

Evaluative Report of the Department

1. Name of the Department **Entomology & Agricultural Zoology, I.Ag.Sc., B.H.U.**
2. Year of establishment **1971**
3. Is the Department part of a School/Faculty of the university? **Faculty of University**
4. Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) **UG, PG and Ph.D.**
5. Interdisciplinary programmes and departments involved **NA**
6. Courses in collaboration with other universities, industries, foreign institutions, etc. **NA**
7. Details of programmes discontinued, if any, with reasons **NA**
8. Examination System: Annual/Semester/Trimester/Choice Based Credit System **Semester**
9. Participation of the department in the courses offered by other departments

Faculty members are engaged in course offered by Deptt. of Soil Science

10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	01	
Associate Professors	04	01	
Asst. Professors	07	07	
Others			

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
<i>Dr. Paras Nath</i>	Ph.D., Entomology & Agricultural Zoology	<i>Professor</i>	<i>Ecology, Insect Pest Management</i>	29	03
<i>Dr. N. N. Singh</i>	Ph.D., Entomology & Agricultural Zoology	<i>Professor</i>	<i>Insect Pest Management and Biological Control</i>	29	02

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. students guided for the last 4 years
Dr. C. P. Srivastava	Ph.D., Agricultural Entomology & Zoology	Professor	Insect Pest Management and Biological control	22	03
Dr. P. S. Singh	Ph.D., Entomology & Agricultural Zoology	Professor	Insect Pest Management (Pulse- MULLaRP)	30	NIL
Dr. R. N. Singh	Ph.D., Entomology & Agricultural Zoology	Professor	Acarology	22	01
Dr. S.V.S. Raju	Ph.D., Entomology & Agricultural Zoology	Professor	Insect Physiology, Toxicology, Insecticide Resistance Management	22	NIL
Dr. M. Raghuraman	Ph.D., Entomology	Assistant Professor	Insect Toxicology Insect Systematics	09	NIL
Dr. Ram Keval	Ph.D., Entomology & Agricultural Zoology	Assistant Professor	Insect Pest Management (Pulse-Pigeonpea)	06	01
Dr. R. S. Meena	Ph.D., Entomology & Agricultural Zoology	Assistant Professor	Insect Taxonomy	03	NIL

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

13. Percentage of classes taken by temporary faculty - programme-wise information NIL

14. Programme-wise Student Teacher Ratio

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

Academic support staff	Sanctioned	Filled
Technical	Pooled by Director Office	
STA		02
Lab Assistant		01
Lab. Attendant		01
Administrative		
Spl. Asstt.		01
Peon		02

16. Research thrust areas as recognized by major funding agencies

- Insecticide Toxicology

- Integrated Pest Management
- Insect Biosystematics
- Biological Control
- Acarology

17. Number of faculty with ongoing projects from

- a) national : 04
- b) international funding agencies and
- c) Total grants received : 217.21 Lakh

Give the names of the funding agencies, project title and grants received project-wise.

Title of the Project	Funding Agency	Total Outlay (Rs. In Lakh)
Network Project on Insect Biosystematics (NPIB) / P-27/113	ICAR New Delhi	95.05
Establishment of bio-control laboratory for mass production of bio- agents at Banaras Hindu University, Varanasi / P-26/81	State Horticulture Mission via UPCAR	80.00
Seed Production in Agricultural Crop and Fisheries/ 3086	ICAR New Delhi	28.00
Insect pests and diseases of Jatropha & the potential for their management in eastern Uttar Pradesh"/ P-27/120	NOVOD, Ministry of Agriculture, GOI	14.16

Ongoing Research Projects (Running through 2012-13) :

S.No.*	Title of the Project	Funding Agency	Name(s) of P.I./ Co-P.I.(s)	Total Outlay (Rs. in lac.)	Date of	
					Start	Completion
1.	Network Project on Insect Biosystematics	ICAR, New Delhi.	Dr. M. Raghuraman	1,13,94,000/-	20.12.05	Ongoing
2.	Field evaluation fipronil in rice	Bayer Crop Science Ltd. Mumbai.	Dr. M. Raghuraman	3,84,000/-	2012-14	Ongoing
3.	Increasing Chick peaNFSM-Pulses for 2012-2013 (M-21-97)	NCIPM, New Delhi	Dr. C.P Srivastava	29,85,225/-	2012-2013	Ongoing

*Number of rows may be increased or decreased as per need.

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration : All India collaboration : Network Project on Insect

b) International collaboration

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : NA

20. Research facility / centre with

- state recognition
- national recognition : Nodal centre for Apterygote insects under national level (under ICAR network Project)
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies

Bio-control laboratory sponsored by State Horticulture Mission and U.P. Council of Agricultural Research.

22. Publications:

- * Number of papers published in peer reviewed journals (national / international) : 99
- * Monographs : 01
- * Chapters in Books : 12
- * Edited Books : NIL
- * Books with ISBN with details of publishers :
- * Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- * Citation Index - range / average
- * SNIP
- * SJR
- * Impact Factor - range / average
- * h-index

23. Details of patents and income generated : NA

24. Areas of consultancy and income generated : NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : 02

26. Faculty serving in

a) National committees

Prof. C.P. Srivastava:

(i) Member, Standing Committee of National Mission on Education through Information and Communication Technology (NMEICT) under MHRD, New Delhi from August 2010 onwards

(ii) Nominated as Vice President of Society of Plant Protection Sciences, New Delhi from August 2012

Prof. R.N. Singh

(i) Prof. R.N. Singh, Member, Expert Committee, Resistant Pest Management

Newsletter for South Asia

b) International committees

Prof. N.N. Singh

(i) Appointed Chairman of VII Asia-Pacific Conference of Entomology to be held in India during 2013.

c) Editorial Boards

d) any other (please specify)

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

28. Student projects : NA

- percentage of students who have done in-house projects including inter-departmental projects
- percentage of students doing projects in collaboration with other universities / industry / institute

29. Awards / recognitions received at the national and international level by

- Faculty

1	Prof. Janardan Singh	Life time achievement award for contribution in Acarology.	International Congress on Acarology Taylor & Francis Group, London.
2	Prof. N.N. Singh	Chairman of VII Asia Pacific Conference of Entomology (APCE) to be held in 2013.	Asia Pacific Association of Entomology.

