[Signature]
1/13/18

[Signature]
6/7/18

[Signature]
1/13/18

[Signature]

**ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/ CIAE
ACADEMIC YEAR 2018-19**

S No.	Roll No.	Name	Category	Scheme	INSTT.
<u>03-3 Agricultural Engineering (Soil & Water Conservation Engineering)</u>					
33	0330206	VENKATESH	GEN	Open	IARI
34	0330158	ALOK GUPTA	GEN	Open	IARI
35	0330156	ABHISHEK PATEL	OBC*	Open	CIAE
36	0330161	ASLAM LATIF PATHAN	GEN	ICAR In- service	IARI
37	0330198	SHEEJA P S	OBC TR	Open	IARI
38	0330162	ATISH SAGAR	OBC TR	Open	IARI
39	0330176	KETHAVATH AJAYKUMAR	ST TR	Open	IARI
40	0330192	RADHIKA SAHU	PC(OBC)	Open	IARI
<u>04- Agricultural Extension</u>					
41	0400005	AISWARYA S	GEN	Open	IARI
42	0400063	RAHUL MANDAL	SC*	Open	IARI
43	0400032	GANGUBAI S MANAGULI	OBC*	Open	IARI
44	0400045	MANJUNATH H	GEN	Open	IARI
45	0400071	SANJAY KUMAR GUPTA	OBC	Open	IARI
46	0400011	ANA RAJ J	OBC	Open	IARI
<u>05- Agricultural Physics</u>					
47	0500027	SUNNY ARYA	GEN	Open	IARI
48	0500026	SUJAN ADAK	GEN	Open	IARI
49	0500006	DEBASISH ROY	SC*	Open	IARI
50	0500014	MOHAMMED SHAFEEQ P M	OBC	Open	IARI
51	0500031	VIMAL KUMAR	SC	Open	IARI
<u>06- Agricultural Statistics</u>					
52	0600020	GARIMA SINGH	GEN	Open	IARI
53	0600030	KAPIL CHOUDHARY	OBC*	Open	IARI
54	0600028	JITENDRA KUMAR	OBC*	Open	IARI
55	0600056	SANDIPAN SARKAR	SC	Open	IARI
56	0600036	MAHALINGARAYA PRAKASH CHANGOND	ST	Open	IARI
57	0600057	SAYANTANI KARMAKAR	OBC	Open	IARI
<u>07- Agronomy</u>					
58	0700156	VARATHARAJAN T	GEN	Open	IARI
59	0700025	BISWARANJAN BEHERA	OBC*	Open	IARI
60	0700134	SOMANATH NAYAK	OBC*	Open	IARI
61	0700131	SHUBHAM MARAK	GEN	Open	IARI

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6/7/18

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6/7/18

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6/7

ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/ICAE
ACADEMIC YEAR 2018-19

S No.	Roll No.	Name	Category	Scheme	INSTT.
		<u>12- Environmental Sciences</u>			
92	1200034	PARTHA PRATIM MAITY	OBC*	Open	IARI
93	1200020	JITU MANDOL	SC*	Open	IARI
94	1200043	PRIYANKA MEENA	ST	Open	IARI
95	1200012	CHANDRA PRAKASH	OBC	Open	IARI
96	1200036	PRAKASH KUMAR	PC (OBC)	Open	IARI
97	1200028	NAVEEN MALIK	CWSF	Open	IARI
98	1200038	PRATIBHA PRAKASH	SC	Open	IARI
		<u>13- Floriculture and Landscape Architecture</u>			
99	1300006	BIBIN POULOSE	GEN	Open	IARI
100	1300039	UZMA MEHRAJ	GEN	Open	IARI
101	1300024	POOJA A	SC	Open	IARI
102	1300026	PRIYA YADAV	OBC	Open	IARI
103	1300021	NEERAJ SINGH NEGI	CWSF	Open	IARI
104	1300008	CHANDER PRAKASH	SC TR	Open	IARI
		<u>14- Fruit Science</u>			
105	1400061	SHWETA K HADAKAR	OBC*	Open	IARI
106	1400048	PRASAD SHIVAPPA KAROSHI	GEN	Open	IARI
107	1400035	NARENDRA SINGH	GEN	Open	IARI
108	1400014	DARSHAN MANIKRAO KADAM	GEN	ICAR In- service	IARI
109	1400057	REENA PRUSTY	OBC	Open	IARI
110	1400037	NAVEEN KUMAR MAURYA	OBC TR	Open	IARI
111	1400025	KULDEEP PANDEY	CWSF	Open	IARI
112	1400021	JADHAV AMOL KAILAS	SC	Open	IARI
113	1400039	NAYAN DEEPAK G	GEN	ICAR In- service	IARI
		<u>15- Genetics and Plant Breeding</u>			
114	1500226	SUMAN DUTTA	GEN	Open	IARI
115	1500002	ABHIJITH K.P	GEN	Open	IARI
116	1500115	LIMBALKAR OMKAR MAHARUDRA	OBC*	Open	IARI
117	1500149	NILESH JOSHI	GEN	Open	IARI
118	1500088	HARSHAVARDHANA Y S	OBC*	Open	IARI
119	1500178	RAHUL KUMAR	SC*	Open	IARI
120	1500228	SUNILKUMAR V P	GEN	Open	IARI
121	1500034	ASHVINKUMAR KATRAL	OBC	Open	IARI
122	1500250	VIJAY KAMAL MEENA	ST	Open	IARI

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**ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/ICAR
ACADEMIC YEAR 2018-19**

S No.	Roll No.	Name	Category	Scheme	INSTT.
62	0700087	NIRAJ BISWAKARMA	SC*	Open	IARI
63	0700102	RADHESHYAM	OBC	Open	IARI
64	0700017	AYESHA FATIMA	OBC	Open	IARI
65	0700160	VIJAY PRATAP	SC	Open	IARI
66	0700071	MANU S M	SC	Open	IARI
67	0700107	RAJESH KUMAR	SC	Open	IARI
		<u>08- Biochemistry</u>			
68	0800026	PRATHAP V	OBC*	Open	IARI
69	0800015	JOSHNA JOSE	GEN	Open	IARI
70	0800041	THAKARE SWAPNIL SHARADRAO	OBC*	Open	IARI
		<u>09- Bioinformatics</u>			
71	0900005	ANKITA NEGI	GEN	Open	IARI
72	0900002	AAMIR KHAN	GEN	Open	IARI
73	0900011	DIPRO SINHA	GEN	Open	IARI
		<u>10- Computer Application</u>			
74	1000004	DEBDALI CHOWDHURY	GEN	Open	IARI
75	1000020	VAIJANATH SHIVALINGAPPA KUMASAGI	OBC*	Open	IARI
76	1000021	VIVEK KUMAR	PC (OBC*)	Open	IARI
77	1000006	LAKSHMI SONKUSALE	ST	Open	IARI
78	1000013	RAMESH PRAJAPAT	OBC	Open	IARI
79	1000005	INDRESH BAHADUR RAJWADE	GEN	FUS	IARI
		<u>11- Entomology</u>			
80	1100046	GEETHU S	GEN	Open	IARI
81	1100109	RANJITH H V	GEN	Open	IARI
82	1100148	TANMAYA KUMAR BHOI	GEN	Open	IARI
83	1100015	ARYA P S	OBC	Open	IARI
84	1100043	GAURAV SINGH	CWSF	Open	IARI
85	1100053	HARISHA H R	OBC TR	Open	IARI
86	1100080	MOGILI RAMAIAH	OBC TR	Open	IARI
87	1100005	ANIL	SC	Open	IARI
88	1100101	PRABHULINGA T	OBC	ICAR In- service	IARI
89	1100065	KIRAN KUMAR G N	SC TR	Open	IARI
90	1100047	GOPALAKRISHNAN R	SC TR	Open	IARI
91	1100107	RAKESH KUMAR	SC	DS	IARI

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ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/ICAR
ACADEMIC YEAR 2018-19

S No.	Roll No.	Name	Category	Scheme	INSTT.
123	1500231	SURESH YADAV	OBC	Open	IARI
124	1500153	PALAPARTHI DHARMATEJA	OBC	Open	IARI
125	1500252	VINITA RAMTEKEY	SC	Open	IARI
126	1500075	GANGADHARA K N	ST	Open	IARI
		<u>16- Microbiology</u>			
127	1600106	SHRINIKETAN PURANIK	GEN	Open	IARI
128	1600012	BABAN PREET KOUR	GEN	Open	IARI
129	1600104	SHIVARANJAN C S	OBC*	Open	IARI
130	1600122	VIKRAM K V	OBC	Open	IARI
131	1600053	NISHANTH S	SC	Open	IARI
132	1600002	ANIL KUMAR	OBC	Open	IARI
		<u>17- Molecular Biology and Biotechnology</u>			
133	1700223	SOURAV KUMAR DAS	GEN	Open	IARI
134	1700230	SUHAS GORAKH KARKUTE	GEN	ICAR In-service	IARI
135	1700133	NILADRI BARMAN	SC*	Open	IARI
136	1700044	BIPRATIP DUTTA	OBC*	Open	IARI
137	1700200	SHEEL YADAV	GEN	DS	IARI
138	1700049	CHITRA JOSHI	GEN	Open	IARI
139	1700011	AKASH PAUL	OBC	Open	IARI
140	1700175	SAAKRE MANJESH	OBC	Open	IARI
141	1700239	TAKU MONYA	ST	Open	IARI
142	1700121	MONIKA BHARATI	SC	Open	IARI
		<u>18- Nematology</u>			
143	1800003	AMIT AHUJA	GEN	Open	IARI
144	1800018	VINAY K Y	OBC*	Open	IARI
145	1800013	SATISH NAMDEO CHAVAN	GEN	ICAR In-service	IARI
146	1800014	SOWMYA R	OBC	Open	IARI
147	1800001	AJAY SINGH SINDHU	CWSF	Open	IARI
		<u>19- Plant Genetic Resources</u>			
148	1900003	LAXMISHA K M	GEN	Open	IARI
149	1900008	PRABHU P	OBC*	Open	IARI
150	1900009	PUNEETH G M	OBC*	Open	IARI
151	1900001	ASWIN M	OBC	Open	IARI
152	1900006	NAVAL KISHOR MEENA	ST	Open	IARI


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ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/ICAR
ACADEMIC YEAR 2018-19

S No.	Roll No.	Name	Category	Scheme	INSTT.
		<u>20- Plant Pathology</u>			
153	2000038	JAGMOHAN SINGH	GEN	Open	IARI
154	2000081	NAVEEN NAYAKA S	ST*	Open	IARI
155	2000132	SHREENATH Y S	OBC*	Open	IARI
156	2000014	ASHARANI PATEL	OBC	Open	IARI
157	2000061	MANOJ KUMAR YADAV	OBC	ICAR In-service	IARI
158	2000097	PRASHANTHA S T	PC (GEN)	Open	IARI
159	2000166	VINEETH VIJAYAN	OBC	Open	IARI
160	2000036	HEMAVATI RANEBENNUR	GEN	ICAR In-service	IARI
161	2000072	MRUTYUNJAYA S	SC	Open	IARI
162	2000054	MADHU G S	OBC	Open	IARI
163	2000110	RAJENDER JATOTH	ST	FUS	IARI
		<u>21- Plant Physiology</u>			
164	2100017	BIRENDRA KUMAR PADHAN	OBC*	Open	IARI
165	2100049	PANDURANG RAGHUNATH DIVTE	OBC*	Open	IARI
166	2100020	DIPANKAR BARMAN	GEN	Open	IARI
167	2100035	MALINI MK	SC	Open	IARI
168	2100075	SHASHI MEENA	ST TR	Open	IARI
169	2100045	NISHA	SC TR	Open	IARI
170	2100091	VIJAY. R	OBC	Open	IARI
		<u>22-1 Post Harvest Technology (PHT of Horticultural Crops)</u>			
171	2210015	MONIKA G TOTAD	GEN	Open	IARI
172	2210017	POOJA B. K.	OBC	Open	IARI
		<u>22-2 Post Harvest Technology (Post Harvest Engineering & Technology)</u>			
173	2220025	GOWTHAM R	OBC	Open	IARI
		<u>23- Seed Science and Technology</u>			
174	2300018	NIRANJAN PRASAD H P	GEN	Open	IARI
175	2300029	SATISH KUMAR	GEN	Open	IARI
176	2300009	KARABI BANIA	SC*	Open	IARI
177	2300021	PRAVEEN KUMAR YADAV	OBC TR	Open	IARI
178	2300006	DILSHAD AHMAD	PC (OBC)	Open	IARI
179	2300008	JAYASRI S	SC	Open	IARI
180	2300022	PREETI SAGAR NEGI	ST	Open	IARI

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ICAR-INDIAN AGRICULTURAL RESEARCH INSTITUTE Ph.D. ENTRANCE EXAM 2018
LIST OF SELECTED CANDIDATES FOR ADMISSION TO Ph.D. PROGRAMME AT IARI/CIAE
ACADEMIC YEAR 2018-19

S No.	Roll No.	Name	Category	Scheme	INSTT.
<u>24- Soil Science and Agricultural Chemistry</u>					
181	2400007	ANSHUMAN DAS	GEN	Open	IARI
182	2400060	KINGSHUK MODAK	SC*	Open	IARI
183	2400067	MD BASIT RAZA	GEN	Open	IARI
184	2400002	AJIN S ANIL	OBC*	Open	IARI
185	2400012	ATHULYA S	GEN	Open	IARI
186	2400078	NAVEENKUMAR A	OBC	Open	IARI
187	2400037	GANPAT LOUHAR	OBC	Open	IARI
188	2400055	JYOTIRMAYA SAHOO	OBC	Open	IARI
189	2400059	KAVITHA PANDU JADHAV	SC	Open	IARI
<u>25- Vegetable Science</u>					
190	2500017	BHANUSHREE N	OBC*	Open	IARI
191	2500001	ABHAY VIKRAM SINGH	GEN	Open	IARI
192	2500076	PUNEETH P V	OBC*	Open	IARI
193	2500042	IPSITA PANIGRAHI	GEN	Open	IARI
194	2500122	YOGANANDA H S	OBC	Open	IARI
195	2500086	RAMESHWAR MEENA	ST	Open	IARI
196	2500093	SAHANA K P	OBC	Open	IARI
197	2500063	PADMANABHA K	PC (GEN)	FUS	IARI
198	2500040	HARISHA S M	SC	Open	IARI
199	2500041	HIRA SINGH	GEN	FUS	IARI
200	2500119	VISHWANATH BIDARAMALI	SC	Open	IARI
<u>26- Water Science and Technology</u>					
201	2600007	MANJUNATH DALI	OBC*	Open	IARI
202	2600004	MAHEKPREET KAUR	GEN	Open	IARI
203	2600009	NEHA SINGHAL	GEN	Open	IARI
204	2600011	RAGHAV MAURYA	OBC*	Open	IARI
205	2600002	ASHOK IRAPPA HALLI	OBC	Open	IARI
206	2600013	SMITA JAISWAL	OBC	Open	IARI
207	2600008	MONALISHA PRAMANIK	OBC	ICAR In- service	IARI

Note: 1. The results are provisional subjected to the fulfillment of eligibility criteria laid down in the information bulletin

2. * indicates seats under General Category filled by OBC/SC/ST candidates
3. TR indicates transferred seats within the Category from unfilled OBC/SC/ST
4. ICAR In-service: ICAR in-service nominee Scheme
5. FUS: Faculty Upgradation Scheme for SAUs
6. DS: Departmental Scientific
7. PC: Physically Challenged
8. CWSF: Children/Widows of Security Forces

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DISCIPLINEWISE PROPOSED SEATS FOR PH.D.(2018-19)

TABLE-I

Sl. No.	Discipline	Disciplinewise Filled in Position of Seats for Ph.D.(2018-19)												
		REG	REG	SC	ST	PH	Tea	GR	REG	SC	ST	PH	ANES	Total
A. IARI, New Delhi														
1.	AGRICULTURAL CHEMICALS	3	2	1	0	0	6	3	2	1	0	0	0	6
2.	AGRICULTURAL ECONOMICS	2	1	1	1	0	5	2	1	1	0	0	0	5
3.	AGRICULTURAL ENGG. (Agricultural Processing & Structure)	1	0	1	0	0	2	1	0	2	0	0	0	3
4.	AGRICULTURAL ENGG. (Farm Power & Equipment)	2	1	0	1	0	4	2	1	0	1	0	1	5
5.	AGRICULTURAL ENGG. (Soil & Water Conservation Engineering)	2	1	0	0	0	3	2	3	0	1	1	1	7
4	AGRICULTURAL EXTENSION	4	2	1	0	0	7	4	2	0	0	0	0	6
7.	AGRICULTURAL PHYSICS	3	1	1	0	0	5	3	1	1	0	0	0	5
8.	AGRICULTURAL STATISTICS	3	3	1	1	0	8	3	1	1	0	0	0	6
9.	AGRONOMY	5	2	3	0	0	10	5	2	3	0	0	0	10
10.	BIOCHEMISTRY	3	2	0	0	0	5	3	0	0	0	0	0	3
11.	BIOINFORMATICS	3	1	1	0	0	5	3	0	0	0	0	0	3
12.	COMPUTER APPLICATION	3	1	1	0	0	5	3	0	0	0	0	0	3
13.	ENTOMOLOGY	3	1	1	1	1	6	3	1	0	1	1	1	6
14.	ENVIRONMENTAL SCIENCES	2	2	1	1	0	5	3	3	0	0	0	3	12
15.	FLORICULTURE AND LANDSCAPING ARCHITECTURE	2	1	1	1	1	6	2	2	1	1	1	1	7
16.	FRUIT SCIENCE	2	1	1	0	0	4	2	1	2	0	0	1	6
17	GENETICS AND PLANT BREEDING	3	1	1	0	0	5	3	2	1	0	0	3	9
18.	IMMUNOLOGY	7	3	1	1	2	13	7	3	1	2	0	0	13
19.	MOLECULAR BIOLOGY AND BIOTECHNOLOGY	3	2	1	0	0	6	3	2	1	0	0	0	6
20.	NEMATODOLOGY	4	2	1	1	0	8	4	2	1	1	0	2	10
21.	PLANT GENETIC RESOURCES	2	1	1	0	0	4	2	1	0	0	0	2	5
22.	PLANT PATHOLOGY	3	1	0	1	0	5	3	1	0	1	0	0	5
23.	PLANT PHYSIOLOGY	4	3	1	1	1	9	4	3	1	0	1	3	11
24.	POST HARVEST TECH. (PHT of Horticultural Crops)	3	2	1	0	0	6	3	1	2	1	0	0	7
25.	POST HARVEST TECH. (Post Harvest Engineering & Technology)	1	1	0	0	0	2	1	1	0	0	0	0	2
26.	SEED SCIENCE AND TECHNOLOGY	0	1	0	0	0	1	0	1	0	0	0	0	1
27.	SOIL SCIENCE AND AGRICULTURAL CHEMISTRY	3	1	1	1	1	6	3	2	1	1	0	0	7
28.	VEGETABLE SCIENCE	5	3	1	0	0	9	5	3	1	0	0	0	9
29.	WATER SCIENCE AND TECHNOLOGY	4	2	2	2	1	10	4	2	2	1	1	2	11
		4	2	1	0	0	7	4	2	0	0	0	1	7
	Total-A	87	46	26	13	5	172	87	46	26	13	6	21	193
B. CIAE, Bhopal														
a.	AGRICULTURAL ENGG. (Agricultural Processing & Structure)	3	1	1	1	1	6	3	1	1	1	0	1	7
b.	AGRICULTURAL ENGG. (Farm Power & Equipment)	3	2	1	0	0	6	3	2	1	0	0	0	6
c.	AGRICULTURAL ENGG. (Soil & Water Conservation Engineering)	1	0	0	0	0	1	1	0	0	0	0	0	1
	Total-B	7	3	2	1	1	13	7	3	2	1	0	1	14
	Grand Total	94	49	28	14	6	185	94	49	28	14	6	22	207