		Conferred Fellow	Indian Society for the advancement of Insect, Science, Ludhiana.
3	Prof. C.P.Srivastava	Awarded Scientists INSA Exchange Fellowship to visit China.	INSA, New Delhi.
		Late Shri P.P. Singhal Memorial Award 2013	PI Industries Ltd., Udaipur
4	Prof. R.N.Singh	Awarded Scientists INSA Exchange Fellowship to visit Japan.	I NSA, New Delhi.
5	Prof. N.N. Singh, Prof. P. Nath, Prof. C.P. Srivastava, Prof. P. S. Singh, Prof. R. N. Singh, Prof. S.V.S. Raju, Dr. M. Raghuraman, Dr. Ram Keval	Conferred fellow of Entomological Society of India.	Entomological Society of India, IARI, New Delhi.
6	Dr. M. Raghuraman	Best Teacher Award 2012-13	ICAR/BHU
7	Dr. Ram Keval	Best Interacting Scientist Award 2012-13	BHU

- Doctoral / post doctoral fellows
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. : NA

31. Code of ethics for research followed by the departments

32. Student profile programme-wise:

Name of the Course (refer to question no. 4) Entomology	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc. (Ag.) 2009-10		09	01	61.53	100
2010-11		14	01	77.00	100
2011-12		14	02	85.71	100

Name of the Course (refer to question no. 4) Entomology	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
2012-13		14	03	13-Pursuing course	03-Pursuing course
Ph.D. 2009-10		05	NIL	03- Pursuing course 01 -Passed	NIL
2010-11		01	NIL	01-Pursuing course	NIL
2011-12		04	NIL	04-Pursuing course	NIL
2012-13		05	01	05- Pursuing course	01- Pursuing course

33. Diversity of students

Name of the Course (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
PG 2009-10	14.28	21.42	57.14	07.14
2010-11	15.78	26.31	52.63	5.26
2011-12	18.75	43.75	37.50	NIL
2012-13	17.65	35.29	47.06	NIL
Ph.D. 2009-10	20	80	NIL	NIL
2010-11	NIL	100	NIL	NIL
2011-12	50	50	NIL	NIL
2012-13	50	16.7	33.3	NIL

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

35. Student progression

Student progression	Percentage against enrolled
UG to PG	16.61
PG to M.Phil.	
PG to Ph.D.	40
Ph.D. to Post-Doctoral	
Employed	
• Campus selection	
• Other than campus recruitment	
Entrepreneurs	

36. Diversity of staff

Percentage of faculty who are graduates	
of the same university	03
from other universities within the State	03

from universities from other States	03
from universities outside the country	NIL

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NA
38. Present details of departmental infrastructural facilities with regard to
- a) Library : NIL
- b) Internet facilities for staff and students : YES
- c) Total number of class rooms : 01
- d) Class rooms with ICT facility : 01
- e) Students' laboratories : 01
- f) Research laboratories : 08
39. List of doctoral, post-doctoral students and Research Associates
- a) from the host institution/university
- b) from other institutions/universities
40. Number of post graduate students getting financial assistance from the university. : 07
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.
42. Does the department obtain feedback from
- a. faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
- c. alumni and employers on the programmes offered and how does the department utilize the feedback?
43. List the distinguished alumni of the department (maximum 10)
44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.
- A guest lecture was delivered on 2.11.2012 on "Management of Rodents in India" by Prof. R.S. Tripathi, National Coordinator, All India Network Project on Rodent Control.

45. List the teaching methods adopted by the faculty for different programmes.
- **Lectures**
 - **Special Lectures**
 - **Presentation**
 - **Group discussion**
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?
47. Highlight the participation of students and faculty in extension activities.
- a. Kisan Mela, Main Campus
 - b. Kisan Gosthi
 - c. Kisan Mela outside Varanasi: Jaunpur, Barkacha, Mirzapur
48. Give details of “beyond syllabus scholarly activities” of the department.
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.
- a. Developed IPM modules for vegetables and pulses
 - b. Mass production of Biocontrol Agents
 - c. Insecticide Resistance Management
 - d. Documented different soil insects important to agriculture
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- a. Trained faculty members
- b. Well established infrastructure
- c. Excellent student strength

Weakness

- a. Lack of mobility
- b. Teaching positions lying vacant for a long period
- c. Non availability of lodging facility for farmers

Opportunities

- a. International collaboration
- b. ICT mediated transfer of technology
- c. Linkage with ICAR

Challenges

- a. Continued adoption of innovations and IPM technology by farmers

52. Future plans of the department.

Testing of IPM modules

Bio Systematic studies

Mass production of bio-agents

Establishment of Insect bio-technology Lab.

Molecular Mechanism of Insecticide resistance in crop-pests

Development of Insecticide resistant strain of bio-agents

Declaration by the Head of the Institution

I certify that that the data included in this Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

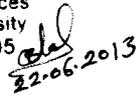
I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.



Signature of the Head of the institution

with **HEAD**

Department of Entomology & Agril. Zoology
Institute of Agril. Sciences
Banaras Hindu University
VARANASI-221 005



22.06.2013

Place:

Date: