



Visva-Bharati

Santiniketan 731235

INDIA

SELF-STUDY REPORT

Part - C

Vol. 3

Evaluative Report of the Departments

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Evaluative Report of the Palli Siksha Bahavana



The seed of Sriniketan was sown in the mind of Gurudev in 1890 when he was about 29 years old and was sent to Shilaidah by his father, Maharshi Devendranath Tagore to take charge of the family estates in eastern part of Bengal. There, for the first time he came in close contact with the village life. The poverty and misery left a deep impression in his mind and he decided that he must do something for the rural people and began to sketch all kinds of plans in his mind. At Shilaidah he had learnt the lesson that “we cannot help merely by our willingness to help. There is nothing so dangerous as inexpert service”. Gurudev sent his son Rathindranath Tagore and a friend’s son Santosh Chandra Majumdar to Illinois, USA in 1906 to study Agriculture and Animal Husbandry, respectively. In 1912, Rabindranath purchased the Kuthibari of Surul (present location of Rural Reconstruction Department – Palli Samgathana Vibhaga) which was a jungle infested and malaria ridden area. In 1923, Dairy farm was shifted from Santiniketan to Sriniketan and Poultry and Goatery units were added. The Dairy was originally started in 1901 with some cows and buffaloes with the idea that it would not only solve the problem of supplying pure and clean milk to ashrama

students but also by taking care of animals themselves, the ashrama students would gain some knowledge of animal husbandry. Next important event in the genesis of agricultural education at Sriniketan was Tagore's meeting with Leonard K. Elmhirst, an English youth, in 1920, while the latter was a student at Cornell University, U.S.A. Elmhirst fitted admirably to his plan who responded readily to share his work of bringing back life in its completeness to rural people. About that time a Japanese carpenter cum gardener Kashahara also joined. The Department of Agriculture and Village Economics (later named Palli Samgathan Vibhaga – Department of Rural Reconstruction) was formally inaugurated on February 6, 1922 with Elmhirst as the first Director. Rabindranath was very happy and confided to Elmhirst on March 1, 1922 that he wanted two things most at his school – a good art department and a good school of agriculture.

In 1957, in accordance with the recommendation of the **National Commission on Agriculture**, of which Sir Elmhirst was a member, an Institute of Rural Higher Education was set up at the present site of the Institute of Agriculture (Palli Siksha Bhavana) which was one of a few started all over India. The Institute offered a 3-year diploma course in rural services and a 2-year certificate course in **Agriculture** that time. The Institute was meant to produce rural leaders. However, later in September 1, 1963, Palli Siksha Sadana (College of Agriculture) was set up offering 4-year degree course in Agriculture and 3-year degree course in Social Science. Under the latest revised Act of the University, the college has been renamed as Palli Siksha Bhavana (PSB) in the year 1984.

1. **Name of the Institute :** Palli Siksha Bhavana (Institute of Agriculture)
2. **Year of establishment :** 1st September, 1963
The Bhavana comprises four composite academic departments viz.
 1. Department of Agronomy, Soil Science, Agril. Engineering, Plant Physiology and Animal Science (ASEPAN)
 2. Department of Crop Improvement, Horticulture and Agricultural Botany (CIHAB)
 3. Department of Agricultural Extension, Agricultural Economics and Agricultural Statistics (EES)
 4. Department of Plant Protection (PP)

All these departments started functioning in 1989. P.G. course in Agronomy was started in 1977 and later on Plant Protection (in 1987), Agricultural Extension (in 1991), Soil Science and Agricultural Chemistry (in 1996) and Horticulture (in 1997) were started.

Other non-academic sections include Agricultural Farm, Horticultural Farm, Dairy & Poultry Farm, PSB Library, Soil Testing Laboratory, Rathindra Krishi Vignan Kendra (RKVK, ICAR unit), AICRP on Weed (ICAR unit).

3. **Is the Department part of a School/Faculty of the university?**
It's a faculty under Visva-Bharati, a Central University of national importance.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.):**
UG : B. Sc. (Ag.)Hons (interdisciplinary with all the Departments of Bhavana).
PG : M. Sc. (Ag.) in the disciplines of Agronomy, Soil Science & Agricultural Chemistry, Horticulture, Agricultural Extension and Plant Protection
Ph. D. in respective disciplines of Agriculture by following traditional system (with course work).
5. **Interdisciplinary programmes and departments involved:**
 - a) The UG programme B. Sc. (Ag.) Hons, a 4-year degree course is offered jointly by all the four departments in an interdisciplinary approach.
 - b) Collaborative guidance of Ph. D. work among the departments of the institute as well as with other institutes of the University such as Institute of Science (Siksha Bhavana).
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
Our Ph. D. research work is conducted in collaboration with different departments of the Institute, other Institute of the University such as Institute of Science (Siksha Bhavana); State Agricultural Universities such as OUAT (Bhubaneswar), UBKV (Cooch Behar), BCKV (Kalyani), BAU (Ranchi), WBUAFS (Kolkata), Institute of Agricultural Science, University of Calcutta; Central Agricultural University (Imphal); ICAR Institutes such as CRIJAF (Barrackpore), IISR (Lucknow), CTCRI (Bhubaneswar), CARI (Port Blair), Horticulture Research Institute(Patna), IARI (New Delhi), NBPGR (New Delhi); State Research Institutes such as PORS (Berhampur), RRS (Chinsura) and other institutes such as Central Sericulture Research & Training Institute (Berhampore, WB).
7. **Details of programmes discontinued, if any, with reasons:**
There has been no such programme which has been discontinued.
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**
Semester wise Choice based Course Credit System of Examination is followed in case of UG and PG programmes as per ICAR regulations, however, Ph. D. programme is offered with one semester course work as per UGC regulations.
9. **Participation of the department in the courses offered by other departments:**
 - a) Faculties of the institute are engaged in taking classes of Farm Science course of Social Work (BSW programme) of the Department of Social Work under the

Institute of Rural Reconstruction (Palli Sangathan Vibhaga), Work Education-Horticulture (Vinay Bhavana).

- b) Some faculties are involved in sharing classes/project work of the course Environmental Sciences offered by the Department of Environmental Sciences, Institute of Science (Siksha Bhavana) and Tagore Studies offered by Rabindra Bhavana at UG level.

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professors	5	4	16
Associate Professors	14	10	10
Asst. Professors	39	34	22
Others			
Scientist, Soil Testing Laboratory	2	0	0
Scientist, AICRP-Weed Control	3	2	2

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 for the last 4 years
Dept. of ASEPAN					
Prof. A. K. Barik	Ph. D	Professor	Agronomy	20	5
Prof. B. K. Saren	Ph. D	Professor	Agronomy	18	1
Dr. B. Duary	Ph. D	Assoc. Professor	Agronomy	15	3
Dr. G. C. Malik	Ph. D	Assoc. Professor	Agronomy	13	4
Dr. S. K. Maity	Ph. D	Asst. Professor	Agronomy	9	2

Dr. K. Pramanik	Ph. D	Asst. Professor	Agronomy	8	1
Dr. (Mrs.) M. Banerjee	Ph. D	Asst. Professor	Agronomy	6	-
Dr. N. C. Sarkar	Ph. D	Asst. Professor	Agronomy	6	-
Prof. A. K. Chatterjee	Ph. D	Professor	Soil Science	27	2
Prof. S. R. Mitra	Ph. D	Professor	Agril. Chemistry	28	3
Prof. G. K. Ghosh	Ph. D	Professor	Soil Science	17	1
Dr. P. K. Biswas	Ph. D	Assoc. Professor	Soil Science	13	4
Dr. (Mrs.) S. Mondal	Ph. D	Asst. Professor	Soil Science	9	-
Dr. Y. V. Rao	Ph. D	Asst. Professor	Biochemistry	7	3
Dr. M. K. Kundu	Ph. D	Asst. Professor	Soil Science	5	Joined VB recently
Prof. S. K. Pyne	Ph. D	Professor	Animal Science	28	-
Dr. J. K. Chatterjee	Ph. D	Assoc. Professor	Animal Science	25	-
Dr. R. Moitra	Ph. D	Assoc. Professor	Agril. Engineering	32	1
Dr. P. Kandasamy	Ph. D	Asst. Professor	Agril. Engineering	10	Recently completed
Dr. K. C. Swain	D. Engg.	Asst. Professor	Agril. Engineering	6	Joined VB recently
Dr. D. Panda	Ph.D.	Asst. Professor	Plant Physiology	9	Recently completed
Dr. (Mrs.) S. Mondal	Ph. D.	Asst. Professor	Plant Physiology	<1	-
Dept. of CIHAB					
Prof. P.S. Munsii	Ph. D	Professor	Horticulture	32	11
Dr. S. Chakravorty	Ph. D	Assoc. Professor	Horticulture	18	4

Dr. G. Mandal	Ph. D.	Assoc. Professor	Horticulture	15	Joined VB recently
Dr. J. Mandal	Ph. D	Asst. Professor	Horticulture	9	5
Dr. Prahlad Deb	Ph. D	Asst. Professor	Horticulture	1	Joined VB recently
Prof. P. C. Kole	Ph. D	Professor	Genetics & Plant	21	5
Dr. A. Paul	Ph. D	Assoc. Professor	Genetics & Plant	14	9
Dr. N.R. Chakraborty	Ph. D	Asst. Professor	Genetics & Plant	3	Joined VB recently
Dept. of EES					
Prof. S. Chowdhury	Ph.D.	Professor	Agril.Extension	24	9
Prof. S. Ghosh	Ph. D	Professor	Agril.Extension	13	Joined VB recently
Dr. S. D. Mukhopadhyaya	Ph. D	Asst. Professor	Agril.Extension	18	2
Dr. (Mrs.) A. Saha	Ph. D	Asst. Professor	Agril.Extension	9	1
Prof. B. C. Roy	Ph. D	Professor	Agril. Economics	17	5
Dr. D. Sarkar	Ph. D	Assoc. Professor	Agril. Economics	11	2
Mr. B. Mondal	M. Sc.	Asst. Professor	Agril. Economics	< 1	Joined VB recently
Dr. S. K. Sori	Ph. D	Asst. Professor	Agril. Economics	< 1	Joined VB recently
Prof. D. Bhattacharya	Ph. D	Professor	Statistics	24	4
Dr. D. S. Dhakre	Ph. D	Asst. Professor	Statistics	1	Joined VB recently
Dept. of PP					
Prof. N. C. Mondal	Ph. D	Professor	Plant Pathology	31	3
Dr. R. Nath	Ph. D	Assoc. Professor	Plant Pathology	15	1

Dr. M. K. Biswas	Ph. D	Asst. Professor	Plant Pathology	9	2
Dr. B. Mandal	Ph. D	Asst. Professor	Plant Pathology	4	-
Prof. K. Baral	Ph. D	Professor	Agril. Entomology	30	3
Prof. H. Chatterjee	Ph. D	Professor	Agril. Entomology	19	4
Dr. P. Mandal	Ph. D	Asst. Professor	Agril. Entomology	11	4
Dr. (Mrs.) S. Bhattacharya	Ph. D	Asst. Professor	Agril. Entomology	1	Joined VB recently
AICRP on Weed Control (ICAR)					
Dr. D. C. Mondal	Ph. D.	Asst. Taxonomist	Taxonomy	24	No scope of research
Mr. Abul Hossain	M. Sc. (Ag.)	Asst. Agronomist	Agronomy	22	No scope of research
Faculties retired/deceased/left the institute during the assessment period					
Prof. D. Sanyal	Ph. D.	Professor	Horticulture	22	2
Prof. S. Chakraborty	Ph. D.	Professor	Statistics	34	1
Dr. G. N. Chattopadhyay (retired on	Ph. D.	Principal Scientist-cum-	Soil Fertility Management	41	3
Prof. S. B. Mukhopadhyay	Ph. D.	Professor	Agril. Extension	30	3
Prof. G. C. De (retired on	Ph. D.	Professor	Agronomy	41	3
Prof. D.C. Ghosh	Ph. D.	Professor	Agronomy	34	8
Prof. K. M. B. Rahim	Ph. D.	Professor	Agril. Economics	33	4
Dr. J. S. Bhat (left on 2010)	Ph. D.	Asst. Professor	Genetics & Plant Breeding	6	-

Prof. D. Basu (left on 2011)	Ph. D.	Professor	Agril. Extension	Served VB for 1 year on lien
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12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Following dignitaries have visited our institute since 2009 on different occasions.

Prof. M.S. Swaminathan , Renowned Agricultural Scientist

Sri M. K. Narayanan, Hon'ble Governor, West Bengal and Rector, Visva-Bharati

Dr. S. Ayappan, DG, ICAR, New Delhi

Prof. L. N. Mandal, Former Vice- Chancellor, BCKV

Prof. Aminul Islam, Former Vice -Chancellor, Dhaka University

Prof. D. Dasgupta, Former Vice-Chancellor, BCKV

Prof. Sujit Kumar Basu, Former Vice -Chancellor, Visva-Bharati

Prof. Saroj K. Sanyal, Former Vice -Chancellor, BCKV

Prof. Asim C. Sinha, Vice-Chancellor(Officiating), UBKV

Dr. J. Timsina, IRRI-Bangladesh

Prof. Sisir K. Mukhopadhyay, Emeritus Professor of Visva-Bharati

Prof. Humbarto Gonzalez Rodriguez, UNAL, Mexico

Dr. S. K. Datta, DDG (Crop Science), ICAR, New Delhi

Dr. C. Devkumar, ADG, ICAR, New Delhi

Dr. A. K. Singh, Zonal Director, ICAR

Mr. Suresh Chander, DG, FAI, New Delhi

Dr. A. R. Sharma, Director, Directorate of Weed Science Research, ICAR

Dr. Dilip Kumar Lakshman, USDA-ARS, USA

Prof. Peter S. Cornish, Retd. Professor, University of Western Sydney

Dr. Pat Wall, CIMMYT, Mexico

Dr. Ravi Gopal Singh, Director of Research, BAU, Bhagalpur

Dr. Ashutosh Sarkar, ICARDA

Dr. John Dixon, ACIAR

Dr. Kuhu Chatterjee, Regional Manager, ACIAR south Asia

Dr. Gopi Nath Ghosh, FAO

Dr. S. J. Jambulkar, BARC

Dr. P. K. Mukherjee, BARC

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

Programmes	Courses	Name of the faculty	Period	Percentage of classes taken (approx.)
PG	Library Science	Prof. Partha Pratim	Since 2012	50

		Roy (Vinay Bhavana, Visva-Bharati)		
PG	English Writing Skill	Mr. Biswanath Banerjee (Research Scholar, DEOMEL, Vidya Bhavana, Visva-Bharati)	Since 2012	50
UG	Horticulture courses	Dr. Prahlad Deb	06.11.2011 to 25.11.2012	35
PG	Horticulture	Dr. Prahlad Deb	06.11.2011 to 25.11.2012	35

14. Programme-wise Student Teacher Ratio:

Programmes	Student:Teacher (cumulative)	Remarks
UG, PG & Ph. D.	8.2 : 1	There are no separate teachers for different programmes. Same teachers are engaged in UG, PG and Ph.D. programmes.

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

Designation	Sanctioned	Filled	Vacant
Non-Teaching Staff	83	42	41
Technical Staff	27	19	8

16. Research thrust areas as recognized by major funding agencies:

- a) Drought management in crop
- b) Weed Control in crops and cropping systems
- c) Weed Surveillance
- d) Agro-techniques of medicinal and aromatic plants
- e) Post-harvest technology of Horticultural crops
- f) Site specific nutrient management
- g) Mutation breeding

- h) Parthenium control and awareness
- i) GIS based soil fertility mapping
- j) Integrated nutrient management of commercial crop

17. Number of faculty with ongoing projects from

- a) National funding agencies: 4
- b) International funding agencies: 2
- c) Total grants received: **300.096 lakhs**

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

Funding agencies	Project title	Grants received
National		
Dept. of ASEPAN		
CRIJAF, ICAR, New Delhi	Drought management of jute under deficit rainfall areas (completed in 2011-12)	13.45 lakhs
ICAR, New Delhi	All India Coordinated Research Programme on Weed Control	37 lakhs /year
Ministry of Agriculture and Cooperation, Govt. of India	National Invasive Weed Surveillance (NIWS) Project (Completed in September, 2010)	12 lakhs
CSIR-CSMCRI	Evaluation of fertilizer potential of sea weed saps on different crops	8.52 lakhs
Dept. of CIHAB		
National Horticulture Board	Cultivation of citronella and palmarosa in the farmers fields under the scheme "Introduction of new technology and concept of Horticulture"	6.822 lakhs
National Mission on Medicinal Plants, Govt., of India.	Establishment of model nursery for medicinal plants	4.00 lakhs
Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India	Effect of irradiation and packaging on sapota fruits (<i>Achras zapota</i> L.) under different storage condition	24.855 lakhs

Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India	Genetic improvement of sesame through induced mutation	19.749 lakhs (sanctioned)
Dept. of EES		
Indian Council of Agricultural Research	“Socio-economic Institutional and Gender Issues Influencing Spatiotemporal Variation and Sustainability of Participatory Irrigation Management Reforms in India” – under ICAR’s Lal Bahadur Shastri Young Scientist Award-2011 to Dr. Souvik Ghosh.	35.0 lakhs
Dept. of PP		
Ministry of Agriculture and Co-operation, Government of India	“Strengthening and Modernization of Plant Quarantine Facilities in India” (In joint collaboration with Agro-Economic Research Centre, Santiniketan)	Rs. 17.8 lakhs
International		
Soil Testing Laboratory		
International Plant Nutrition Institute	GIS based spatial variability mapping of agricultural holdings for precision nutrient management in red and lateritic soil zone.	5.94 lakhs
Dept. of ASEPAN		
International Plant Nutrition Institute	Nutrient optimization and yield intensification of major cereal systems of eastern India	3.96 lakhs

18. Inter-institutional collaborative projects and associated grants received :

a) National collaboration:

- i) Technology Mission on Jute (MM-1.5) collaborative project with CRIJAF (ICAR), Barrackpore and grant received Rs.13.45 lakhs.

b) International collaboration:

- i) A team from Australian Centre for International Agricultural Research (ACIAR) had visited and interacted with our faculties in the year 2011 to plan an international inter-institutional collaborative research and developmental project.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: 68.774 lakhs

Funding agencies	Project title	Grants received
Soil Testing Laboratory		
Department of Science and Technology (Govt. of India)	Large scale demonstration of vermicomposted fly ash in agriculture. Funded by. Grant amount: Rs. /	16.212 lakhs
Bakreswar Thermal Plant (WPDCL)	Identification of major factors controlling pH values of water resources of Bakreswar.	0.979 lakhs
Essar Oil Ltd	Water quality assessment of coal bed water for providing irrigation in agriculture. (collaborated with the Dept. of EES)	2.772 lakhs
Dept. of ASEPAN		
Makhtesim Agan India Pvt. Ltd., Hyderabad	Bioefficacy of propaquizafop in jute (EPJ).	1.98 lakhs
Crystal Crop Protection Pvt. Ltd., New Delhi	Bioefficacy of Bensulfuron-methyl in transplanted Rice (BBTR)	5.28 lakhs
Crystal Crop Protection Pvt. Ltd., New Delhi	Bioefficacy of Bispyribac sodium in Rice (BBSR)	3.19 lakhs
Syngenta	Bio+Phytotoxicity evaluation of some herbicides and fungicides in different crops against different weeds and diseases scenario (collaborated with the Dept. of Plant Protection)	8.2 lakhs
Bayer	Bio efficacy and Phytotoxicity evaluation of some herbicides and insecticides in different crops against different weeds and insect scenario	5.58lakhs
Dept. of CIHAB		
Krishi Rasayan Pvt. Ltd. Kolkata	Assessment of efficiency of EL++ in increasing marketable yield of selected cucurbitaceous vegetable crops	0.374 lakhs

Krishi Rasayan Pvt. Ltd. Kolkata	Assessment of efficiency of EL++ in increasing marketable yield of mango	0.396 lakhs
Food processing and Horticulture, Govt. of West Bengal	Effect of vermicompost on integrated nutrient management of root vegetable crops in red and lateritic soil zones	2.347 lakhs
Krishi Rasayan Pvt. Ltd. Kolkata	Assessment of EL ++ in increasing marketable yield of selected vegetable crops	0.40 lakhs
Coromandel International Ltd.	Collaborative trial programme for slow releasing micronutrients.	Rs. 38,500/-
Seminis Vegetable Seeds (India) Pvt. Ltd. (Completed in 2009)	Collaborative research programme for evaluation of cucumber, egg plant and okra hybrids	Rs. 56,100/-
Dept. of EES		
Dept. of Agriculture, Govt. of West Bengal	Intensive Sugarcane Research Project	5.97 lakhs
Dept. of PP		
Grace Bio-Care Pvt. Ltd., Kolkata	Bio-efficacy of Grace Hume 12% (based on Humic acid) and Bloomer NB (based on Nitro Benzene 35%) for sustainable production of Lady's finger (<i>Abelmoschus esculentus</i>).	0.89 lakhs
Grace Bio-Care Pvt. Ltd., Kolkata	Investigation of some bio-enriched molecules for the management of potato pests and diseases	0.723 lakhs
Crystal Crop Protection Pvt Ltd.	Bioefficacy of Fipronil 80% WG against two important insect-pests of rice and Bioefficacy of Acephate 75% SP against some major pests of rice.	3.5 lakhs
P. I. Industries	Evaluation of insecticides and other pesticides on major pests and diseases of different crops in red and lateritic zone of West Bengal.	1.65 lakhs
Crystal Crop Protection Pvt.	Evaluation of insecticides and fungicides against some insect pests and diseases along with their phytotoxicity on different crops.	5.0 lakhs

20. Research facility / centre with

- State recognition: Soil Testing Laboratory
- National recognition:
 1. Rathindra Krishi Vignan Kendra (ICAR)
 2. All India Coordinated Research Project on Weed control (ICAR)
 3. Plant Tissue Analysis Facility (National Horticulture Mission)

There is no research facility / centre with international recognition at our institute.

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil**22. Publications:**

- a) Number of papers published in peer reviewed journals (national/international): **420**
- b) Monographs/ bulletins: **28**
- c) Chapters in Books: **78**
- d) Edited Books: **27**
- e) Books with ISBN with details of publishers

Chakrabarty, S, Roy Chowdhury, N and Munsil, P. S.	2010	Studies on Post Harvest handling of Gerbera, Gladiolus and Tuberosa	LAB LAMBERT Academic Publishing, Saarbrucken, Germany, ISBN: 978-3-8383-8495-5
Brahmanand P.S., Ghosh Souvik, Kumar, Ashwani, Parswal, B.S.	2010	“ ” - Globalisation and Indian Food Security,	Directorate of Water Management (ICAR), Bhubaneswar. P 158. (ISBN-978-81-910947-0-1).
Kandasamy, P.	2013	Studies on Farm-Mat drying of Papaya (<i>Carica papaya</i>) fruit.	LAB LAMBERT Academic Publishing, Saarbrucken, Germany, ISBN: 978-3-659-37432-6
Swain, K.C.	2013	Precision Agriculture Technology Application	LAB LAMBERT Academic Publishing, Saarbrucken, Germany, ISBN: 978-3-659-47275-6
Sarkar, D.	2012	<u>Agricultural Policy in West Bengal: A Policy Matrix</u>	LAP LAMBERT Academic Publishing,

			Germany.
Khatun, Dilruba and Roy, B.C.	2012	Rural Livelihood Diversification in West Bengal.	LAP-LAMBERT Academic Publishing, Germany (ISBN 978-3-659-22075-3)
Mandal, B. and Chandel, B. S.	2012	Economic Efficiency of Milk Production in Eastern India: A Quantitative Approach.	LAP-LAMBERT Academic Publishing, Germany (ISBN 978-3-659-21159-1).
Bhattacharya, D. and Roychowdhury	2013	Decision making with data	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-81-3)
Bhattacharya, D. and Roychowdhury	2013	Exploring data	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-80-6)
Bhattacharya, D. and Roychowdhury	2013	Practical Statistics (3 rd Edn.)	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-86-8)
Bhattacharya, D. and Roychowdhury	2012	Inferential Statistics	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-60-8)
Bhattacharya, D. and Roychowdhury	2011	Manegerial Statistics	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-45-5)
Bhattacharya, D. and Roychowdhury	2010	Statistics: Theory and Practices (3 rd Edn)	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-02-8)
Bhattacharya, D. and Roychowdhury	2012	Probability and Statistical Inference (2 nd Edn)	U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-01-1)
Bhattacharya, D. and Roychowdhury	2011	Statistics in Social Science and Agricultural Research	Concept Publishing Company Pvt. Ltd., in press (ISBN 978-81-8069-822-4)
Mondal, B.	2012	Pathogenic Menace for Brinjal Cultivation in West Bengal: Bacterial Wilt of Brinjal	LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany; 978-3-659-

			19234-0
Kumar R, Mondal, P. and Chakravarty, M K	2012	Management of gram poder in chickpea	LAP LAMBERT Academic Publishing, Germany; ISBN 978-3-659-13695-5
Maiti, R.K. and Sarkar, N.C	2012	Advances in Agro-technology	Puspa Publishing House, Kolkata (ISBN 978-81-920073-6-6)
Maiti, R.K. and Sarkar, N.C	2010	Advances in Rice Science	New Delhi publishers, New Delhi (ISBN 978-81-907421-5-3)

- f) Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): **149**
- g) Citation Index – range / average: **80**
- h) SNIP
- i) SJR
- j) Impact Factor – range / average: **0 - 6.91**
- k) h-index: **4 - 7**

23. Details of patents and income generated:

Patent for product/process is yet to be explored. However, Rathindra Krishi Vignan Kendra has identified some indigenous genotype of banana and coconut with distinguished quality attributes and is under the process of documentation.

24. Areas of consultancy:

- Ø Faculties of the institute provide career counselling and guidance to the students for the preparations of ICAR-Junior Research Fellowship Examination, ICAR-Senior Research Fellowship Examination, ICAR-NET Examination and competitive examinations such as Agricultural Research Service Examination, West Bengal Agricultural Administrative Services without any additional remuneration.
- Ø Free consultancy to the farmers over telephones, by appointments and personal contacts by the faculties.
- Ø Faculties of Palli Siksha Bhavana take part regularly in vocational training, farmers' training, entrepreneurship development training and training for extension personnel are being conducted by the Rathindra Krishi Vignan Kendra (RKVK).
- Ø Regular soil testing service to the farmers and researchers by the Soil Testing

Laboratory.

- Ø Weed survey and surveillance are done in different crops, cropping systems, non-cropped areas and aquatic bodies in different agro-climatic zones of West Bengal by the scientists of AICRP-Weed Control, an ICAR sponsored centre.
- Ø Regular awareness programme on Parthenium weed in the surrounding localities by AICRP-Weed Control centre in conjunction with faculties and students of the institute.
- Ø Advisory service to farmers regarding weed menace and control measures in crops and cropping systems by AICRP-Weed Control centre.
- Ø The Agricultural Farm caters to some extent good quality seeds of high yielding varieties of common field crops grown locally at reasonable lower price.
- Ø The Horticultural Farm of the institute raises and freely supplies grafted saplings of fruit trees to the local members of Self Help Group on the occasion of *Hala Karshana*, the Festival of Ploughing each year.

Areas of income generation:

- Ø An income of approx. Rs.25000/- each year by leasing of the mango orchard by the Agricultural Farm.
- Ø Around 1 lakh income by the Agricultural Farm from its different agricultural production.
- Ø An income of approx. 5000/- each year by the Dairy Farm of the institute.
- Ø Income by Horticultural Farm approx. Rs. 25000-30000/-

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

Faculties visiting other laboratories / institutions / industries in India:

The faculties of the Institute visited following universities and research institutes in connection with participating seminar/symposium, conducting examinations and participating training courses etc. during 2009 to till date:

Universities	
Ø BCKV (Kalyani)	Ø MPUAT, Udaipur
Ø UBKV (Cooch Behar)	Ø SKUAT, Srinagar
Ø CAU (Imphal)	Ø GAU, Anand
Ø OUAT (Bhubaneswar)	Ø AAU, Jorhat
Ø UAS (Bangalore)	Ø IGAU, Raipur
Ø TNAU (Coimbatore)	Ø BAU, Ranchi
Ø KAU (Kerala)	Ø Jadavpur University, Kolkata
Ø HPKVV (Palampur)	Ø ANGRAU, Hyderabad
Ø Andhra University, Visakhapatnam	Ø NBU, Siliguri

<ul style="list-style-type: none"> Ø Devi Ahalyabai Visva Vidyalaya, Indore, Ø Punjab University, Chandigarh Ø PAU,Ludhiana Ø HAU Hissar Ø ANGARU, Hyderabad Ø UAS, Dharward, Karnataka Ø University of Hyderabad 	<ul style="list-style-type: none"> Ø UAS, Bangaluru, Karnataka Ø MAU, Parbhani , Maharashtra Ø KKV, Dapoli, Maharashtra Ø MPAU, Rahuri, Maharashtra Ø YSPUHF, Solan, Himachal Pradesh Ø Navsari Agricultural University, Navsari, Gujarat
Research Institutes	
<ul style="list-style-type: none"> Ø IARI, New Delhi Ø CRIJAF (Barrackpore) Ø CIMAP, Lucknow Ø DWR, Karnal Ø CRIDA, ICAR and ICRISAT Hyderabad 	<ul style="list-style-type: none"> Ø CAZRI, ICAR ,Rajasthan Ø CPRI NEH Station, Shillong Ø NIRJAFT, Kolkata Ø National Institute of Nutrition, Hyderabad Ø IIHR, Bangaluru

Faculties visiting other laboratories / institutions / industries in abroad:

- Ø Prof. P. S. Munki visited Wageningen University & Research Centre/Applied Research at Lisse, Dee Ree(Lisserbroek), Maas & Van Steijn (Hillegom), Paauw Lelies BV(Rijnsburg) and Keukekenhof. in the Netherland. He also visited International Flower Auction Centre, Alsmier in 2008.
- Ø Prof. P. S. Munki visited Bangladesh Agricultural University, Mymensingh during 2009.
- Ø Prof.P. S. Munki also visited Universitat Politècnica de Catalunya and different Private nurseries, compost factories nearby Barcelona,Spain in 2011.
- Ø Prof. S. K. Pyne visited Las Vegas and Institute of Los Angeles and Chicago in USA during 21-29th July, 2013.
- Ø Dr. B. Duary visited Cairns, Austrailia-2011 and Padjadjaran University, Bandung, Indonesia-2013
- Ø Prof. D. Bhattacharya visited University of California-Davis, USA
- Ø Prof HIRAK Chatterjee visited research laboratories for Medfly mass rearing facility at Caudete de las Fuentes, IVIA experimental station and release facility at Moncada, Spain in 2010.
- Ø Dr. Mohan Kumar Biswas visited Dhaka Agricultural Research laboratories in 2011.
- Ø Dr. Prahlad Deb visited University Ruhuna, Mapalana, Srilanka in 2013.

26. Faculty serving in a) National committees b) International committees

c) Editorial Boards d) any other (please specify)

a) Faculty serving in National Committees:	
Prof. P. S. Munki	Member (Executive/Committee of scientific societies & organization like National Horticulture Board) Expert Member for designing Applied Oriented Course in Horticulture, IGNOU, New Delhi
Prof. D. Bhattacharya	Member of State Implementation committee for state libraries
Prof. B. K. Saren	External Expert Member of Assessment Committee for promotion of Technical Posts by ASRB, ICAR, New Delhi
Dr. B. Duary	Member of the executive committee of the Crop and Weed Science Society Councillor (West Bengal) of India Society of Weed Science Councillor (West Bengal) of India Society of Agronomy
b) Faculty serving in International Committees:	
Prof. P. S. Munki	Member of Selection committee in Bangladesh Agricultural University.
Prof. P.S.Munki	Life member of International Society of Horticultural Sciences
Dr. B. Duary	Member of International Weed Science Society
c) Faculty serving in Editorial Boards:	
Prof. P.S. Munki	1. Acted as an executive member in the council of National Societies and in their Editorial Board 2. Member (of editorial board) as well as referees of various journals of reputation 3. Member, Editorial Board, Annual Report, Visva-Bharati
Prof. D. Bhattacharya	Editor of the Journal <i>Stochastic Modeling and Applications</i> Managing Editor of <i>International Journal of Statistics and Management System</i>
Prof. S. Chowdhury	Editorial Board, ARCC Journal (ISSN 0367-8245)
Prof. S. Ghosh	Member, Editorial Board, Journal of Community Mobilisation for Sustainable Development, ATIC, IARI, New Delhi. Associate Editor, Indian Research Journal of Extension

	Education, Society of Extension Education, Agra, UP Member of the Editorial Board, Journal of the Indian Society of Coastal Agricultural Research, Indian Society of Coastal Agricultural Research, CSSRI Regional Research Station, Canning Town, West Bengal
Prof. B. C. Roy	<i>Editor</i> , International Journal of Social Science, New Delhi
Dr. D. Sarkar	Editor, Journal of Social Science Studies, Macrothink Institute, USA. Editor-in-Chief, International Journal of Social Science, New Delhi
Dr. D. S. Dhakre	Editor, Indian Research Journal of Extension Education
Dr. S. D. Mukhopadhyay	Editor, Indian Research Journal of Extension Education
Dr. P. Mondal, Dr. B. Mondal and Dr. D. S. Dhakre	<i>Editorial Board Member of the Journal of Bio-resource and Stress Management (Print ISSN 0976-3988, Online ISSN 0976-4038)</i>
Dr. B. Mondal	<i>Editor-in Chief of the Journal 'Green Technology' (ISSN 0973-2624).</i> <i>Reviewer of the Journal of Interacademia (ISSN 0971-9016).</i>
Dr. B. Duary	Member of the Editorial Board, Indian Journal of Weed Science
Dr. N. C. Sarkar	Managing Editor, <i>International Journal of Bio-resource and Management</i>
d) Faculty serving in any other:	
Prof. P. S. Munsii	Acted as reviewer for evaluation of publication on the manuscript entitled "Manual for Hi-tech floriculture" published by University of Calcutta and also acted as reviewer of CSIR journals on medicinal plants.
Prof. P. C. Kole	acted as reviewer for five Foreign journals
Dr. B. Duary	Resource Person of ICAR in 2010 and 2011 for presenting the network activities (Transfer of Technology) of 22 AICRP-Weed Control centres.
Prof. D. Bhattacharya	Reviewer of many journals published by Elsevier, Wiley, Taylor and Francis, Springer and IOS press, Netherland.
Prof. K. Baral	Serving as an External Expert in selection committees for selection of teachers in various Universities. He also act as

	Reviewer of various Journals viz; Journal of Plant Protection and Environment . OUAT, Orissa; Indian Journal of Entomology, IARI, New Delhi.
Prof. S. Ghosh	Reviewer, of Journal of Agricultural Education and Extension (Routledge Pub., Netherlands), during 2012-13. Reviewer, Water Policy (International Water Association Pub.,USA), during 2012. Reviewer, <i>Irrigation and Drainage (Wiley-Blackwell Pub. United Kingdom)</i> , during 2011-12. Reviewer, Journal of Agricultural Education and Extension (formerly known as European Journal of Agricultural Education and Extension), Wageningen University, The Netherlands (during 2007). External Expert for Reviewing / Evaluation of Research Project (SWE-2002-108), Swedish Development Research – Assessment of Applications, Swedish International Development Cooperation Agency (Sida), Stockholm (during 2005).
Prof. H. Chatterjee	Serving as Nodal Officer for NISAGENET, ICAR, New Delhi from PSB, Visva-Bharati. Councillor of the Journal of Plant Protection and Environment . OUAT, Orissa, Bhubaneswar since 2007. Reviewer of various Journals viz; Journal of Plant Protection and Environment . OUAT, Orissa; Indian Journal of Entomology, IARI, New Delhi., ‘Insect Science’ PAU, Ludhiana and Journal of Plant Protection Sciences, BCKV, WB
Dr.J.Mondal	acted as reviewer for two Foreign journals
Dr N.R.Chakraborty	acted as reviewer for one Foreign journal
Dr. Amitava Paul	acted as reviewer for two national level journals
Dr. Goutam Mondal	acted as reviewer three national level journals

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

Name of faculty	Programme(s) attended	Duration (days)	Sponsored by
Dr. B. Duary and Dr. G. C. Malik, Dr. P.	UGC sponsored 15 th Refresher Course on Environmental	21 days	UGC Academic Staff College,

Mandal,	Science, 2009		Burdwan
Dr. M. Banerjee, Dr. (Mrs.) A. Saha, Dr. Mandal and Dr. B Mondal, Dr. (Mrs.) S. Mondal, Dr. K. Pramanik	UGC sponsored 18 th Refresher Course on Environmental Science, 2011	21 days	UGC Academic Staff College, Burdwan
Dr. M. Banerjee	UGC sponsored 71 st Orientation Course 2010	28 days	UGC Academic Staff College, Burdwan
Dr. Y. V. Rao	UGC sponsored 4 th Refresher Course in Life Sciences, Nov. 3 – 23, 2012	21 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. Y. V. Rao	UGC sponsored 78 th Orientation Program, Jan.11 – Feb.7, 2011	28 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. S. K. Maity And Dr. M. K. Biswas	UGC sponsored Refresher Course Agricultural Science, 2011	21 days	BHU, Varanasi, UP
Dr. S. K. Maity	ICAR short course on Participatory Research Appraisal at Karnal, 2011	10 days	DWR, Karnal, Haryana
Dr. S. K. Maity	ICAR short course on Research Methodology, 2012	10 days	CRIDA, Hyderabad, AP
Dr. S. K. Maity	ICAR short course on Research Methodology, 2013	10 days	CAZRI, Jodhpur, Rajasthan
Dr. K. Pramanik	UGC sponsored 70 th Orientation Course during 16 th May-12 th June, 2009	28 days	UGC-Academic Staff college, University of Burdwan, Burdwan

Dr. D. Panda	UGC sponsored 6 th Refresher Course on computer study on 29 th Jan-18 th Feb,2009	21 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. D. Panda	UGC sponsored 70th Orientation Course during 16th May-12 th June, 2009	28 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. J. Mondal	UGC sponsored 18 th Refreshers course in “Environmental Science”, 20 th November to 10 th December, 2010	21 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. J. Mondal	ICAR sponsored Summer school on “Horticulture Based Crop Diversification Options for Livelihood Security in Tribal Areas”, 1 st May to 10 th June, 2013.	10 days	ICAR Research Complex for Eastern Region, Research Centre, Plandu Ranchi, Jharkhand
Dr. S. Chakravorty	UGC sponsored 17 th Refreshers course in “Environmental Science”, 22 nd August to 11 th Sept’2009.	21 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. S. Chakravorty	UGC sponsored Refreshers course in “Environmental Studies”, 8-27 Feb’2010.	21 days	ASC - The Univrsity of Calcutta, West Bengal
Dr. D. S. Dhakre	ICAR Training Course on SAS programme, 2012	10 days	NEH-ICAR Research Complex, Barapani, Meghalaya
Dr. G. C. Malik and Dr. P. Mandal	National Training on Advances in Weed Management, 2013	10 days	DWSR (ICAR), Jabbalpur

Dr. (Mrs.) S. Bhattacharya	ICAR sponsored Short course on “Detection and measurement of Insecticide Resistance including molecular aspects in Insect Pests”, 2013	10 days	NBAII, Bangalore
Dr. M. K. Biswas	Orientation Programme, 2009	29 days	UGC -ASC- Jadavpur University, Kolkata
Dr. M. K. Biswas	4 th Refresher Course in Life Science, 2011	21 days	ASC-The University of Burdwan, Burdwan, W.B.
Dr. M. K. Biswas	Training on “Developing Human Resource for Teaching Core Course in Plant Nematology”, 2014	13 days	Department of Nematology, CCS Haryana Agricultural University, Hisar, Haryana

28. Student projects

- **percentage of students who have done in-house projects including inter-departmental projects:** 100% of PG students do projects in the form of dissertation/ Thesis.
- **percentage of students doing projects in collaboration with other universities/industry/ institute:** Around 80% of Ph. D. Research projects are done in collaboration with other universities/institutes.

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

✓ Awards / recognitions received by the faculty

• International level

- ü Prof. K. Baral of the Dept. of Plant Protection was awarded with International IPM Recognition Award 2009 at 6th International Symposium on 24 Mar, 2009, USA.
- ü Dr. Bholanath Mondal Received ‘Young Scientist Award in Plant Pathology’ in the event of the First International Conference on Bio-Resource and Stress Management held on 6-9 Feb., 2013 at Kolkata
- ü Received ‘Best Poster Paper Award’ entitled ‘Rethinking of Sundarbans Mangrove through Community Participation’ in the event of the First international Conference on Bio-Resource and Stress

Management held on 6-9 Feb., 2013 at Kolkata

- **National level**

- ü Prof. D. C. Ghosh was recognized as Fellow of West Bengal Academy of Science & Technology
- ü Prof. P.S. Muni :‘Shiksha Ratan Puraskar’ (2010) by India International Friendship Society, New Delhi and recognized as Fellow of the Indian Association of Biological Sciences (in Horticulture) and selected for award of Rashtrya Vidyaratana Award 2014 by Foundation for accelerated community empowerment (FACE), Delhi.
- ü Prof. N. C. Mandal: PanditJawharlal Nehru Gold Medal award 2014 for “ Individual achievement & National Development” (Education and Research) from Global Economic Progress and Research Association , Chennai, Tamil Nadu and felicitated in the International UnityConference during January 30,2014.
- ü Prof. Souvik Ghosh: *Indira Gandhi Rajbhasha Puraskar* (First Prize) of Ministry of Home Affairs, Govt. of India conferred by His Excellency President of India, Shri Pranab Mukherjee at Vigyan Bhavan, New Delhi on 14th September 2012.
- ü Lal Bahadur Shastri Outstanding Young Scientist Award 2011 of Indian Council of Agricultural Research (ICAR), Ministry of Agriculture, Government of India conferred by Hon’ble Union Minister of Agriculture and Food Processing Industries Sh. Sharad Pawar and Hon’ble Minister of State for Agriculture and Food Processing Industries Sh. Harish Rawat at National Agricultural Science Complex, Indian Council of Agricultural Research, New Delhi on 16th July 2012.
- ü Dr. B. Duary- Recognition award 2011 by DWSR, ICAR for successful completion of NIWS project –Ministry of Agriculture and Cooperation, Govt. of India.
- ü Dr. B. Duary- Bharat Siksha Ratan Award (2010) from Global Society for Health and Educational Growth, New Delhi for excellence in chosen field of activity.
- ü Dr. Y. V. Rao received Fellow Award from Society of Applied Biotechnology (SAB) 2012
- ü Dr. B. Duary-Young Scientist Award-2009 by Crop and Weed Science Society
- ü Dr. K. Pramanik –Young Scientist Award-2013 by Ratikanta Maiti Foundation.
- ü Dr. K. Pramanik- Young Scientist Award-2013 by Crop and Weed

Science Society

- ü Dr. Y. V. Rao received Best Oral Presentation Award in the National Seminar on Agriculture and Biosecurity in Changing Scenario, 2014.
- ü Dr. K. Pramanik received best poster presentation under the category of Biodiversity, Forestry and Biogeography in “The First International Conference on Bio-resource and Stress Management”, 2013
- ü Dr. K. Pramanik received best poster under the category of Crop Husbandry, in “The First International Conference on Bio-resource and Stress Management”, 2013
- ü Prof. B.K. Saren received best poster under the category of Crop diversification, soil health and sustainable agriculture, Session-III in “The First International Conference on Bio-resource and Stress Management”, 2013
- ü Dr. K.C. Swain received best paper award on “ Potential and Prospectus of Greenhouse Agriculture in India” in 9th National Youth Science Congress, held at Visva-Bharati Santiniketan, 2013.
- ü Dr. Ranjan Nath: Best Oral Presentation award in “National Seminar on Agriculture, Biosecurity in Changing Scenerio.

✓ **Awards / recognitions received by the Doctoral fellows**

• **National level**

- ü Ms. Debjani Chowdhuri and Mr. Kharendra Reang are recipient of Rajeev Gandhi National Fellowship for Ph. D. programme
- ü Sri. Chandan Maity received *Best poster presentation 25th National Youth Science congress.*

✓ **Awards / recognitions received by the students**

• **International level**

- ü Mr. Sukamal Sarkar won Altech Young Scientist Award, USA for the year 2013 placed 3rd in Asia Pacific region.
- ü Ms. Pooja Chatterje won 1st prize in group dance in International Classical Competition organized by Bharat Sanskriti Utsav held at Barddhaman in 2013.

• **National Level**

- ü Every year an outstanding percentage of UG students of the institute are awarded with **ICAR Junior Research Fellowship** for PG studies in other institute/universities and some of them often top the rank at national level in different disciplines such as **Arka Prabha Ghosh** topped in Agronomy in 2013, **Niranjan Kumar** in Physical Science group in 2012.
- ü Mr. Sukamal Sarkar was selected for oral presentation in the plenary

session of 5th Indian Youth Science Congress 2013 held at Visva-Bharati, Santiniketan.

- Ü Ms. Ankita Mishra stood 1st in oral presentation in Agriculture session of 5th Indian Youth Science Congress 2013 held at Visva-Bharati, Santiniketan.
- Ü Ms. Arpita Nalia stood 3rd in Rangoli making in 28th Inter University Youth Fest held at Lalit narayan Mithila University, Darbhanga, Bihar.
- Ü Ms. Sangeeta Bhattacharyya and Ms. Chandrima Shyam got 1st and 2nd prize respectively in inter-college debate on “population and environment” organized by IAPPD and Visva-Bharati in 2011.
- Ü Ms. Arpita Nalia and Ms. Shazia Sultana got 1st prize in double badminton in Inter University sports in 2013.
- Ü Ms. Arpita Nalia was runner-up in single badminton in Inter University sports in 2013.
- Ü Mr. Avik banerjee, Mr. Soham Ghosal and Mr. Tanmay Pal stood 1st in the quiz competition; Mr. Gaurav Jha (English) and Mr. Amarjeet Kumar (Hindi) stood 1st in the debate competition in the Inter University Youth Fest – 2012.
- Ü Mr. Gaurav Jha stood 1st in the Inter University Exhibition Debate organized at Visva-Bharati in 2013.
- Ü Mr. Jagannath Konra and Mr. Siddhartha Mallick represented Visva-Bharati cricket team at East Zone Inter University Men’s Cricket tournament 2013 held at University of Calcutta.
- Ü Mr. Abdul Motakabber represented Visva-Bharati university volley ball team at East Zone Inter University Men’s Cricket tournament 2012-13 held at University of Calcutta.
- Ü Mr. Jagannath Konra and Mr. Wasim Iftikar represented Visva-Bharati cricket team which won championship in Ajay Ghosh Men’s Cricket tournament orgsnized by Cricket Association of Bengal in 2011 at Santiniketan.
- Ü Mr. Jagannath Konra and Mr. Babu Kora represented Visva-Bharati cricket team at East Zone Inter University Men’s Cricket tournament 2013-14 held at Jadavpur University.

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

1. 2nd National Seminar on **Earthworm Ecology and Environment** & IX National Symposium on **Soil Biology and Ecology** 21-23 Nov, 2009 funded by NABARD
Outstanding participants: Prof. L. M. Mondal, former VC, BCKV, Kalyani;

Prof. Biswapati Mandal, BCKV, Kalyani; Prof. KVBR Tilak, Osmania Univerisy, Hyderabad; Prof. D. J. Bagyaraj, CNBRCD, Bangalore; Dr. Pradip Sen, Dept. of Agriculture, Govt. Of WB; Dr. Kaushik Majumder, IPNI; Dr. P. Bhattacharya, AIBORS, Noida; Prof. (Mrs.) Radha D. Kale, Banglore; Dr. A. K. Sannigrahi, DRDO, Balasore; M. K. De, NABARD, Kolkata

2. National Workshop on **Use of Vermicomposted Fly Ash in Agriculture**, 26th May, 2011 funded by Fly Ash Unit, DST, GOI

Outstanding participants: Prof. KVBR Tilak, Osmania Univerisy, Hyderabad; Prof. Shibani Chowdhury, Visva-Bharati; Prof. Biswapati Mandal, BCKV, Kalyani; Prof. P. S. Pathak, former director, IGFRI, Jhansi; Dr. S. K. Dey, Principal Scientist, IGFRI, Jhansi; Mr. A. Sanyal, C-Farm, New Delhi

3. Golden Jubilee Seminar on **Advances in Agricultural Research towards Food Security and Environmental Sustenance**, 1-3 Sept, 2012 funded by IPNI, NABARD, and some corporate sectors

Outstanding participants: Prof. M. S. Swaminathan, Prof. M. K. Dasgupta; Prof. S. K. Mukhopadhyay; Prof. Aminul Islam, former VC, Dhaka National University and Daffodil International University, Bangladesh; Prof. Sirajul Haque, Dhaka University, Bangladesh

Dr. Swapan Datta, DDG (Crop Science), ICAR, New Delhi; Prof. A. C. Sinha, officiating VC, UBKV, Cooch Behar; Dr. K. Majumder, IPNI; Dr. M. L. Jat, CIMMYT; Dr. A. P. Sharma, CIFRI, Barrackpore; Dr. Soumitra Das, International Zinc Association

4. National seminar on **“Safe Food for All”** 21-23 Feb, 2012 funded by Raja Rammohan Library Foundation, Ministry of Culture, Govt. of India and some corporate sectors

Outstanding participants: Rabindranath Bhattacharyya, Minister in Agriculture, Govt. of West Bengal; Prof. Aminul Islam, former VC, Dhaka National University and Daffodil International University, Bangladesh; Prof. Ashim Chowdhury, Calcutta University; Prof. A. Chakrabarty, WBUAFS, Kolkata; Prof. P. Halder, Visva-Bharati; Prof. A. Zaman, BCKV, Kalyani; Prof. P. K. Sahoo, BCKV, Kalyani

5. National seminar on **“Agriculture and Bio-security in Changing Scienario”**, 1-3 Feb, 2013.

Funded by NABARD, University Grant and some corporate sectors

Outstanding participants: Prof. D. Dasgupta, ex-VC, BCKV, Kalyani; Prof. (Mrs.) Sabujkali Sen; Prof. K. Sengupta, BCKV, Kalyani; Prof. (Mrs.) Bandana Bose, BHU, Varanasi; Dr. Y. V. Singh, IARI, New Delhi; Dr. P. J. Mishra, OUAT, Bhubaneswar; Prof. I. Bhattacharya, BCKV, Kalyani; Prof. T. K.

Mondal, WBUAFS, Kolkata

6. National seminar on '*Recent Advances in Rice Genomics and Biotechnology*' organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.
7. Two-day National Conference on **Application of Statistics in Life Sciences & Engineering** on December 10-11, 2011 funded by institutional grant.
8. National **Extension Management** Workshop on Development Projects Management on November 12-13, 2011 funded by institutional grant.
9. National Symposium on "**Plant Microbe Interactions and Crop Health Management**" & Twenty fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012 funded by UGC Grant from University and some Agrochemical companies

Outstanding participants: Prof. Pratibha Sharma, Secretary, Indian Phytopathological Society, IARI, New Delhi; Prof. N. K. Dhal, Former Dean, College of Agriculture, OUAT, Bhubaneswar; Prof. B. N. Chakraborty, President, ISMPP, North Bengal University; Prof. M. K. Dasgupta, Retd. Professor, Visva-Bharati; Prof. S. K. Mukhopadhyay; Prof. Srikanta Das, Dean, Faculty of Agriculture, BCKV, Kalyani; Prof. H. P. Mishra, OUAT, Bhubaneswar

31. Code of ethics for research followed by the departments:

All relevant codes of ethics for research as laid down in the University are followed.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
UG (2012-13)	1081	36	15	3.3	1.4
UG (2013-14)	1470	41	11	2.8	0.7
PG (2012-13)	378	37	9	9.8	2.4
PG (2013-14)	392	55	9	14.0	2.3
Ph. D. (2012-13)	65	17	6	26.2	9.2
Ph. D. (2013-14)	75	22	5	29.3	6.7

33. Diversity of students :

Name of the Programme (refer to question no. 4)	% of students from the same University	% of students from other Universities within the State	% of students from other Universities outside the State	% of students from the other Countries
PG (2011-12 & 2012-13)	16.8	1.7	39.6	0.0
Ph. D. (2011-12 & 2012-13)	7.4	3.6	34.3	0.0

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

Competitive Examinations	No. of students cleared during 2009-2013
All India ICAR-JRF Examination	5 (2009-10); 3 (2010-11) 10 (2011-12); 15 (2012-13)
All India JNU/BHU PG Entrance Test	1 (2011-12) 2 (2012-13)
CAT/MAT qualified	3 (2009-10)
Qualified ICAR-NET Examination	18 number of PG students
West Bengal Agricultural Administrative Service	3 number of PG students
Banking Service	4 number of PG students and 1 UG student
School Services Examination	8 number of PG students

35. Student progression:

Student progression	Percentage against enrolled							
	2009-10		2010-11		2011-12		2012-13	
UG to PG	77.4		78.6		78.1		100	
PG to M. Phil.	There is no M. Phil programme in Agriculture							
PG to Ph.D.	40		30.4		23.1		38.2	
Ph.D. to Post Doctoral*	-		-		-		-	
Employed	UG	PG	UG	PG	UG	PG	UG	PG
• Campus selection	16.1	20	0	8.7	6.3	0	0	0

• Other than campus recruitment	6.5	40	21.4	60.9	15.6	73.1	0	35.3
Entrepreneurs	-	-	-	-	-	-	-	-

* Dr. Soma Mukherjee is currently engaged as Post-Doctoral Research associate in USA , after completion of her Ph.D.during 2010 under the supervision of Prof. N. C. Mandal of Dept. of Plant Protection.

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	43.75%
from other universities within the State	41.67%
from universities from other States	14.58%
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:

Following faculties were awarded Ph. D. during 2009-2013:

1. Dr. D. Panda (Plant Physiology), Ph. D. from Visva-Bharati
2. Dr. P. Kandasami (Agril. Engineering), Ph. D. from Visva-Bharati
3. Dr. (Mrs.) Sananda Mondal (Plant Physiology), Ph. D. from Banaras Hindu University

38. Present details of departmental infrastructural facilities with regard to

a) Library:

- Ø An institutional library shared with Social Work Dept. of Palli Sangthan Vibhaga.
- Ø Total number books the library : 47529
- Ø Total number periodicals in the library : 5408
- Ø Subjects include languages, humanities and social science, science, home science, computer science, commerce and management, education, engineering and technology, medical sciences, agricultural science, veterinary science, law, and others.
- Ø Total No. Books & Periodicals issued 21300.
- Ø On line as well as manual library retrieval system
- Ø Internet facility for both staff and students
- Ø One departmental library recently established at the Dept. of ASEPAN

b) Internet facilities for staff and students:

- Ø Each faculty of the institute are provided with one desktop as well as one laptop computers and portable data storing devices such as pen drive, external hard disc.
- Ø Desk top computer of each faculty is connected with wired university Net Work with Internet facility and faculties of some department are also provided with portable modem to access internet connection along with note pad computer.
- Ø One computer laboratory for UG students with 30 desktops having internet connections.
- Ø UG students can avail internet facility at Institute Library and also can avail wireless wi-fi connection at some of the departments.
- Ø All PG and Ph.D. students are associated with some faculty for their research guidance and can avail internet facility available with the concerned faculty.

c) Total number of class rooms:

- Ø Four UG class rooms each of 100 capacities.
- Ø Five PG class rooms: 2 at Dept. of ASEPAN, 1 at Dept. of CIHAB, 1 at Dept. of EES and 1 at Dept. of PP.

d) Class rooms with ICT facility:

- a) All the four UG class rooms are provided with fixed LCD projector and automatic rolling projection screen.
- b) One PG class room of the Dept. EES is with ICT facility.
- c) There is an air conditioned Placement Cell with ICT facility to facilitate interactions of corporate officials with faculties and students.
- d) There are three Seminar Hall in the Institute one at each Department with air conditioning system and ICT facility. Often these Seminar Hall are also used for taking PG and Ph. D. classes.
- e) All the departments are having portable LCD projectors which are taken to the class rooms for delivering the lectures with power point presentation.
- f) There is one Community Hall of about 200 capacity under the disposal of the Principal, Palli Siksha Bhavana with air conditioning system where Seminars and Conferences are organised.

e) Students' laboratories:

- g) One computer laboratory for UG students.
- h) One workshop of Agril. Engineering for the UG students
- i) 6 UG laboratories for conducting practical classes (3 at Dept. of ASEPAN and 1 at each three other departments).

f) Research laboratories: Total - 15**Interdisciplinary facility**

- j) Soil Testing Laboratory

Dept. of ASEPAN

- k) Soil Fertility Lab
- l) Plant Physiology Lab
- m) Biochemistry Lab (also used as seating room of the faculty)
- n) Soil Microbiology Lab (also used as seating room of the faculty)
- o) Irrigation Lab (also used as seating room of the faculty)

Dept. of CIHAB

- p) Genetics and Plant breeding Lab
- q) Tissue Analysis Lab
- r) Post Harvest Studies Lab

Dept. of EES

- s) Computer Lab
- t) Audiovisual Lab

Dept. of PP

- u) Plant Pathology Lab (also used as seating room of the faculty)
- v) Inoculation chamber
- w) Insect rearing chamber
- x) Bio-control Lab

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :

b) from other institutions/universities:

List of Doctoral Students of Department of ASEPAN

SL.NO	NAME OF THE STUDENT	State	Remarks
AGRONOMY			
1.	ABHIJIT MANDAL	WB	Working
2.	ANUPAM MUKHERJEE	WB	Working
3.	BHABANI SANKAR NAYAK	Odisha	Working
4.	DHIMAN SEN	WB	Working
5.	KISHORE CHANDRA SAHOO	Odisha	Working
6.	MALAY KUMAR BHOUMICK	WB	Working
7.	NANGTHOMBAM ANANDO SINGH	Manipu	Working
8.	PRABIR KUMAR SAHA	WB	Working
9.	PRAMILA NAYAK	Odisha	Working
10.	SUSHANTA KUMAR JATA	Odisha	Working
11.	TUSHAR RANJAN MOHANTY	Odisha	Working

12.	ANITA MAHAPATRA	Odisha	Working
13.	ANSHUMAN NAYAK	Odisha	Working
14.	BHABANI SANKAR BISHOYI	Odisha	Working
15.	BISWA RANJAN NAYAK	Odisha	Working
16.	KINGKAR DEYTARAFDER	WB	Working
17.	LOKNATH SHARMA	WB	Working
18.	PADMAJA GUPTA	Jharkarnd	Working
19.	RATIKANTA MAHANTA	Odisha	Working
20.	SUMANA GHOSH	WB	Working
21.	SWAHA SHEE	WB	Working
22.	WAIKHOM JITEN SINGH	Mainipur	Working
23.	AKSHAYA KUMAR SETHY	Odisha	Working
24.	ASIM CHANDRA DASH	Odisha	Working
25.	MANDIRA CHAKRABORTY	Tripura	Working
26.	MD. GIASUDDIN	WB	Working
27.	SAJEEB KUMAR BISWASI	Odisha	Working
28.	SEKHAR SING MURA	WB	Working
29.	SUBHRANATH HENSH	WB	Working
30.	SUROJIT GOPE	WB	Working
31.	TARAMA CHATTERJEE	WB	Working
32.	ASHIM MIDYA	WB	Working
33.	BHABANI SANKAR SATAPATHY	Odisha	Working
34.	SAGARIKA MALIK	WB	Working
35.	SOUVIK DALAL	WB	Working
36.	SOMA MUKHERJEE	WB	Working
37.	SPURTI MONDAL	WB	Working
38.	TANMOY SHANKAR	Jharkhand	Working
39.	M. MALLIKARJUN	AP	Working
40.	AMALESH GHOSH	WB	Working
41.	NAKUL MONDAL	WB	Working
42.	BISWAJIT SAHA	WB	Working
43.	NITYANANDA BAG	WB	Working
SOIL SCIENCE & AGRIL. CHEMISTRY			
1.	ATHOKPAM HARIBHUSAHN	Odisha	Working
2.	PARITOSH PATRA	WB	Working
3.	SIDHARTHA MITRA	WB	Working
4.	JIBANJIT SEN	Odisha	Working

5.	SUMANTA KAR	WB	Working
6.	BIPLAB KUMAR PATI	WB	Working
7.	MD. SOYEB ALI	WB	Working
8.	ABHISEK SAHA	WB	Working
9.	MD. ASIF IQBAL	WB	Working
10.	BIBHUTI BHUSAN BEHERA	Odisha	Working
11.	PRADIPTA BANERJEE	WB	Working
12.	RUPABAKOR C. WARJRI	Odisha	Working
13.	GOBINDA CHANDRA SHAHOO	Odisha	Working
14.	LATA MALIK	Odisha	Working
15.	PRADIPTA MAJHI	WB	Working
16.	CHITTARANJAN SARANGI	WB	Working
17.	SIDHARTHA MALICK	WB	Working
18.	CHINDANANDA SINGH MURA	WB	Working
19.	MONISANKAR BERA	WB	Working
20.	ARUNAVA SAMANTA	WB	Working
21.	MERRINE RAJU	Tamil Nadu	Working
ANIMAL SCIENCE			
1	SUJOY KUMAR SIKDAR	WB	Working
2	GOBINDA HALDER	WB	Working
3	NIRMAL KUMAR TUDU	WB	Working
4	PRATUSH BHASKAR	WB	Working
5	ARUNA CHAKRABORTY	WB	Working
AGRIL. ENGINEERING			
1.	DINESH KUMAR RUSIA	Jharkhand	Working

List of Doctoral Students of Department of CIHAB

Sl. No.	Name of the Ph.D students	State	Remarks
1.	S. S. Singh	Manipur	Working
2.	Rincy K. Abraham	Kerala	Working
3.	Saudamini Swain	Odisha	Working
4.	Himadri Sekhar Das	WB (outside Visva-Bharati)	Working
5.	Bibhuti Bhusan Sahoo	Odisha	Working
6.	G. P. Rao	Kerala	Working
7.	Sandip Dutta	WB(outside Visva-Bharati)	Working

8.	Sanjeev K. Singh	Jharkhand	Working
9.	Dudhane Abhijeet Sarjerao	Maharashtra	Working
10.	Indrajit Sarkar	WB (outside Visva-Bharati)	Working
11.	Vilas D. Gasti	AP	Working
12.	Sukanta Kumar Sahoo	Odisha	Working
13.	Brijesh Pandey	Bihar	Working
14.	Amitava Panda	Odisha	Working
15.	Suman Mukherjee	WB(outside Visva-Bharati)	Working
16.	Lourembam Promin	Manipur	Awarded
17.	Md. Banaz Alam	WB	Working
18.	Himal Pokhrel	Sikim	Working
19.	Naorem Brajendra Singh	Manipur	Thesis submitted
20.	Sanghamitra Pattanaik	Odisha	Thesis submitted
21.	Juhie Konal Marak	Meghalaya	Working
22.	Chinanshuk Ghosh	WB	Thesis submitted
23.	N. Montessori Devi	Manipur	Thesis submitted
24.	Kh. Swarnalata Devi	Manipur	Thesis submitted
25.	Vinod Kumar Dhangraha	UP	Working
26.	Ranjan Kumar Singh	Bihar	Working
27.	Sarnam Singh (Gn)	Gujrat	Working

List of Doctoral Students of Department of EES

Year	Name	Category	University
2008	Mr. Manoranjan Mohapatra	Ag. Extension	Came from outside VB
2008	Mr. Jagannath Patra	Ag. Extension	Came from outside VB
2009	Ms. Soma Bhattacharya (Biswas)	Ag. Extension	Came from outside VB
2009	Mr. Chandan Singha	Ag. Economics	Came from outside VB
2009	Mr. Mahamaya Prasad Nayak	Ag. Extension	Came from outside VB
2010	Mr Basudeo Kharga	Ag. Extension	Came from outside VB
2010	Mr. Sangram Paramguru	Ag. Extension	Came from outside VB
2010	Dilruba Khatun	Ag. Economics	Came from outside VB

2010	Mr. Md. Mozamual Hoque	Ag. Extension	Came from outside VB
2010	Mr. Sumantra Hazara	Ag. Economics	Came from outside VB
2010	Ranjan Kumar Biswas	Ag. Economics	Came from out side VB
2011	Ms. Riya Ghoshal	Ag. Extension	Came from out side VB
2011	Mr. Snehasish Karmakar	Ag. Economics	Came from out side VB
2011	Mr. Anuttam Pariari	Ag. Extension	From VB
2011	Mr. Subir Kumar Sinha	Ag. Extension	Came from out side VB
2011	Ms. Madhumita Jena	Ag. Extension	Came from out side VB
2011	Mr. Narayan Bar	Ag. Extension	Came from out side VB
2011	Mr. Saran Kumar Rizal	Ag. Extension	Came from out side VB
2011	Mr. Debabrata Mondal	Ag. Extension	From VB
2011	Ms. Satarupa Nandi	Ag. Economics	From VB
2011	Ms. Joyoti Gayen	Ag. Economics	Came from out side VB
2012	Mr Kharendra Reang	Ag. Extension	Came from out side VB
2012	Mr Samir Ranjan Das	Ag. Extension	Came from out side VB
2012	Mr. Sourav Chakraborty	Ag. Statistics	Came from out side VB
2014	Shiva Prakash	Ag. Economics	Came from out side VB
2014	Debabrata Paul	Ag. Economics	Came from out side VB
2014	Uday shanker mall	Ag. Economics	Came from out side VB
2014	Gosai Das Bairagya	Ag. Economics	Came from out side VB
2014	Gourgopal Chattopadhyay	Ag. Economics	Came from out side VB
2014	Jai Prakash	Ag. Economics	Came from out side VB
2014	Chitrasena Padhy	Ag. Extension	Came from out side VB
2014	Sabyasachi Roy	Ag. Extension	Came from out side VB
2014	Sanjenbam Sher singh	Ag. Extension	From VB
2014	Santanu kumar Patra	Ag. Extension	Came from out side VB
2014	Subhadip Das	Ag. Extension	Came from out side VB
2014	Abhiram Dash	Ag. Statistics	Came from out side VB

Deptartment of PP

Name (Academic session 2009-10)	Host/Other Institution	Subject
1. Sri Sourav Mandal	*(Host Institution)	Agril Entomology
2. Bipattaran Pandit	(Other Institution)	-do-

3. Sri Soumen Chakraborty	(Other Institution)	-do-
4. Sri Debojit Das	(Other Institution)	-do-
5. Sri Sukhabrata Sarkar	(Other Institution)	-do-
6. Sri Samarendra Boral	(Other Institution)	-do-
7. Siraj Monir	(Other Institution)	Plant pathology
8. Sri Sandipan Garain	*(Host Institution)	-do-
9. Sri Karamchand Hembram	(Other Institution)	-do-
Name (Academic session 2010-11)		Subject
10. Sri Sitesh Chatterjee	(Other Institution)	Agril Entomology
11. Mrs Malabika Debnath	(Other Institution)	-do-
12. Sri Amitava Sarkar	(Other Institution)	Plant pathology
13. Sri Chandan Bhuinya	(Other Institution)	-do-
Name (Academic session 2011-12)		Subject
14. Mrs Hiranmayee Pradhan	(Other Institution)	Agril Entomology
15. Sri Pramod Chintalkulawar	(Other Institution)	-do-
16. Sri Anuj Kumar Mumgain	*(Host Institution)	-do-
17. Sri Saktipada Mondal	(Other Institution)	Plant pathology
18. Sri Subhadeep Pal	(Other Institution)	-do-
Name (Academic session 2012-13)		Subject
19. Atit Maji	*(Host Institution)	Plant pathology
20. Debjani Chowdhury	(Other Institution)	-do-
21. Diksha Goutam	(Other Institution)	-do-
22. Uttam Mondal	*(Host Institution)	-do-
23. Monish Dey	*(Host Institution)	-do-

24. Pradip Kumar Paramanik	*(Host Institution)	-do-
25. Rini Pal	(Other Institution)	-do-
26. P Nagamoni	(Other Institution)	-do-
27. Chandan Maity	*(Host Institution)	Agril Entomology
28. Sanjay Mahanty	(Other Institution)	-do-

- 40. Number of post graduate students getting financial assistance from the university.**
Each year **12 numbers** of post graduate students are getting financial assistance from the university.
- 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**
Need assessment is exercised by the ICAR by forming Deans' Committee to which the Principal, PSB becomes a member and also by organizing regular meetings of VCs of State Agricultural Universities (SAUs) to which the VC of our university is also invited. The Deans' Committee and VCs Conference regularly evaluates the current course curriculum and accordingly modifications are done after inviting feedbacks from the all stake holders. The institute adopts ICAR proposed syllabus and course curriculum after some modification based on needs of local agricultural scenario through conducting series of staff meetings and finally approved by BOS meeting at Department and Joint BOS at Institute and Academic Council at University level.
- 42. Does the department obtain feedback from:**
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**
Yes, by conducting time to time PG standing committee ,Bhavana Admission committee and Joint Board of Studies meetings, these issues are being discussed and if required necessary steps are taken.
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**
Not done earlier, but recently initiated by the university.
 - alumni and employers on the programmes offered and how does the department utilize the feedback?**
Interactions are made with the alumni during Reunion Meet.
- 43. List the distinguished alumni of the department (maximum 10):**
- Prof. D. Dasgupta, Ex-VC, BCKV

- b) Professor Mrinal Kanti Dasgupta, Retd. Professor, Visva-Bharati
- c) Prof. R. K. Sarkar, Khaira professor, University of Calcutta
- d) Prof. A. K. Samsul Huda, University of Western Sydney, Australia
- e) Dr. Dilip Kumar Lakshman, USDA-ARS, USA
- f) Dr. Gopi Nath Ghosh, FAO, New Delhi
- g) Dr. Benugopal Mukhopadhyay, Deputy General Manager, NABARD, Mumbai
- h) Dr. Prabir Kumar Ghosh, Director, IGFRI (ICAR), Jhansi
- i) Dr. Nawajes Ali Mondal, Ophthalmology Department, University of Michigan, USA
- j) Dr. V.G. Girish, Taiwan University
- k) Dr. G.C. Debnath, Director, Regional Meteorological Centre, Alipore, Kolkata
- l) Dr. A.K. Mondal, Director, Tropical Institutes of Forest Research, Ranchi

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:

- a) The Fertiliser Association of India conducted 2-days (16-17 January, 2014) Fertiliser Orientation course at our Institute for the students of final year UG and all PG students with renowned resource persons such as Dr. A. K. Singh (Zonal PD-ICAR, Kolkata), Dr. S. Datta (IPNI, Kolkata), Dr. N. K. Awasthi (IPI, New Delhi) and others.
- b) Dr. Humberto Gonza'lez Rodriguez (UNAL, Mexico) delivered a talk on Forest Management and Forest Products of Mexico in August, 2011 which attended by UG and PG students.
- c) Dr. M. Nedunchezian, Principal Scientist (CTCRI, ICAR) made a presentation on Tuber crops in July, 2013.

45. List the teaching methods adopted by the faculty for different programmes:

- a) Lecture by the use of black board / white board
- b) Lecture by power point presentation
- c) Demonstration by graphs, charts and photos
- d) On line interaction through e-mails.
- e) Interaction through personal contact during off class hours as well as off days
- f) Interaction with the students through phone calls
- g) Laboratory practical in groups
- h) Field practical in groups
- i) Field visit and interaction with farmers in nearby villages
- j) Tutorial guidance for the preparation of different competitive exams particularly ICAR-JRF examination
- k) Remedial coaching was also initiated for SC,ST and OBC candidates

- l) Study tour to different university campus and research institutes
- m) Guiding UG students individually or in group to prepare assignments/term papers
- n) Guiding PG and Ph D students individually for conducting dissertation work
- o) Checking practical record/field note book/field visit report during off the class hours
- p) Informal interaction with the students by the faculties during College picnic, NSS days, *Gandhee Punnah* (day of campus cleaning), day of *vasant utsav* (on the day of Holi students visit teachers residence in group), occasion of *Hala Karshan* (festival of ploughing), *Briksh Ropan* (tree plantation), *pous utsav*, annual Sriniketan festival.
- q) Non-verbal communication of knowledge through simplicity of campus life with greeneries and rich biodiversity, cordial ambience, cultural affluence and openness of student –teachers’ relationship.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

By organizing student teacher meeting/ interaction and by inviting opinions from alumni.

47. Highlight the participation of students and faculty in extension activities:

- a) Field Extension work through Rural Agricultural Work Experience (RAWE)
- b) Institute & Community Cleaning during Gandhi Punnah (10th March each year)
- c) Organization of 7 days workshop on *Parthenium* on the occasion of *Parthenium* Awareness Week every week and during some other time
- d) Demonstration stall at 3-days Annual Sriniketan Festival
- e) Conducting field experiments for PG and Ph D research at farmers’ field
- f) Organizing farmers-scientists meet
- g) Our faculties are regularly invited to participate in different farmers’ training programmes and training programmes for extension officers organized by Rathindra Krishi Vignan Kendra, Agricultural Departments of Govt. of W.B., different NGOs such Manab Jamin, Rama Krishna Mission and corporate bodies such as IFFCO etc.
- h) Our faculties also participate in radio talk and TV programmes on agriculture.
- i) NSS programmes on the aspect of tree plantation, campus cleaning, awareness programme such thalassemea, traffic rules etc.

48. Give details of “beyond syllabus scholarly activities” of the department:

- a) The Institute organizes Orientation Programme for newly admitted UG students every year which includes one session of orientation lecture where guardians are

also invited followed by visits to libraries, farms, entire Sriniketan campus including departments and Santiniketan campus including Rabindra Bhavana.

- b) Prof. S. K. Pyne of Dept. of ASEPAN as member of Rotary International and former President of Rotary Club of Bolpur- Santiniketan is associated with different activities such as water recharging project of Central Govt., water and sanitation Project under Rotary International, literacy campaign programme, orphan children school etc.
- c) Prof. B. K. Saren of Dept. of ASEPAN is acting as Editor of UMUL a Literary Magazine in Santali, acted as Member of **Selection Committee & Judge, Sahitya Akademi, New Delhi and** Member of Translation Mission, **CIIL, Mysore** also remained member of West Bengal Santali Akademi upto May 2011.
- d) Dr. S. K. Maity, Dept of ASEPAN had organized several training courses of *yoga* and *pranayam* in collaboration with Art of Living centre of Durgapur with wide participation of students and staff of different faculties of the university.
- e) Students of PSB and Social Work jointly under the banner of Alexis Centre for Agriculture and Rural Development had organized two separate seminars/workshop on Democracy and Right to Information act in collaboration with Liberal Youth Forum, New Delhi in November 2012 and Legal awareness camp with active support and participation of Legal Services Authority of Birbhum District and Bolpur Sub-Divisional Court in January 2013.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

The UG and PG programme run by the institute are as per ICAR regulation and recognized by the ICAR. The institute is recognized by both ICAR and UGC.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

Innovations in teaching:

- a) Knowledge imbibitions from the campus life with greeneries and rich biodiversity, cordial ambience and simplicity of life style, cultural affluence and openness of student –teachers’ relationship.
- b) Adoption of Choice Based Course Credit and Semester system of teaching both at UG and PG level.
- c) Use of multimedia in teaching deliberations
- d) Learning by doing project work, field visit etc.
- e) Sensitizing the students with the realities of the farming community and agricultural practices in the villages through one semester programme on Rural Agricultural Work Experience.

- f) Entrepreneurship skill through introduction of experiential learning courses (to be started from coming academic session).
- g) The institute offers three e-courses on Disaster Management and Research Ethics and Intellectual Property Rights compulsorily to all the PG students.

Innovations in research:

- a) Release, multiplication and successful establishment of Mexican beetle (*Zygogramma bicolorata*) – an insect bio-agent on noxious weed *Parthenium* (*Parthenium hysterophorus*) in the districts of Birbhum and parts of Burdwan and Bankura.
- b) Identification, evaluation and recommendation of competitive local plants for replacement of *Parthenium*.
- c) Improved weed management technologies in different crops and cropping systems
- d) Weed management under reduced/zero tillage in rice-yellow sarson, rice-wheat cropping system.
- e) Agro-technology of hybrid rice production in the lateritic belt of West Bengal
- f) Agro-technology of baby corn production
- g) Mulching and other soil conservation technologies in rainfed crops.
- h) Alternate method of rice cultivation such as direct seeded rice, drum seeding of rice and system of rice intensification (SRI) which can save water, money and ecofriendly.
- i) Integrated nutrient management in different crops and cropping systems.
- j) Vermicomposting technology and improved vermicompost with microbial fortification
- k) Vermicomposted fly ash technology – an eco-friendly disposal of fly ash
- l) GIS based soil fertility mapping
- m) Identification suitable genotype(s) for direct use as variety and/ or indirect use in cross-breeding programme for utilization of heterosis effect in F₁ generation or isolation of promising segregants in advanced generation of breeding.
- n) Identification of resistant/ tolerant lines of taro and sweet potato stress resistance/tolerance breeding programme for use by growers.
- o) Gene for resistance to gall midge in rice has been identified through RAPD markers which will help in molecular breeding of rice.
- p) Breeding for increasing physiological efficiency of sesame helping in changing the physiological rhythm of sesame with efficient plant type for rice based cropping system.

- q) Improved techniques for vegetative propagation of some fruit crops have been developed.
- r) Integrated Nutrient Management for some fruits, vegetables, flowers and medicinal plants have been standardized.
- s) Trials on organic farming and post harvest management of different horticultural crops are going on.
- t) Initiation of Hi-tech Horticulture with special reference to micro-irrigation, polyhouses etc.
- u) Contribution in developing impact analysis tools of different projects and programmes, reliability analysis of complex systems, studies of inequality in food security etc.
- v) Sustainable management of brinjal fruit and shoot borer in egg plant, important insect-pests of rice and management of bacterial wilt in a eco-friendly way has been developed.
- w) Introduction of new technology and concept of Horticulture – cultivation of aromatic grasses under wasteland areas.

Innovations in extension:

- a) Demonstration plots on improved techniques of commercial vegetable cultivation.
- b) 'On Farm' trials on improved agro-techniques on fruit, vegetable and aromatic crops are going on as method as well as result demonstrations to the growers.
- c) Conducting some PG and Ph. D. research in farmers field
- d) Field visit and interactions with the farmers
- e) Scientists-Farmers meet
- f) Training programme by RKVK to practising farmers, women farmers and extension officials.
- g) Entrepreneurship Training by RKVK for rural youth.
- h) RKVK conducts 'On Farm Trial', 'Front Line Demonstration Trial' on improved agro-techniques at the farmers' field.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department :

a) Strengths:

- i) The heritage of the institute with ideals and vision of Nobel Laureate Rabindranath Tagore, his son Rathindranath Tagore, first Vice-chancellor of Visva-Bharati and the great philanthropist Leonard K Elmhirst providing constant source of inspiration.
- ii) Existence of cordial ambience among teachers, students and other staff of

the institute effective for teaching and learning process.

- iii) Dedicated faculties of national and international reputation and mutual respect among present and former faculties who benevolently extend their advice and all sort of cooperation.
- iv) At the entry level of UG programme creamy layer of students next to medical and engineering discipline opt for agriculture discipline and they also earn fame for the institute with their extra-ordinary performance in All India level ICAR-JRF Exams, JNU and BHU Entrance Test for PG programme, ICAR- NET, Banking Service, School Service and various other competitive examinations.
- v) Perpetuation of constructive interaction with so many alumni of the institute serving national and international research institutes, universities and administration at different levels.

b) Weakness:

- i) Infrastructural inadequacy such as teacher' seating room, laboratory space, PG and Ph D classroom space, ladies hostel, PG and Ph. D. scholar hostel.
- ii) Acute shortage of qualified administrative, supporting and technical staff at the departmental level and lack of students at PG level with impressive academic record and enthusiasm as most of our UG students are admitted to other Universities/Institutes through ICAR, many of them with fellowship.
- iii) Inadequate research infrastructure with no field and research assistant, lacking of modern laboratory facilities with laboratory personnel, lack of manpower and modern facilities at Agricultural Farm, Dairy Farm and Horticultural Farm.

c) Opportunities:

- i) Ample opportunity to cater to the need of agricultural education to the students of rural area of the locality as this district is still enlisted as one of the backward districts of the state.
- ii) Provided with research infrastructural facilities, intake for PG and Ph. D. programme can still be increased and post-doctoral studies and also other short term vocational oriented certificate course can be started.
- iii) Developing active collaborative research and extension work with Agriculture Dept. of Govt. of WB getting access to their research farms nearby and also with NGOs and Corporate sectors.
- iv) There is scope of interdisciplinary teaching, research and extension work within the Visva-Bharati University with collaborative approaches particularly with the Departments of Botany, Biotechnology, Statistics,

Computer Science and Environmental Sciences of Siksha Bhavana; Departments of Economics and Geography of Vidya Bhavana and Departments Social Work, Rural Extension Centre and Palli Charcha Kendra of Palli Sangathan Vibhaga.

- v) Farmer advisory service with a Kisan Call Centre can be established to cater the need of farmers in challenging scenarios of global free trade regime and rapid climate change.

d) Challenges:

- i) More numbers of students from urban area are coming to agriculture discipline whereas promising students of rural area are still not sufficiently aware with the dignity and prospect of agricultural education. Therefore, selecting more numbers students with rural back ground for agriculture education is a great challenge.
- ii) Research priority needs to be oriented toward organic farming and integrated farming system in the context of increasing input cost, soil health problem and sustenance of livelihood and on rain water management including rain water harvesting and irrigation research particularly micro-irrigation system.
- iii) To orient the students' attitude toward self entrepreneurship instead of job orientation learning of agriculture.
To attract students from other states and abroad with strong academic enthusiasm particularly at PG and Ph. D. level.

52. Future plans of the department:

- a) Efforts have been initiated for splitting the present composite departments into departments of each subject keeping parity with the departments at national context.
- b) There are proposals to start new PG courses in the disciplines such as Agricultural Engineering and Poultry Science.
- c) Modernisation of Agricultural Farm, Dairy Farm and Horticultural Farm has been initiated with the grants of ICAR.
- d) The courses on Experiential Learning will be initiated in coming academic year to impart the agricultural graduate entrepreneurship orientation.
- e) Construction of new PG and Ph.D. scholar hostels and renovation of existing boys' and girls' hostel has been planned.
- f) There is a plan to have centralised multidisciplinary research facilities with availing grants from ICAR, UGC or some corporate sectors.
- g) The institute is pondering with an idea to initiate a seminar series with eminent speakers for the students and to organise regularly personality development

oriented motivational discussion/counselling for students as well as faculties and other staff of the institute.

- h) Collaborative interdisciplinary teaching, research and extension programme with other departments of the university are being explored by the institute.

Evaluative Report of the Department of ASEPAN

1. **Name of the Department : ASEPAN**
The Department consists of six disciplines namely Agronomy, Soil Science, Agril. Engg., Plant Physiology & Animal Science, that has been abbreviated as The Department of ASEPAN. The Department mainly involves in teaching (UG, PG and Ph.D), research and extension works. The Department has been offering two post graduate courses namely, M.Sc. (Ag) in Agronomy and M.Sc. (Ag) in Soil Science & Agricultural Chemistry and Ph. D. programmes are running in all mentioned disciplines.
2. **Year of establishment : 1989**
3. **Is the Department part of a School/Faculty of the university?** Yes, The Department is a part of a faculty of the University.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) : UG (interdisciplinary), PG (in Agronomy and Soil Science&Agril. Chemistry) and Ph.D.(in each disciplines under traditional system)**
5. **Interdisciplinary programmes and departments involved:** Purely inter disciplinary programmes in UG courses. The Department is also involved inter-disciplinary courses in PG programmes such as: Disaster Management, Basic Concepts in Laboratory Techniques, Agriculture Research, Research Ethics and Rural Development.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Ph. D research work in collaboration with Universities like BCKV, UBKV, OUAT (Bhubaneswar), BAU (Ranchi), WBUAFS (Belgachia), CAU(Imphal), ICAR Institutes like CRIJAF, CARI, IISR, etc. Central Sericulture Training and Research Institute and State Research Institutes.
7. **Details of programmes discontinued, if any, with reasons:** There is no such programme discontinued.
8. **Examination System:** Semester system/Choice Based Credit System.

- 9. Participation of the department in the courses offered by other departments:**
 Within Institute: Courses like Principles and Practices of Weed Management, Growth and Development of Fruit, Vegetable and Ornamental Crops, Agronomy of Pulse Crops, Soil Erosion and Conservation.
 Outside the Institute: Courses like Agriculture Farm Training, Animal Husbandry offered to Social Work Department, PSV, VB.

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

	Sanctioned ⁺	Filled	Actual (including CAS & MPS)
Professor	1	0	6 (1 vacant)
Associate Professors	5	4	5 (1 vacant)
Asst. Professors	19	18	11(1 vacant)
Others	-	-	-

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

- a) **Name** : Prof. A. K. Barik
Qualification : M.Sc. (Ag), Ph. D
Designation : Professor
Specialization : Crop Husbandry
No. of Years of Experience : 20
No. of Ph.D./M.Phil. students guided for the last 4 years : 05
- b) **Name** : Dr. B. Duary
Qualification : M. Sc (Ag), Ph. D
Designation : Associate Professor
Specialization : Weed Management, Agro Meteorology, Cropping system
No. of Years of Experience : 14^{1/2}
No. of Ph.D./M.Phil. students guided for the last 4 years : 3 + 6 (continuing)
- c) **Name** : Dr. G. C. Malik
Qualification : M. Sc (Ag), Ph. D
Designation : Associate Professor
Specialization : Crop Husbandry
No. of Years of Experience : 13

- No. of Ph.D./M.Phil. students guided for the last 4 years** : 4+5(continuing)
- d) **Name** : Dr. S. K. Maity
Qualification : M. Sc (Agro.), Ph. D
Designation : Assistant Professor
Specialization : Crop Husbandry
No. of Years of Experience : 09
No. of Ph.D./M.Phil. students guided for the last 4 years : 02
- e) **Name** : Dr. K. Pramanik
Qualification : M. Sc (Agro.), Ph. D
Designation : Assistant Professor
Specialization : Dryland Agric., Water & nutrient Management
No. of Years of Experience : 7¹/₂
No. of Ph.D./M.Phil. students guided for the last 4 years : 5 (continuing, 1-submitted)
- f) **Name** : Dr. (Mrs.) M. Banerjee
Qualification : M. Sc (Agro.), Ph. D
Designation : Assistant Professor
Specialization : Crop Husbandry
No. of Years of Experience : 06
No. of Ph.D./M.Phil. students guided for the last 4 years : 06(continuing)
- g) **Name** : Dr. N. C. Sarkar
Qualification : M. Sc (Agro.), Ph. D
Designation : Assistant Professor
Specialization : Crop Husbandry
No. of Years of Experience : 06
No. of Ph.D./M.Phil. students guided for the last 4 years : 05
- h) **Name** : Prof. A. K. Chatterjee
Qualification : M. Sc (Ag.), Ph. D
Designation : Professor
Specialization : Soil Fertility, Soil Chemistry
No. of Years of Experience : 27

- No. of Ph.D./M.Phil. students
guided for the last 4 years** : 02
- i) **Name** : Prof. S. R. Mitra
Qualification : M. Sc., Ph. D
Designation : Professor
Specialization : Agril. Chemistry & Biochemistry
No. of Years of Experience : 28
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 03
- j) **Name** : Prof. G. K. Ghosh
Qualification : M. Sc. (Ag.), Ph. D
Designation : Professor
Specialization : Soil Fertility, Soil Chemistry, plant nutrition
No. of Years of Experience : 17
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 01
- k) **Name** : Dr. P. K. Biswas
Qualification : M. Sc (Ag.), Ph. D
Designation : Associate Professor
Specialization : Soil Fertility, Soil Chemistry, plant nutrition
No. of Years of Experience : 12¹/₂
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 04
- l) **Name** : Dr. (Mrs.) S. Mondal
Qualification : M. Sc (Ag.), Ph. D
Designation : Assistant Professor
Specialization : Soil Fertility
No. of Years of Experience : 09
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : Nil
- m) **Name** : Dr. Y. V. Rao
Qualification : Ph. D
Designation : Assistant Professor
Specialization : Biochemistry
No. of Years of Experience : 07
No. of Ph.D./M.Phil. students

- guided for the last 4 years : 03
- n) **Name** : Dr. M. K. Kundu
Qualification : M. Sc (Ag.), Ph. D
Designation : Assistant Professor
Specialization : Soil Fertility, Soil Chemistry, Soil Physics
No. of Years of Experience : 05
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil
- o) **Name** : Prof. S. K. Pyne
Qualification : Ph. D
Designation : Professor
Specialization : Animal Reproduction, livestock & Environment
No. of Years of Experience : 28
No. of Ph.D./M.Phil. students guided for the last 4 years : 03(continuing)
- p) **Name** : Dr. J. K. Chatterjee
Qualification : Ph. D
Designation : Associate Professor
Specialization : Animal Production & Management
No. of Years of Experience : 25
No. of Ph.D./M.Phil. students guided for the last 4 years : 02(continuing)
- q) **Name** : Dr. R. Moitra
Qualification : M. Tech., Ph. D
Designation : Associate Professor
Specialization : Soil & Water conservation engineering
No. of Years of Experience : 32
No. of Ph.D./M.Phil. students guided for the last 4 years : 01
- r) **Name** : Dr. P. Kandasamy
Qualification : M. E. (Ag), Ph. D
Designation : Assistant Professor
Specialization : Agril. Processing & Food Engineering
No. of Years of Experience : 09¹/₂
No. of Ph.D./M.Phil. students

- guided for the last 4 years : Nil
- s) **Name** : Dr. K. C. Swain
Qualification : D. Engg. (Agril. Eng)
Designation : Assistant Professor
Specialization : Farm Mechanical, Climate change, Renewable Energy
No. of Years of Experience : 06
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil
- t) **Name** : Dr. D. Panda
Qualification : M. Sc (Ag) Pl. Phy. Ph.D
Designation : Assistant Professor
Specialization : Plant & stress Physio., Plant growth regulation
No. of Years of Experience : 09
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil
- u) **Name** : Dr.(Mrs.) S. Mondal
Qualification : M. Sc (Ag) Pl. Phy. Ph.D
Designation : Assistant Professor
Specialization : Stress Physiology, tissue culture
No. of Years of Experience : 09 months
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil

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

- a) Dr. Humberto Gonza'lez Rodriguez (UNAL, Mexico)
- b) Mr. M. K. Narayanan (Hon'ble Governor, West Bengal & Rector, Visva-Bharati)
- c) Dr. M. Nendunchezhyan (CTCRI, ICAR, Bhubaneswar)
- d) Dr.(Mrs) Kuhu Raha (Regional Manager, ACIAR, South Asia)
- e) Dr. Mangilal Jat (CYMMIT, New Delhi)
- f) Prof. C. S. Chakraborty, Vice Chancellor, WBUAFS (Belgachia)
- g) Dr. C. Debkumar (ADG, ICAR, New Delhi)
- h) Dr. A. R. Sharma (Director, DWSR, Jabalpur)
- i) Prof Sisir K. Mukhopadhyay, Emeritus Professor.
- j) Prof. Biswapati Mondal, BCKV
- k) Prof. Amitabha Rakshit, BHU
- l) Prof. Amlan Kumar Ghosh, BHU

- m) Prof. Priyankar Raha, BHU
- n) Prof. G.C. Hazra, BCKV
- o) Prof. A.K.Saha, UBKV
- p) Prof. A.K.Sarkar, Birsa Agrl. Univ.
- q) Prof. G.H.Santra, OUAT

13. **Percentage of classes taken by temporary faculty — programme-wise:** There is no such programme.

14. **Programme-wise Student Teacher Ratio :**

Programmes	Student: Teacher (cumulative)	Remarks
UG (Shared), PG & Ph. D.	14.3 : 1	There are no separate teachers for different programmes. Same teachers are engaged in UG, PG and Ph. D programmes

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

Support Staff	Sanctioned	Filled	Actual
Technical	9	6	6 (3 vacant)
Administrative	1	1	1

16. **Research thrust areas as recognized by major funding agencies:**

- a) Soil Fertility Management
- b) Integrated Weed Management
- c) Soil Moisture Conservation techniques
- d) Vermi-composting technology
- e) Soil Health Improvement through organic matter use
- f) Use of Fly Ash
- g) Use of Rock phosphate

17. **Number of faculty with ongoing projects from a) national b) international agencies and c) Total grants received. Give the names of the project title and grants received project-wise:**

Faculty involved		Grant Received (2009-2013)
National	4	206.2 lakhs
International	2	3.96 lakhs
Total	6	210.16 lakhs

Name of Faculty(s)	Title of the Project	Funding Agency	Grants received(Rs.)
Prof. B. K. Saren	Drought management of jute under deficit rainfall areas	CRIJAF, ICAR, New Delhi	13.45 lakhs (Upto 2011-12)
Dr. B. Duary	All India Coordinated Research Programme on Weed Control	ICAR, New Delhi	37 lakhs /year
Dr. B. Duary	Bioefficacy of propaquizafop in jute (EPJ).	Makhtesim Agan India Pvt. Ltd., Hyderabad	1.98 lakhs
Dr. B. Duary	Bioefficacy of Bensulfuron-methyl in transplanted Rice (BBTR)	Crystal Crop Protection Pvt. Ltd., New Delhi	5.28 lakhs
Dr. B. Duary	Bioefficacy of Bispyribac sodium in Rice (BBSR)	Crystal Crop Protection Pvt. Ltd., New Delhi	3.19 lakhs
Dr. B. Duary	National Invasive Weed Surveillance (NIWS) Project (Completed in September, 2010)	Ministry of Agriculture and Cooperation, Govt. of India	12 lakhs
Dr. G. C. Malik	Bio+Phytotoxicity evaluation of some herbicides and fungicides in different crops against different weeds and diseases scenario	Syngenta	8.2 lakhs
Dr. G. C. Malik (PI) Dr.(Mrs.)M. Banerjee (Co PI)	Bio efficacy and Phytotoxicity evaluation of some herbicides and	Bayer	5.58lakhs

	insecticides in different crops against different weeds and insect scenario		
Dr. G. C. Malik & Dr.(Mrs.)M. Banerjee	Nutrient optimization and yield intensification of major cereal systems of eastern India	IPNI	3.96 lakhs
Dr.(Mrs.)M. Banerjee	Evaluation of fertilizer potential of sea weed saps on different crops	CSIR-CSMCRI	8.52 lakhs
Prof. G. C. De	Evaluation of different Godrej products (completed in 2012-13)	Godrej Agrovet Ltd, Mumbai	0.40 lakhs
Prof. G. C. De	Evaluation of hybrids of some field crops. (completed in 2012-13)	Devgen Seeds corporation Ltd., Hyderabad	0.50 lakhs
Dr. K. Pramanik	Trial on different grades of customized fertilizes on growth and yield of aman as well as boro paddy.	Indo-Gulf Fertilizers	0.77 lakhs
Dr. K. Pramanik	Trial on different grades of customized fertilizes on growth and yield of potato.	Indo-Gulf Fertilizers	0.715 lakhs

18. Inter-institutional collaborative projects and associated grants

- a) **National collaboration:** Technology Mission on Jute (MM-1.5) collaborative project with CRIJAF (ICAR), Barrackpore and grant received Rs.13.45 lakhs.
b) **International collaboration:** Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, AICTE, etc.; total

grants received: 181.97 lakhs.

20. Research facility / centre with

- a) **state recognition** : Soil Testing Laboratory
- b) **national recognition**: AICRP-Weed Control
- c) **international recognition**: does not exist

21. Special research laboratories sponsored by / created by industry or corporate bodies: There is no special research laboratories sponsored by industries.

22. Publications:

a) **No. of papers published in peer reviewed journals:**

i) **National/International:** 140

b) **Monographs:** 19

c) **Chapters in Books:** 43

d) **Edited Books:** 05

e) **Books with ISBN with details of publishers:**

i) Maiti, R.K. and Sarkar, N.C, Advances in Agro-technology, Puspaa Publishing House, Kolkata, 2012, (ISBN 978-81-920073-6-6).

ii) Maiti, R.K. and Sarkar, N.C, Advances in Rice Science, New Delhi publishers, New Delhi, 2010, (ISBN 978-81-907421-5-3).

iii) Maiti, R.K., Humberto González Rodríguez, Sarkar, N.C., Advances in tomato technology, New Delhi publishers, New Delhi, 2009 (ISBN 978-81-907-421).

iv) Kandasamy, P., Studies on Farm-Mat drying of Papaya (*Carica papaya*) fruit, LAB LAMBERT Academic Publishing, Saarbrucken, Germany, 2013, ISBN: 978-3-659-37432-6.

v) Swain, K.C., Precision Agriculture Technology Application, LAB LAMBERT Academic Publishing, Saarbrucken, Germany, 2013, ISBN: 978-3-659-47275-6.

c) **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.):** 42

d) **Citation Index — range / average:** 80

e) **SNIP:**

f) **SIR:**

g) **Impact Factor — range / average:** 0-6.91

h) **h-index:** 4-7

23. Details of patents and income generated: No patent obtained.

- 24. Areas of consultancy and income generated:** Faculties provide consultancy to farmers and technical staffs etc. free of charge.
- 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:**
- a) Prof. S. K. Pyne visited Las Vegas and Institute of Los Angeles and Chicago in USA during 21-29th July, 2013.
 - b) Dr. B. Duary visited Cairns, Australia-2011 and Padjadjaran University, Bandung, Indonesia-2013
 - c) Prof. A. K. Barik, Prof. B. K. Saren, Dr. G. C. Malik, Dr. K. Pramanik visited CRIJAF, ICAR Barrckpore, West Bengal in 2012 and 2013.
 - d) Dr. B. Duary visited UAS, Karnataka (2009), TNAU, Tamil Nadu (2009 and 2011), KAU, Kerala (2012), HPKV, Himachal Pradesh (2013).
 - e) Dr. S. K. Maity visited CIMAP, Lucknow (2010), DWR, Karnal, Haryana (2011), CRIDA, ICAR and ICRISAT Hyderabad (2012), CAZRI, ICAR, Rajasthan (2013).
 - f) Dr. K. Pramanik and Dr. (Mrs.) S. Mondal visited CPRI NEH Station, Shillong (2013).
 - g) Prof. G.K. Ghosh and Dr. P. K. Biswas visited NIRJAFT, Kolkata (2013).
 - h) Dr. Y.V.Rao visited Andhra University, Visakhapatnam, Devi Ahalyabai Visva Vidyalaya, Indore, National Institute of Nutrition, Hyderabad
- 26. Faculty serving in**
- a) National committees:**

Prof. A.K. Chatterjee –

 - i) External member of the Faculty Council of B.C.K.V., West Bengal.

Prof. B.K. Saren –

 - i) External Expert Member of Assessment Committee for promotion of Technical Posts by ASRB, ICAR, New Delhi

Dr. B. Duary –

 - i) Member of the executive committee of the Crop and Weed Science Society.
 - ii) Councilor (West Bengal) of India Society of Weed Science.
 - iii) Councilor (West Bengal) of India Society of Agronomy.
 - b) International committees:**
 - c) Editorial Boards:**

Dr. N. C. Sarkar –

 - i) Managing Editor, *International Journal of Bio-resource and Management*.

Dr. B. Duary –

 - i) Member of the Editorial Board, Indian Journal of Weed Science.

d) Any other (please specify):

Dr. B. Duary –

- i) Resource Person of ICAR in 2010 and 2011 for presenting the network activities (Transfer of Technology) of 22 AICRP-Weed Control centres.

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

NAME OF THE FACULTIES	PROGRAMME(S) ATTENDED	DURATION	ORGANISED BY
Dr. B. Duary and Dr. G. C. Malik	UGC sponsored 15 th Refresher Course on Environmental Science, 2009	21 days	UGC Academic Staff College, Burdwan
Dr. M. Banerjee	UGC sponsored 18 th Refresher Course on Environmental Science, 2011	21 days	UGC Academic Staff College, Burdwan
	UGC sponsored 71 st Orientation Course 2010	28 days	UGC Academic Staff College, Burdwan
Dr. Y. V. Rao	UGC sponsored 4 th Refresher Course in Life Sciences, Nov. 3 – 23, 2012	21 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
	UGC sponsored 78 th Orientation Program, Jan.11 – Feb.7, 2011	28 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. S. K. Maity	UGC sponsored Refresher Course Agricultural Science, 2011	21 days	BHU, Varanasi, UP
	ICAR short course on Participatory Research Appraisal at Karnal, 2011	10 days	DWR, Karnal, Haryana
	ICAR short course on Research Methodology, 2012	10 days	CRIDA, Hyderabad, AP
	ICAR short course on Research Methodology, 2013	10 days	CAZRI, Jodhpur, Rajasthan
Dr. K.	UGC sponsored Refresher 18 th	21 days	UGC-Academic

Pramanik	Course on Environmental Science		Staff college, University of Burdwan, Burdwan.
	UGC sponsored 70th Orientation Course during 16th May-12 th June, 2009	28 days	UGC-Academic Staff college, University of Burdwan, Burdwan
Dr. D. Panda	UGC sponsored 6 th Refresher Course on computer study on 29 th Jan-18 th Feb,2009	21 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
	UGC sponsored 70th Orientation Course during 16th May-12 th June, 2009	28 days	UGC-Academic Staff college, University of Burdwan, Burdwan.
Dr. G. C. Malik	National Training on Advances in Weed Management, 2013	10 days	DWSR (ICAR), Jabalpur

28. Student projects:

- a) **percentage of students who have done in-house projects including interdepartmental projects:** 100% of PG students do in-house projects including interdepartmental projects in the form of dissertation work.
- b) **percentage of students doing projects in collaboration with other universities / industry / institute:** 60 % of Ph. D. students do projects in collaboration with other universities / institute.

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

a) Faculty:

- i) Prof. D. C. Ghosh was recognized as Fellow of West Bengal Academy of Science & Technology
- ii) Prof. S. K. Pyne is recognized as Paul Harris Fellow, USA in connection with his association with the activities of Rotary International.
- iii) Dr. B. Duary- Recognition award 2011 by DWSR, ICAR for successful completion of NIWS project –Ministry of Agriculture and Cooperation, Govt. of India.

- iv) Dr. B. Duary- Bharat Siksha Ratan Award (2010) from Global Society for Health and Educational Growth, New Delhi for excellence in chosen field of activity.
- v) Dr. Y. V. Rao received Fellow Award from Society of Applied Biotechnology (SAB) 2012.

Young Scientist -3

- i) Dr. B. Duary-- Young Scientist Award-2009 by Crop and Weed Science Society.
- ii) Dr. K. Pramanik –Young Scientist Award-2013 by Ratikanta Maiti Foundation.
- iii) Dr. K. Pramanik- Young Scientist Award-2013 by Crop and Weed Science Society.

Best Presentation Awards - 4

- i) Dr. Y. V. Rao received Best Oral Presentation Award in the National Seminar on Agriculture and Biosafety in Changing Scenario, 2014.
- ii) K. Pramanik received best poster presentation under the category of Biodiversity, Forestry and Biogeography in “The First International Conference on Bio-resource and Stress Management”, 2013
- iii) K. Pramanik received best poster under the category of Crop diversification, soil health and sustainable agriculture in “The First International Conference on Bio-resource and Stress Management”, 2013
- iv) Prof. B.K. Saren received best poster under the category of Crop diversification, soil health and sustainable agriculture, Session-III in “The First International Conference on Bio-resource and Stress Management”, 2013
- v) Dr. K.C. Swain received best paper award on “ Potential and Prospectus of Greenhouse Agriculture in India” in 9th National Youth Science Congress, held at Visva-Bharati Santiniketan, 2013.

b) Doctoral / post doctoral fellows:

- i) Dr. K.C. Swain awarded Postdoctoral Fellow at Aarhus University, Denmark in 2009-10.

c) Students:

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

- a) Golden Jubilee Seminar on Advances in Agricultural Research towards Food Security and Environmental Sustenance, 1-3 Sept, 2012 funded by IPNI, NABARD, and some corporate sectors

Outstanding participants: Prof. M. S. Swaminathan, Prof. M. K. Dasgupta; Prof. S. K. Mukhopadhyay; Prof. Aminul Islam, former VC, Dhaka National University and Daffodil International University, Bangladesh; Prof. Sirajul Haque, Dhaka University, Bangladesh, Dr. Swapan Datta, DDG (Crop Science), ICAR, New Delhi; Prof. A. C. Sinha, officiating VC, UBKV, Cooch Behar; Dr. K. Majumder, IPNI; Dr. M. L. Jat, CIMMYT; Dr. A. P. Sharma, CIFRI, Barrackpore; Dr. Soumitra Das, International Zinc Association.

- a) National seminar on “Safe Food for All” 21-23 Feb, 2012 funded by Raja Rammohan Library Foundation, Ministry of Culture, Govt. of India and ICAR and some corporate sectors.

Outstanding participants: Rabindranath Bhattacharyya, Minister in Agriculture, Govt. of West Bengal; Prof. Aminul Islam, former VC, Dhaka National University and Daffodil International University, Bangladesh; Prof. Ashim Chowdhury, Calcutta University; Prof. A. Chakrabarty, WBUAFS, Kolkata; Prof. P. Halder, Visva-Bharati; Prof. A. Zaman, BCKV, Kalyani; Prof. P. K. Sahoo, BCKV, Kalyani

- b) National seminar on “Agriculture and Bio-security in Changing Scienario”, 1-3 Feb, 2013. Funded by NABARD, University Grant, ICAR and some corporate sectors

Outstanding participants: Prof. D. Dasgupta, ex-VC, BCKV, Kalyani; Prof. (Mrs.) Sabujkali Sen; Prof. K. Sengupta, BCKV, Kalyani; Prof. (Mrs.) Bandana Bose, BHU, Varanasi; Dr. Y. V. Singh, IARI, New Delhi; Dr. P. J. Mishra, OUAT, Bhubaneswar; Prof. I. Bhattacharya, BCKV, Kalyani; Prof. C. S. Chakravarti, VC, WBUAFS, Kolkata and Prof. T. K. Mondal, WBUAFS, Kolkata

31. **Code of ethics for research followed by the departments:** All relevant codes of ethics for research as laid down in University rules are followed.

32. **Student profile programme-wise:**

Name of the Programme (refer to question no. 4)	Application received	Selected		Pass percentage	
		Male	Female	Male	Female
M. Sc (Ag) Agronomy- 2012	117	11	1	9.4	0.9
M. Sc (Ag) Agronomy- 2013	160	13	0	8.1	0.0
M.Sc(Ag) Soil Sci.&Ag.Chem- 2012	48	1	0	2.1	0.0
M.Sc(Ag) Soil	23	3	1	13.0	4.3

Sci.&Ag.Chem-2013					
Ph. D. (2012-13)	52	13	4	25.0	7.7
Ph. D. (2013-14)	53	16	5	30.2	9.4

33. Diversity of students:

Name of the Programme (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
M. Sc(Ag.) Agronomy 2012	60	0	40	0
M. Sc(Ag.) Agronomy 2013	35.7	7.1	58.2	0
M. Sc(Ag) Soil Sc.& Ag.	0	33.3	66.7	0
Ph. D	38.03	22.54	39.44	0

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

Competitive Examinations	No. of students cleared during 2009-2013
ICAR-NET Examination	<ol style="list-style-type: none"> Amal Bera (Agronomy) Mainak Ghosh (Agronomy) Swaha Shee (Agronomy) Wasim Iftikar (Agronomy) Kaushik Mondal (Agronomy) Anita Hansda (Agronomy) M. Mallikarjun (Agronomy) Manas Kumar Mondal (Agronomy)
West Bengal Agricultural Administrative Service	<ol style="list-style-type: none"> Kajal Saha (Agronomy) Abhijit Mondal (Agronomy) Rajesh Saha (Agronomy)
Banking Service	<ol style="list-style-type: none"> Anirban Roy (Agronomy) Shreeparna Saha (Agronomy) Jyotirmoy Mondal (Agronomy) Arnab Datta (Agronomy)
School Services	<ol style="list-style-type: none"> Shekhar Singh Mura (Agronomy)

Examination	2. Subhranath Hens (Agronomy) 3. Sumana Ghosh (Agronomy) 4. Chittapriya Chowdhury (Agronomy) 5. Rupali Dom (Agronomy)
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35. Student progression:**Programme: M. Sc. (Ag.) in Agronomy**

Student progression	Percentage against enrolled			
	2009-10	2010-11	2011-12	2012-13
PG to M.Phil.	0	0	0	0
PG to Ph.D.	37.5	30	20	61.5
Ph.D. to Post-Doctoral	0	0	0	0
Employed				
• Campus selection	50	10	0	0
• Other than campus recruitment	12.5	60	70	30.8
Entrepreneurs	-	-	-	-

Programme: M. Sc. (Ag.) in Soil Science & Ag. Chemistry

Student progression	Percentage against enrolled			
	2009-10	2010-11*	2011-12	2012-13
PG to M.Phil.	0	-	0	0
PG to Ph.D.	50	-	50	50
Ph.D. to Post-Doctoral		-		
Employed				
• Campus selection	0	-	0	0
• Other than campus recruitment	50	-	50	0
Entrepreneurs	0	0	0	50

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	22.7%
from other universities within the State	59.1%
from universities from other States	18.2%
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: 03
38. Present details of departmental infrastructural facilities with regard to

- Library -01 (Includes students' thesis, Department News letter, books)
- Internet facilities for staff and students : Available
- Total number of class rooms : 04
- Class rooms with ICT faculty: 01
- Students laboratories :04
- Research laboratories: 02

39. List of doctoral, post-doctoral students and Research Associates:

- from the host institution/university: 27
- from other institutions/ universities : 43

List of Doctoral students:

SL.NO	NAME OF THE STUDENT	State	Remarks
AGRONOMY			
44.	ABHIJIT MANDAL	WB	Working
45.	ANUPAM MUKHERJEE	WB	Working
46.	BHABANI SANKAR NAYAK	Odisha	Working
47.	DHIMAN SEN	WB	Working
48.	KISHORE CHANDRA SAHOO	Odisha	Working
49.	MALAY KUMAR BHOUMICK	WB	Working
50.	NANGTHOMBAM ANANDO SINGH	Manipur	Working
51.	PRABIR KUMAR SAHA	WB	Working
52.	PRAMILA NAYAK	Odisha	Working
53.	SUSHANTA KUMAR JATA	Odisha	Working
54.	TUSHAR RANJAN MOHANTY	Odisha	Working
55.	ANITA MAHAPATRA	Odisha	Working

56.	ANSHUMAN NAYAK	Odisha	Working
57.	BHABANI SANKAR BISHOYI	Odisha	Working
58.	BISWA RANJAN NAYAK	Odisha	Working
59.	KINGKAR DEYTARAFDER	WB	Working
60.	LOKNATH SHARMA	WB	Working
61.	PADMAJA GUPTA	Jharkharnd	Working
62.	RATIKANTA MAHANTA	Odisha	Working
63.	SUMANA GHOSH	WB	Working
64.	SWAHA SHEE	WB	Working
65.	WAIKHOM JITEN SINGH	Mainipur	Working
66.	AKSHAYA KUMAR SETHY	Odisha	Working
67.	ASIM CHANDRA DASH	Odisha	Working
68.	MANDIRA CHAKRABORTY	Tripura	Working
69.	MD. GIASUDDIN	WB	Working
70.	SAJEEB KUMAR BISWASI	Odisha	Working
71.	SEKHAR SING MURA	WB	Working
72.	SUBHRANATH HENSH	WB	Working
73.	SUROJIT GOPE	WB	Working
74.	TARAMA CHATTERJEE	WB	Working
75.	ASHIM MIDYA	WB	Working
76.	BHABANI SANKAR SATAPATHY	Odisha	Working
77.	SAGARIKA MALIK	WB	Working
78.	SOUVIK DALAL	WB	Working
79.	SOMA MUKHERJEE	WB	Working
80.	SPURTI MONDAL	WB	Working
81.	TANMOY SHANKAR	Jharkhand	Working
82.	M. MALLIKARJUN	AP	Working
83.	AMALESH GHOSH	WB	Working
84.	NAKUL MONDAL	WB	Working
85.	BISWAJIT SAHA	WB	Working
86.	NITYANANDA BAG	WB	Working
SOIL SCIENCE & AGRIL. CHEMISTRY			
21.	ATHOKPAM HARIBHUSAHN	Odisha	Working
22.	PARITOSH PATRA	WB	Working
23.	SIDHARTHA MITRA	WB	Working
24.	JIBANJIT SEN	Odisha	Working
25.	SUMANTA KAR	WB	Working

26.	BIPLAB KUMAR PATI	WB	Working
27.	MD. SOYEB ALI	WB	Working
28.	ABHISEK SAHA	WB	Working
29.	MD. ASIF IQBAL	WB	Working
30.	BIBHUTI BHUSAN BEHERA	Odisha	Working
31.	PRADIPTA BANERJEE	WB	Working
32.	RUPABAKOR C. WARJRI	Odisha	Working
33.	GOBINDA CHANDRA SHAHOO	Odisha	Working
34.	LATA MALIK	Odisha	Working
35.	PRADIPTA MAJHI	WB	Working
36.	CHITTARANJAN SARANGI	WB	Working
37.	SIDHARTHA MALICK	WB	Working
38.	CHINDANANDA SINGH MURA	WB	Working
39.	MONISANKAR BERA	WB	Working
40.	ARUNAVA SAMANTA	WB	Working
21.	MERRINE RAJU	Tamil Nadu	Working
ANIMAL SCIENCE			
1	SUJOY KUMAR SIKDAR	WB	Working
2	GOBINDA HALDER	WB	Working
3	NIRMAL KUMAR TUDU	WB	Working
4	PRATUSH BHASKAR	WB	Working
5	ARUNA CHAKRABORTY	WB	Working
AGRIL. ENGINEERING			
2.	DINESH KUMAR RUSIA	Jharkhand	Working

40. Number of post graduate students getting financial assistance from the university: **06**
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Yes, Approval by BOS and Institute Board
42. Does the department obtain feedback from
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback: Yes, Presented in BOS of the Department
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback: Yes, Presented in BOS of the Department

c. **alumni and employers on the programmes offered and how does the department utilize the feedback:** Yes, Presented in BOS of the Department

43. List the distinguished alumni of the department (maximum 10):

- (a) Prof. G. C. De , Former Principal, PSB, Visva-Bharati
- (b) Prof. G. C. Mishra-OUAT, Bhubaneswar
- (c) Prof. (Mrs) Kamana Madhabi, ANGRAU,AP
- (d) Prof. A. Pratap Kumar Reddi, ANGRAU,AP
- (e) Dr. Alope Kumar Patra, OUAT, Bhubaneswar
- (f) Dr. P. Gobindakrishnan, CPRI, ICAR, Shimla, HP
- (g) Dr. Manoj Kumar Nanda, BCKV, Mohanpur
- (h) Dr. Ram Bilash Mallick, Associate Professor, CU, Kolkata
- (i) Dr. Krishna Gopal Mandal, Senior Scientist, WTC, ICAR, Bhubaneswar
- (j) Prof. Aswini Behera, OUAT, Bhubaneswar

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Dr. Humberto Gonza'lez Rodriguez (UNAL, Mexico) delivered a talk on Forest Management and Forest Products of Mexico in August, 2011 which attended by UG and PG students.

Dr. M. Nedunchezian, Principal Scientist (CTCRI, ICAR) made a presentation on Tuber crops in July, 2013.

45. List the teaching methods adopted by the faculty for different programmes:

Computer/ projector based teaching, field visit, demonstration plots etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

- a) More than 50% of question papers are set by External experts.
- b) Annually the course curriculum is reviewed by BOS of the Department followed by Institute Board constituted of Senior Faculty Members and External Experts.

47. Highlight the participation of students and faculty in extension activities:

Farmers' Scientists Meet, Farmers' training meeting, All India Radio, Television programme etc.

48. Give details of "beyond syllabus scholarly activities" of the department:

- a) **Prof. B. K. Saren –**
 - i) Editor of UMUL a Literary Magazine in Santali
 - ii) Acted as Member of **Selection Committee & Judge, Sahitya Akademi, New Delhi,**
 - iii) Member of Translation Mission, **CIIL, Mysore.**

- iv) Member of West Bengal Santali Akademi upto May.2011.
 - c) **Dr. (Mrs.) M. Banerjee** – NSS Programme Officer, Sriniketan, Visva-Bharati.
- 49. State whether the programme / department is accredited / graded by other agencies? If yes, give details:** Department is recognized by ICAR and UGC.
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**
- a) Release, multiplication and successful establishment of Mexican beetle (*Zygogramma bicolorata*) – an insect bio-agent on noxious weed *Parthenium* (*Parthenium hysterophorus*) in the districts of Birbhum and parts of Burdwan and Bankura.
 - b) Improved weed management technologies in different crops and cropping systems
 - c) Weed management under reduced/zero tillage in rice-yellow sarson, rice-wheat cropping system.
 - d) Agro-technology of hybrid rice production in the lateritic belt of West Bengal
 - e) Agro-technology of baby corn production
 - f) Weed management of rice under different crop establishment methods
 - g) Mulching and other soil conservation technologies in rainfed crops.
 - h) Identification, evaluation and recommendation of competitive local plants for replacement of *Parthenium*.
 - i) Integrated nutrient management in different crops and cropping systems.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department**
- a) Strengths :**
 - i) Faculty members published good quality research article in journal of international and national repute.
 - ii) Nationally and internationally recognized faculty members.
 - iii) Considerable number of students qualifies NET, Banking services and various other competitive examinations of national level.
 - iv) National and regional level seminars/workshops are organized time to time to exchange the knowledge and wisdom.
 - v) Faculty members are capable of handling national and international level collaborative projects.
 - b) Weaknesses :**
 - i) Infrastructural inadequacy
 - ii) Less number of full-time research students due to lack of research infrastructure in farm and laboratory.

- iii) Less number of faculties in comparison to State Agricultural Universities.
- iv) Lack of experimental farm equipped with modern implements and irrigation facility

c) Opportunities

- i) Healthy and friendly environment for the students and faculties.
- ii) To open new PG courses in the disciplines like Agricultural Engineering, Plant Physiology and Animal Science.
- iii) Field work and village visit for firsthand experience
- iv) Updated syllabi and need based course curriculum are obtained from ICAR for developing every aspects.
- v) Collaborative research works within the University and with other institutions of the region.

d) Challenges

- i) To develop more linkage between the Department and Industry
- ii) To make up to date tutorial system and remedial coaching
- iii) To bring national/ international level research projects with adequate infrastructure
- iv) Availability of fund to send faculty member to attend national/international conferences and outreach programmes.
- v) To motivate the Departmental members for on-farm research works

52. Future plans of the Department:

- a) Introduction of M.Sc. Programme in Agricultural Engineering and Poultry Science
- b) Division of ASEPAN Department into three independent departments to improve teaching and learning quality.
- c) Improvement of Laboratory facility of the Department
- d) Effort has been initiated to publish a research journal with national recognition.
- e) Formation of new research oriented centers for the benefit of local farmers.
- f) Establishment of model organic farm has been planned.
- g) Mobile extension service to benefit the farmers at their door step.
- h) Establishment of a seed farm to supply good quality seeds of high yielding varieties of crops to farmers at cheaper cost.
- i) Revitalization programme of Agriculture farm and Dairy and Poultry farm will be initiated shortly.
- j) Research initiative on renewable energy source such as biogas and solar energy and their utilization have been taken.

Evaluative Report of the Department of CIHAB

1. **Name of the Department :** Crop Improvement, Horticulture & Agricultural Botany (CIHAB).
The Department of CIHAB, comprising three distinct disciplines viz. Genetics & Plant Breeding, Horticulture and Agricultural Botany, started functioning from 1989. Since its inception, the department offers various courses on Genetics & Plant Breeding, Horticulture and Agricultural Botany at U. G. level. The P. G. Programme in Horticulture started from the academic session of 1997-98 with an intake capacity of seven students per year. Besides the U. G. and P. G. courses, the faculty members of the department are also actively engaged in guiding students in research work leading to Ph. D. degree and extension activities. The faculty members conducted special classes exclusively for the purpose of JRF and guided final year B.Sc. (Ag.) Honours students for ICAR, JRF.
2. **Year of establishment :** 1989
3. **Is the Department part of a School/Faculty of the university?** The Department is part of the University
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** UG (Interdisciplinary), M.Sc(Ag) Horticulture; Ph.D (Genetics and Plant Breeding) and Ph.D (Horticulture).
5. **Interdisciplinary programmes and departments involved:**
The department is involved in interdisciplinary programmes in UG and PG.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
Although there is no courses in collaboration with other Universities or Institutions, however some of our Ph. D. research work is being conducted in collaboration with different departments of the Institute, other Institute of the University such as Institute of Science (Siksha Bhavana); State Agricultural Universities such as OUA &T (Bhubaneswar), UBKV (Cooch Behar), BCKV (Kalyani); KVKs, Central Agricultural University (Imphal); ICAR Institutes; Indian Institute of Rubber Research and other State level research institute like Pulses and Oilseeds Research Station, Berhampore;

Rice Research Station, Chinsurah etc.

7. **Details of programmes discontinued, if any, with reasons:** No programme has been discontinued.
8. **Examination System:** Semester System
9. **Participation of the department in the courses offered by other departments:** The faculty members participate in the courses offered by other departments in the Institute.
10. **Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) :**

	Sanctioned ⁺	Filled	Actual (including CAS & MPS)
Professor	1	1	2
Associate Professors	3	2	3
Asst. Professors	6	5	4
Others	–	–	–

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

- a) **Name** : Dr. P.S. Munsi
Qualification : Ph.D
Designation : Professor
Specialization : Floriculture, Medicinal and Aromatic plants
No. of Years of Experience : 32
No. of Ph.D./M.Phil. students guided for the last 4 years : 11
- b) **Name** : Dr. P. C. Kole
Qualification : Ph.D
Designation : Professor
Specialization : Plant Breeding
No. of Years of Experience : 21
No. of Ph.D./M.Phil. students guided for the last 4 years : 06(guiding 6)
- c) **Name** : Dr. Snehasish Chakravorty
Qualification : Ph.D
Designation : Associate Professor
Specialization : Olericulture & Floriculture

- No. of Years of Experience** : 18 (including BCKV, Cooch Behar service)
No. of Ph.D./M.Phil. students guided for the last 4 years : 03 (guiding 3)
- d) Name** : Dr. Amitava Paul
Qualification : Ph.D
Designation : Associate Professor
Specialization : Genetics & Plant Breeding
No. of Years of Experience : 15
No. of Ph.D./M.Phil. students guided for the last 4 years : 02 (guiding 5)
- e) Name** : Dr. Goutam Mandal
Qualification : Ph.D
Designation : Associate Professor
Specialization : Horticulture
No. of Years of Experience : 15 (including ICAR service)
No. of Ph.D./M.Phil. students guided for the last 4 years : Yet to be allotted
- f) Name** : Dr. J. Mandal
Qualification : Ph.D
Designation : Assistant Professor (Grade-III)
Specialization : Olericulture
No. of Years of Experience : 12 (including UBKV, Cooch Behar service)
No. of Ph.D./M.Phil. students guided for the last 4 years : 03 (guiding 1)
- g) Name** : Dr. N.R. Chakraborty
Qualification : Ph.D
Designation : Assistant Professor
Specialization : Genetics & Plant Breeding
No. of Years of Experience : 2 ¹/₂
No. of Ph.D./M.Phil. students guided for the last 4 years : 01 (guiding)
- h) Name** : Dr. Prahlad Deb
Qualification : Ph.D
Designation : Assistant Professor
Specialization : Pomology & Post-harvest Technology
No. of Years of Experience : 04 (including other service)

No. of Ph.D./M.Phil. students

guided for the last 4 years : Nil

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

List of senior Visiting Fellows, adjunct faculty, emeritus professors- Prof. T. K. Bose; Dr. D. Mukherjee; Prof P.K. Chattapadhyay; Prof. T.K. Chattapadhyay; Prof. P. K. Das; Prof. S. N. Ghosh, Prof. A. K. Chakraborty; Prof. D. K. De; Prof. P. K. Mahapatra; Prof. Tapas Dasgupta, Dr. S. J. Jambulkar, Dr. Prasun K. Mukherjee and others.

13. Percentage of classes taken by temporary faculty — programme-wise:

Name of the faculty	Duration of teaching	Courses taught	Approximate percentage of classes taken against the courses
Dr. Prahlad Deb	06.11.2011 to 25.11.2012	Different UG and PG (M.Sc.) courses	UG Courses: 35% PG Courses: 35%

14. Programme-wise Student Teacher Ratio : PG=27:1**15. Number of academic support staff (technical) and administrative staff sanctioned, filled and actual:**

Sl. No.	Name	Designation	Category
1.	Vacant	Senior Laboratory Attendant	-----
2.	Vacant	Laboratory Attendant (Attached to Horticulture)	-----
3.	Vacant	Laboratory Attendant (Attached to Genetics & Plant Breeding)	-----
4.	Pradip Sarkar	Junior Laboratory Attendant	General
5.	Surajit Dalui	Mali (Attached for duty at Assistant Accounts Office, Sriniketan)	Schedule Caste
6.	Gouranga Das	Mali	Schedule Caste

Non-Teaching staff of Horticulture Farm:

Name	Designation
<i>Vacant</i>	<i>Horticulture Overseer</i>
Sri Ajit Kumar Bauri	Mali
Sri Ram Charan Kisku	Mali

Sri Nabin Soren	Mali
Smt. Rashida Bibi	Mali
Sri Dulal Turi	Mali
Sri Sisujit Mali	Mali
SK. Abul Hassan	Mali (Ad hoc)
Two vacant post	Mali

16. Research thrust areas as recognized by major funding agencies:

- Organic farming in different horticultural crops including medicinal & aromatic plants
- Post-harvest management of fruits and vegetables
- Yield and quality improvement of cereals, pulses, oilseeds and vegetables.

17. Number of faculty with ongoing projects from a) national b) international agencies and c) Total grants received. Give the names of the project title and grants received project-wise:

Name of Faculty	Title of the project	Funding agency	Total grant
Prof. P.S. Munsu	Cultivation of citronella and palmarosa in the farmers fields under the scheme "Introduction of new technology and concept of Horticulture"	National Horticulture Board	Rs. 6,82,200/-
	Assessment of efficiency of EL++ in increasing marketable yield of selected cucurbitaceous vegetable crops	Krishi Rasayan Pvt. Ltd. Kolkata	Rs. 37,400/-
	Assessment of efficiency of EL++ in increasing marketable yield of mango	Krishi Rasayan Pvt. Ltd. Kolkata	Rs. 39,600/-
	Effect of vermicompost on integrated nutrient management of root vegetable crops in red and lateritic soil zones	Food processing and Horticulture, Govt. of West Bengal	Rs.2,34,700/-
	Assessment of EL ++ in increasing marketable yield of selected vegetable crops	Krishi Rasayan Pvt. Ltd. Kolkata	Rs. 40,000/-

	Establishment of model nursery for medicinal plants	National Mission on Medicinal Plants, Govt., of India.	Rs.4,00,000/-
	Collaborative trial programme for slow releasing micronutrients.	Coromandel International Ltd.	Rs. 38,500/-
Dr. J. S. Bhat	Collaborative research programme for evaluation of cucumber, egg plant and okra hybrids	Seminis Vegetable Seeds (India) Pvt. Ltd. (Completed in 2009)	Rs. 56,100/-
Dr. Prahlad Deb	Effect of irradiation and packaging on sapota fruits (<i>Achrus zapota</i> L.) under different storage condition	Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India	Rs.24,85,500/-
Dr. A. Paul Dr. N. R. Chakraborty	Genetic improvement of sesame through induced mutation	Bhabha Atomic Research Centre, Department of Atomic Energy, Govt. of India	Rs.19,74,900/- (sanctioned)
Dr. Goutam Mandal Dr. Ranjan Nath Dr. Kalipada Pramanik Dr. Swarnali Bhattacharya	Bio-Efficacy Studies of Some New Generation Molecules (PGR) on different crops.	Willowood Chemicals Private Ltd., New Delhi-110025	Rs. 2.9 lakh

18. Inter-institutional collaborative projects and associated grants

- | | | |
|---|--------------------------------|-----------------|
| a) National collaboration | b) International collaboration | |
| i) National Horticulture Board : | | Rs 6.82 lakh |
| ii) Food Processing and Horticulture, Govt. Of West Bengal: | | Rs. 2.35 lakh |
| iii) Krishi Rasayan Pvt. Ltd.: | | Rs. 1.2 lakh |
| iv) National Mission on Medicinal Plants | | Rs. 4.0 lakh |
| v) BARC, Trombay, Mumbai : | | Rs. 44.604 lakh |
| vi) Ministry of Agriculture, Govt. of India | | Rs. 1.66 cr. |

- vii) Navabharat Agro Product Ltd., Hyderabad Rs.23.5 lakh
viii) Deptt. Of Horticulture, Andhra Pradesh Rs. 31 lakh
19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, AICTE, etc.; total grants received:** As mentioned in item no. 17 & 18
20. **Research facility / centre with**
a) **state recognition :** Nil
b) **national recognition:** Plant Tissue Analysis Facility (National Horticulture Mission).
c) **international recognition:** Nil
21. **Special research laboratories sponsored by / created by industry or corporate bodies:** Such system is not operational in the Bhavana.
22. **Publications:**
a) **No. of papers published in peer reviewed journals:** 82
b) **Monographs:**
c) **Chapters in Books:** 17
d) **Edited Books: 10** (10 Volumes of *Dictionary of Horticulture*, Late Prof. D. Sanyal of the department being one of the editors; Publisher: Naya Udyog, Kolkata)
e) **Books with ISBN with details of publishers: 01**
Chakrabarty, S, Roy Chowdhury, N and Munsii, P. S. (2010). Studies on Post Harvest handling of Gerbera, Gladiolus and Tuberose, LAB LAMBERT Academic Publishing, Saarbrucken, Germany, ISBN: 978-3-8383-8495-5
c) **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.): 22**
d) **Citation Index — range / average:**
e) **SNIP:**
f) **SIR:**
g) **Impact Factor — range / average:**
h) **h-index:**
23. **Details of patents and income generated:** Patent for product/process is yet to be explored. However, so far income generation is concerned Rs. 1.20lakh has been generated during last four years from mango orchard.
24. **Areas of consultancy and income generated:**
a) Free consultancy to the farmers of the adjoining area
b) Free career counseling and guidance to the students for ICAR-Junior Research

Fellowship Examination, ICAR-Senior Research Fellowship Examination, ICAR-NET Examination and various other competitive examinations .

- c) Faculties of the Department take part in farmers' training, entrepreneurship development training, radio talk etc.

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

- a) Prof. P. S. Munki visited Wageningen University & Research Centre/Applied Research at Lisse, Dee Ree(Lisserbroek), Maas & Van Steijn (Hillegom), Paauw Lelies BV(Rijnsburg) and Keukekenhof. in the Netherland. He also visited International Flower Auction Centre, Alsmier in 2008.
- b) Prof. Munki also visited Universitat Politècnica de Catalunya and different Private nurseries, compost factories nearby Bercelona,Spain in 2011.
- c) Dr. S. Chakravorty visited Bangladesh Agricultural University, Mymensingh, Bangladesh, 2012.
- d) Dr. Prahlad Deb visited University Ruhuna, Mapalana, Srilanka in 2013.

26. Faculty serving in

a) National committees:

Prof. P. S. Munki –

- i) External member of Ph.D. committee in Horticulture, University of Calcutta.
- ii) Member (Executive/Committee of scientific societies & organization like NHB).
- iii) Member, Executive Council of B. C. K. V. as Governor's Nominee (2008-2012)
- iv) Expert member for designing Applied Oriented Course. in Horticulture, IGNOU, New Delhi and also contributed two units (Fruit Crops and Medicinal Plants)
- v) External member, Academic Committee for the Faculty of Horticulture, B.C.K.V.
- vi) Member of Academic bodies/Selection committee of several Universities in India.
- vii) Member, Selection Committee for Fruit Science Department of U.B.K.V. as Governor's Nominee.
- viii) Guest faculty of Calcutta University for last 30 years
- ix) External expert for selection of project proposal on technical programme meeting of BARC, Trombay at BCKV, West Bengal in 2013.
- x) Vice-President, The Agriculture Society of India, Kolkata

b) International committees:**Prof. P. S. Munsii –**

- i) Member of Selection committee in Bangladesh Agricultural University.
- ii) Maintaining interactions & exchange of views with scientists (International level) acquainted during visit to abroad (Japan, Italy, USA etc.) time to time

Dr. Prahlad Deb –

- i) Founder Member, International Society for Minor Fruits & Medicinal Plants, Sri Lanka

c) Editorial Boards:**Prof. P. S. Munsii –**

- i) Acted as an executive member in the council of National Societies and in their Editorial Board
- ii) Member (of editorial board) as well as referees of various journals of reputation
- iii) Member, Editorial Board, Annual Report, Visva-Bharati.
- iv) Reviewer, Manual for High-tech Horticulture published from University of Calcutta
- v) Reviewer, Technical Manual on High-tech Vegetable Cultivation for uniform economic return (University of Calcutta)

d) Any other (please specify):**Prof. P. S. Munsii –**

- i) Life member of nine learned bodies including International Society of Horticultural Sciences.
- ii) National level collaborations have been made with different Universities (like C.A.U. Imphal; O.U.A.T. Bhubaneswer; Calcutta University; Jadavpur University; B.C.K.V., Kerala Agricultural University and Central Govt. Institutions like IIT Kharagpur, ICAR Ranchi etc.) to promote meaningful linkage in research activities as a faculty member of a Central University like Visva Bharati.

Prof. P. C. Kole –

- i) Prof. P. C. Kole acted as reviewer for five foreign journals
- ii) Life member of four professional societies

Dr. J. Mondal –

- i) Dr.J.Mondal acted as reviewer for one national and one international journal
- ii) Life member of six scientific societies
- iii) National level collaborations have been made with different Universities

(like C.A.U. Imphal; Calcutta University; ICAR Ranchi etc.) to promote meaningful linkage in research activities as a faculty member of a Central University like Visva Bharati.

- iv) Guest faculty of Calcutta University for last 3 years

Dr. N. R. Chakraborty –

- i) Dr. N.R.Chakraborty acted as reviewer for one Foreign journal

Dr. Amitava Paul –

- i) Dr. Amitava Paul acted as reviewer for two national level journals
ii) Life member of three scientific societies

Dr. Goutam Mondal –

- i) Dr. Goutam Mondal acted as reviewer three national level journals
ii) Life member of six scientific societies

Dr. Snehasish Chakraborty –

- i) Dr. Snehasish Chakraborty acted as reviewer for one national level journal
ii) Life member of three scientific societies

Dr. Prahlad Deb –

- i) Life member of five scientific societies

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

- a) Dr. A. Paul: Participated in ICAR sponsored **Winter School** on “Molecular Breeding and Marker Assisted Selection in Rice Improvement” at Central Rice Research Institute, Cuttack, from 1st Nov’2011-21st Nov’2011.
- b) Dr. N.R.Chakraborty: Participated UGC sponsored 88th **Orientation Programme** (28 days) at UGC Academic Staff College, The University of Burdwan and obtained “**Grade- A**” during October- November 2012.
- c) Dr. J. Mondal participated in –
- i) UGC sponsored 18th Refreshers course in “Environmental Science” at ASC - University of Burdwan, West Bengal (20th November to 10th December, 2010)
- ii) ICAR sponsored Summer school on “Horticulture Based Crop Diversification Options for Livelihood Security in Tribal Areas” at ICAR Research Complex for Eastern Region, Research Centre, Plandu Ranchi, Jharkhand (21st May to 10th June, 2013).
- d) Dr. Snehasish Chakraborty participated in –
- i) UGC sponsored 17th Refreshers course in “Environmental Science” at ASC - The University of Burdwan, West Bengal (from 22nd August to 11th Sept’2009)
- ii) UGC sponsored Refreshers course in “Environmental Studies” at ASC - The

University of Calcutta, West Bengal (from 8-27 Feb'2010)

- e) Dr. Prahlad Deb participated in –
National Workshop on “Botanical Identification and Evaluation of Indian Medicinal Plants”, School of Natural Product Studies, Jadavpur University, Kolkata (from 20 -26th November, 2013)

28. Student projects:

- a) **percentage of students who have done in-house projects including interdepartmental projects:** (100%), All post graduate students do projects in form of dissertation/thesis.
- b) **percentage of students doing projects in collaboration with other universities / industry / institute:** Many of our Ph. D. Research projects (around 60%) are done in collaboration with other universities/institutes.

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

- a) **Faculty:**
Prof. P.S. Muni –
i) ‘Shiksha Ratan Puraskar’ (2010) by India International Friendship Society, New Delhi
ii) Fellow of the Indian Association of Biological Sciences (in Horticulture)
iii) Selected for award of Rashtrya Vidyan Award 2014 by Foundation for accelerated community empowerment (FACE), Delhi.
- b) **Doctoral / post doctoral fellows:** Nil
- c) **Students:** Nil

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

- a) Prof. P. S. Muni acted as one of the joint chair-persons of National seminar on ‘*Recent Advances in Rice Genomics and Biotechnology*’ organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.
- b) Dr. Amitava Paul acted as Joint convener of National seminar on ‘*Recent Advances in Rice Genomics and Biotechnology*’ organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.
- c) Dr. N.R.Chakraborty: Acted as Organizing Secretary of National seminar on ‘*Recent Advances in Rice Genomics and Biotechnology*’ organized jointly by the Department of Biotechnology and Palli Siksha Bhavana held at Siksha-Bhavana (Institute of Science), Visva-Bharati, Santiniketan, during March 23 & 24, 2013.

31. Code of ethics for research followed by the departments:

All relevant code of ethics of research as laid down in the University rules have been followed

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
M.Sc.(Ag).Horticulture 2012	78	1	2	1.3	2.6
M.Sc.(Ag).Horticulture 2013	63	3	5	4.8	7.9
Ph.D(Horticulture) 2012	12	1	1	8.3	8.3
Ph.D(Horticulture) 2013	16	3	1	18.8	6.3
Ph.D (Genetics and Plant Breeding) 2012	9	2	2	22.2	22.2
Ph.D (Genetics and Plant Breeding) 2013	9	3	0	33.3	0.0

33. Diversity of students:

Name of the Programme (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
M.Sc(Ag)Horticulture	0	0	100%	0
Ph.D (Horticulture)	33.33%	16.67%	50%	0
Ph.D (Genetics and Plant)	0	83.33%	16.67%	0

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

- a) NET – 01 in 2013
- b) Banking Service – 03

35. Student progression:

Student progression	Percentage against enrolled			
	2009-10	2010-11	2011-12	2012-13
UG to PG				
PG to M.Phil.				
PG to Ph.D.	33.3	28.6	0	20
Ph.D. to Post-Doctoral				
Employed				
• Campus selection	33.3	0	0	0
• Other than campus recruitment	33.3	71.4	100	40
Entrepreneurs				

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	75%
from other universities within the State	25%
from universities from other States	Nil
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: Nil**38. Present details of departmental infrastructural facilities with regard to**

- Library:** Departmental library is under consideration but due to acute shortage of space, it is not yet constructed.
- Internet facilities for staff and students:** available.
- Total number of class rooms:** 02
- Class rooms with ICT facility:** 01
- Students' laboratories:** 01
- Research laboratories:** 01

39. List of doctoral, post-doctoral students and Research Associates:

- from the host institution/university:**
- from other institutions/ universities :**

Sl. No.	Name of the Ph.D students	State	Remarks

1.	Kaberi Moharana	Odisha	Working
2.	Nilesh Bhowmick	West Bengal	Working
3.	Sahanur Rahaman	West Bengal	Working
4.	B.V.G. Prasad	Andhra Pradesh	Working
5.	S. S. Singh	Manipur	Working
6.	Rincy K. Abraham	Kerala	Working
7.	Saudamini Swain	Odisha	Working
8.	Himadri Sekhar Das	WB	Working
9.	Bibhuti Bhusan Sahoo	Odisha	Working
10.	G. P. Rao	Kerala	Working
11.	Sandip Dutta	WB	Working
12.	Sanjeev K. Singh	Jharkhand	Working
13.	Dudhane Abhijeet Sarjerao	Maharashtra	Working
14.	Indrajit Sarkar	WB	Thesis submitted
15.	Vilas D. Gasti	AP	Working
16.	Sukanta Kumar Sahoo	Odisha	Working
17.	Brijesh Pandey	Bihar	Working
18.	Amitava Panda	Odisha	Working
19.	Suman Mukherjee	WB	Working
20.	Lourembam Promin	Manipur	Awarded
21.	Md. Banaz Alam	WB	Working
22.	Himal Pokhrel	Sikim	Working
23.	Naorem Brajendra Singh	Manipur	Thesis submitted
24.	Sanghamitra Pattanaik	Odisha	Thesis submitted
25..	Juhie Konal Marak	Meghalaya	Working
26.	Chinanshuk Ghosh	WB	Thesis submitted
27.	N. Montessori Devi	Manipur	Thesis submitted
28.	Kh. Swarnalata Devi	Manipur	Thesis submitted
29.	Vinod Kumar Dhangra	UP	Working
30.	Ranjan Kumar Singh	Bihar	Working
31.	Sarnam Singh (Gn)	Gujrat	Working

32.	Prabhat Kumar Karak	West Bengal	Awarded
33.	Partha Sarathi Medda	West Bengal	Awarded

- 40. Number of post graduate students getting financial assistance from the university: 02**
- 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:** Yes, BOS followed by Institute Board.
- 42. Does the department obtain feedback from**
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback:** Yes, syllabi are revised accordingly.
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback:** Yes, accordingly remedial measures are taken.
 - alumni and employers on the programmes offered and how does the department utilize the feedback:** No.
- 43. List the distinguished alumni of the department (maximum 10):**
- Dr. S. R. Dhua; Principal Scientist and Head, Germplasm Evaluation Division, CRRI, Cuttack.
 - Dr. A.K. Mondal, Former Director, Tropical Institute of Forest Research, Jabbalpur.
 - Dr. G. C. Debnath; Director, Regional Meteorological Centre, Alipore, Kolkata
 - Dr. Krishna Ganguly, Principal scientist, NBPGR, New Delhi
 - Dr. A.K. Shit, Sr. Scientist, CPCRI, Mohitnagar
 - Dr. Sujay Rakshit, Principal Scientist, DSR, Hyderabad.
 - Prof. S. C. Ghosh; Prof. of Biotechnology, IIT, Kharagpur
 - Dr. K. M. Hasib, Asstt. Professor of Botany, Burdwan University.
 - Dr.(Mrs.) Mariam Anal; Asstt. Prof., Horticulture; CAU, Imphal.
 - Dr. (Mrs.) Heisnam Nanita Devi, Asstt. Prof., Genetics and Plant Breeding, CAU, Imphal.
 - Mr. Vinod Kumar Dhanra, Asstt. Prof., Horticulture, Sri. Megh Singh College, Agra, U.P.
- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:** Special lectures are arranged time to time. PG & Ph.D. students participate in the seminars, workshops.
- 45. List the teaching methods adopted by the faculty for different programmes:**
Both for MA and Ph.D coursework-

- a) Lecture by the use of black board / white board
 - b) Lecture by power point presentation
 - c) Demonstration by graphs, charts and photos
 - d) Laboratory and Field practical
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:** By organizing student teacher meeting/ interaction time to time.
- 47. Highlight the participation of students and faculty in extension activities:**
- a) Field Extension work through Rural Agricultural Work Experience (RAWE) and Experiential Learning
 - b) Conducting field experiments for PG and Ph.D research at farmers' field
 - c) Organizing farmers-scientists meet
 - d) Our faculties are regularly invited to participate in different farmers' training programmes and training programmes of extension officers organized by Rathindra Krishi Vignan Kendra, Agricultural Departments of Govt. of W.B., different NGOs such Manab Jamin, Rama Krishna Mission and corporate bodies such as IFFCO etc.
- 48. Give details of "beyond syllabus scholarly activities" of the department:**
- a) Serving in editorial board of journals and reviewers of other national and international research journals.
 - b) Delivering invited lecture in seminar and symposium time to time.
 - c) Need based consultancy to local growers / farmers.
- 49. State whether the programme / department is accredited / graded by other agencies? If yes, give details:** ICAR
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**
- Department updates its programme to include the recent research interests in the curricula from time to time. This helps the department to train the student in such a way that the student can feel comfortable when they join their work after finishing the studies. Credit based semester system has been incorporated for UG, PG, & Ph.D. students in order to make the course registration system more flexible. It periodically updates its syllabi according to UGC & ICAR guidelines to incorporate emerging trends of the respective subjects.
- Studies on agro-botanical characters of different vegetables, flowers and other crops (cereals, pulses and oilseeds) are going on which will help identify suitable genotype(s) for direct use as variety and/ or indirect use in cross-breeding programme

for utilization of heterosis effect in F_1 generation or isolation of promising segregants in advanced generation of breeding. Work on breeding for stress resistance/tolerance of taro and sweet potato has led to identification of resistant/ tolerant lines for use by growers. Gene for resistance to gall midge in rice has been identified through RAPD markers which will help in molecular breeding of rice. Breeding for increasing physiological efficiency of sesame will help in changing the physiological rhythm of sesame with efficient plant type for rice based cropping system, 'On Farm' trials on improved agro-techniques on fruit, vegetable and aromatic crops are going on as method as well as result demonstrations to the growers. Some improved techniques for vegetative propagation of some fruit crops have been developed. Integrated Nutrient Management for some fruits, vegetables, flowers and medicinal plants have been standardized. Trials on organic farming and post harvest management of different horticultural crops are going on. Facility has been created for Hi-tech. Horticulture with special reference to micro-irrigation, polyhouses etc.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

a) Strengths :

- i) Well and highly qualified reputed faculty members
- ii) Faculty members publish good quality research articles in journal of national and international repute.
- iii) Sound and healthy 'teacher-student' relationship.
- iv) Post Graduate courses are offered in three major fields i.e. M.Sc. (Ag.) Horticulture in (a) Fruit Science, (b) Vegetable Science and (c) Floriculture & Landscape Architecture.
- v) Considerable no. of students qualifies in NET, banking and various other competitive examinations.
- vi) Dissemination of technology for production of major cereal crops like rice, wheat and pulses; and major horticultural crops (fruits, vegetables, flowers including medicinal plants) to the farmers of the local adjoining area of Birbhum district.

b) Weaknesses:

- i) Lack of sufficient space, non-academic staff; Infrastructural inadequacy
- ii) No M.Sc. programme in Genetics and Plant Breeding owing to lack of sufficient staff
- iii) No departmental library with modern ICT facility.
- iv) Lack of adequate laboratory facilities with well equipped modern scientific instruments to carry out the research work

- v) Lack of sufficient training and placement facilities for the students pursuing M.Sc. and Ph.D.

c) Opportunities:

- i) Consistent healthy environment & cooperation among faculty and students.
- ii) Students have the opportunity for higher studies after P.G.
- iii) Up to date syllabi catering to the latest needs and standards.
- iv) Ample scope for special lectures & invited lectures for knowledge enhancement.
- v) Considerable scope for quality and quantitative improvements of various field and horticulture crops important in red and lateritic belt.

d) Challenges:

- i) To provide more conducive scientific environment to faculty and students to carry out research works.
- ii) To admit more no. of quality students from other states & abroad
- iii) To motivate more students towards higher study and research
- iv) Modernization of laboratory and horticultural farm.
- v) To develop more linkage with other Institutes/Universities.

52. Future plans of the department:

- a) Opening up M.Sc. programmes in Genetics and Plant Breeding and set up two separate departments like 'Deptt. of Horticulture' and 'Deptt. of Genetics and Plant Breeding' to maintain parity at national and international level.
- b) Development of well equipped modern laboratory to carry out research work related to Genetics and Plant Breeding and Horticulture.
- c) Creation of new space for state of the art classrooms, seminar rooms & faculty rooms.
- d) Up-gradation of existing infrastructure to maintain high standard of quality teaching and research.
- e) Collaborative research, exchange of faculty members with other Institutes and Universities at national and international level rooms.
- f) Up-gradation of existing infrastructure to maintain high standard of quality teaching and research.

Evaluative Report of the Department of EES

- 1. Name of the Department :** The Department of Agricultural Extension, Agricultural Economics and Agricultural Statistics (EES).

The Department of Agricultural Extension, Agricultural Economics and Agricultural Statistics (EES) is one of the four departments of the Institute of Agriculture (Palli Siksha Bhavana,PSB). It was created in the year 1989. The activities of the department comprises of all the three important activities viz. teaching, research and extension. The department offers Master degree programme in the subject of Agricultural Extension and Ph.D. programme in the areas of Agril. Extension, Agril.Economics and Agril. Statistics. Agricultural Economics and Agricultural Statistics divisions of the department also cater the need of minor and supporting courses related to Economics and Statistics in various M.Sc.(Ag.) Programmes of other departments of the Bhavana.

The faculty members of the department are actively engaged in guiding research scholars leading to Ph.D degree in component disciplines of the department. Presently, most of the faculty members of the department are also involved in innovative research work by undertaking various projects in collaboration with national and international institutes. Many of such projects are of multi-disciplinary and multi-institutional in nature. The department is performing commendable work in rural extension activities, catering the training needs of farmers, farm-women and rural youths of this region following the ideas of Gurudeva Rabindranath Tagore and L. K. Elmhirst. The Department also imparts training to students, scientists, extension personnel and other Govt. Officials through the Rural Agricultural Work Experience (RAWEX) programme, Farmers-Scientists meeting cum Village Camps are organised every year to get acquainted with the farmers' problems and help them find a solution.

- 2. Year of establishment :** 1989
- 3. Is the Department part of a School/Faculty of the university?** Yes, Institute of Agriculture
- 4. Names of programmes offered (UG, PG, M.Phil., Ph.D., integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :** UG (interdisciplinary), PG (in Ag. Extension) and Ph.D.(in Ag. Economics, Ag. Extension and Ag. Statistics under course work

based system guided by the UGC's New Regulations)

5. Interdisciplinary programmes and departments involved :

- a) B.Sc. (Ag.) Honours
- b) M. Sc. (Ag. Extension)
- c) Ph. D. (Ag. Extension)
- d) Ph. D. (Ag. Economics)
- e) Ph. D. (Ag. Statistics)

6. Courses in collaboration with other universities, industries, foreign institutions, etc.: Nil

7. Details of programmes discontinued, if any, with reasons: We have no such programme.

8. Examination System: Credit Based Semester System

i) Participation of the department in the courses offered by other departments:
Faculties are taking classes such as Tagore Studies, environment science.

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	2	2	4 (2 Substantive posts, 3 under CAS)
Associate Professors	4	3	1 (2 have been promoted under CAS)
Asst. Professors	8	5	5
Others	–	–	–

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

- a) **Name** : Prof. Sarthak Chowdhury
- Qualification** : M.Sc. (Ag.) In Ag. Extension, Ph.D. in Ag. Extension
- Designation** : Professor (Under CAS)
- Specialization** : Agril. Extension
- No. of Years of Experience** : 17 years at Visva-Bharati & 7 years at BHU
- No. of Ph.D./M.Phil. students guided for the last 4 years** : 09

- b) **Name** : Prof. Debasis Bhattacharya
Qualification : M.Sc. in Statistics, Ph.D. in Statistics
Designation : Professor (Substantive Post)
Specialization : Statistical Inference, Applied Statistics
No. of Years of Experience : 24
No. of Ph.D./M.Phil. students guided for the last 4 years : 04
- c) **Name** : Prof. Souvik Ghosh
Qualification : M.Sc. in Dairy Extension, Ph.D. in Ag. Extension
Designation : Professor (Substantive Post)
Specialization : Agril. Extension
No. of Years of Experience : 3 months at Visva Bharati & 13 years at ICAR
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil
- d) **Name** : Prof. Bidhan Chandra Roy
Qualification : M.Sc. (Ag.) in Agril. Economics, Ph.D. in Agril. Economics
Designation : Professor (Under CAS)
Specialization : Agricultural Economics
No. of Years of Experience : 9 years at Visva-Bharati & 8 years at ICAR
No. of Ph.D./M.Phil. students guided for the last 4 years : 05
- e) **Name** : Dr. Debashis Sarkar
Qualification : M.Sc. (Ag.) in Agril. Economics, Ph.D. in Agril. Economics
Designation : Associate Professor (Substantive Post)
Specialization : Agril. Finance and Agril. Marketing
No. of Years of Experience : 11
No. of Ph.D./M.Phil. students guided for the last 4 years : 02
- f) **Name** : Dr. Siddhartha Dev Mukhopadhyay
Qualification : M.Sc. (Ag.) In Ag. Extension, Ph.D. in Ag. Extension
Designation : Assistant Professor (stage II)
Specialization : Constraints Analysis, Project Management,

- Communication-Diffusion-Adoption, Content Analyses
- No. of Years of Experience** : 18
- No. of Ph.D./M.Phil. students guided for the last 4 years** : 02
- g) **Name** : Dr. (Mrs.) Anindita Saha
- Qualification** : M.Sc. in Dairy Extension, Ph.D. in Agril. Extension
- Designation** : Assistant Professor (stage II)
- Specialization** : Knowledge Information system, Indigenous Knowledge system
- No. of Years of Experience** : 09
- No. of Ph.D./M.Phil. students guided for the last 4 years** : 06
- h) **Name** : Dr. Digvijay Singh Dhakre
- Qualification** : M. Sc. in (Statistics), Ph. D in (statistics)
- Designation** : Assistant Professor
- Specialization** : Statistics
- No. of Years of Experience** : 1 year 9 months
- No. of Ph.D./M.Phil. students guided for the last 4 years** : Nil
- i) **Name** : Mr. Bitan Mondal
- Qualification** : M.Sc. in Dairy Economics
- Designation** : Assistant Professor
- Specialization** : Agricultural Economics/ Dairy Economics
- No. of Years of Experience** : 01
- No. of Ph.D./M.Phil. students guided for the last 4 years** : Nil
- j) **Name** : Dr. Sumit Kumar Sori
- Qualification** : M.Sc. (Ag.) in Agril. Economics, Ph.D. in Agril. Economics
- Designation** : Assistant Professor
- Specialization** : Agricultural Economics
- No. of Years of Experience** : 6 months
- No. of Ph.D./M.Phil. students guided for the last 4 years** : Nil

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors:** No adjunct faculty, emeritus professors and visiting faculty during this period.
13. **Percentage of classes taken by temporary faculty — programme-wise:** There is no temporary faculty taking classes now.
14. **Programme-wise Student Teacher Ratio:**
a) UG – 190:11, PG – 14:11, Ph.D. – 28:11 **Cumulative Ratio 21:1**
15. **Number of academic support staff (technical) and administrative staff sanctioned, filled and actual:**

	Sanctioned	Filled	Actual(including CAS & MPS)
Superintendent, Agril. Extension	1	0	0
Senior Assistant	1	1	1
Audio Visual Operator	1	1	1
Peon	1	1	1
Laboratory Attendant	0	0	0

16. **Research thrust areas as recognized by major funding agencies:**
For Extension:
 Constraints Analyses in Agriculture, Content Analyses, Women Participation in Agro-sector, Evaluation of Development Projects.
For Economics:
 Investment & Subsidy in Agriculture, Integrated Pest Management, Sustainable Agriculture, Agricultural Finance, Agricultural Marketing, Monitoring and Evaluation Studies, Inequality and poverty, International Trade aspects of Agricultural & Allied Agricultural commodities, Livelihood Security in Rural Areas.
For Statistics:
 Exploratory data analysis, Statistical Inference & Decision Analysis, Reliability Analysis, Statistical Modeling, Applied Statistics.
17. **Number of faculty with ongoing projects from a) national b) international agencies and c) Total grants received. Give the names of the project title and grants received project-wise:** 02

- a) Sponsoring Agency: Essar Oil Ltd.
(Project Name: Water Quality Assessment of Coal Bed Water for Proving Irrigation to Agriculture). Fund Received: Rs 277200/-
- b) Sponsoring Agency: Deptt of Agriculture, Govt. of West Bengal
(Project Name: Intensive Sugarcane Research Project), Fund Received: Rs597000/-

Projects Sanctioned and will be started soon :

Sponsoring Agency: Indian Council of Agricultural Research
(Project title: "Socio-economic Institutional and Gender Issues Influencing Spatiotemporal Variation and Sustainability of Participatory Irrigation Management Reforms in India" – under ICAR's Lal Bahadur Shastri Young Scientist Award-2011 to Dr. Souvik Ghosh. (Grant sanctioned: 35 lakhs)

18. Inter-institutional collaborative projects and associated grants

- a) **National collaboration:** Nil
- b) **international collaboration:**

Professor Debasis Bhattacharya Collaborates with the scientists of the Department of Statistics University of California Davis, USA since 1998 and a result many scientific papers came out and published in reputed journals. He has also collaborated with faculties of Mac-Master University, Canada.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, AICTE, etc.; total grants received: Two departmental projects are given below:

Project Name: Water Quality Assessment of Coal Bed Water for Proving Irrigation to Agriculture.

Sponsoring Agency: Essar Oil Ltd. Grant received Rs. 277200/-

Project Name: Intensive Sugarcane Research Project

Sponsoring Agency: Deptt of Agriculture, Govt. of West Bengal. Grant received Rs. 597000/-

20. Research facility / centre with

- a) **state recognition :** NA b) **national recognition:** NA
- c) **international recognition:** NA

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

22. Publications:

- a) **No. of papers published in peer reviewed journals:** 159
(International: 67, National: 92)

- b) **Monographs:** 6
- c) **Chapters in Books:**
- d) **Edited Books:** 11 (Eight) with ISBN
- e) **Books with ISBN with details of publishers:**
 - i) Khatun, Dilruba and Roy, B.C. (2012). Rural Livelihood Diversification in West Bengal. LAP-LAMBERT Academic Publishing, Germany (ISBN 978-3-659-22075-3)
 - ii) Mandal, B. and Chandel, B. S. (2012). Economic Efficiency of Milk Production in Eastern India: A Quantitative Approach. LAP-LAMBERT Academic Publishing, Germany (ISBN 978-3-659-21159-1).
 - iii) Bhattacharya, D. and Roychowdhury (2013). Decision making with data, U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-81-3)
 - iv) Bhattacharya, D. and Roychowdhury (2013). Exploring data, U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-80-6)
 - v) Bhattacharya, D. and Roychowdhury (2013). Practical Statistics (3rd Edn.), U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-86-8)
 - vi) Bhattacharya, D. and Roychowdhury (2012). Inferential Statistics, U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-60-8)
 - vii) Bhattacharya, D. and Roychowdhury (2011). Managerial Statistics, U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-45-5)
 - viii) Bhattacharya, D. and Roychowdhury (2010). Statistics: Theory and Practices (3rd Edn), U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-02-8)
 - ix) Bhattacharya, D. and Roychowdhury (2012). Probability and Statistical Inference (2nd Edn), U. N. Dhur and Sons Pvt. Ltd. (ISBN 978-93-80673-01-1)
 - x) Bhattacharya, D. and Roychowdhury (2011). Statistics in Social Science and Agricultural Research, Concept Publishing Company Pvt. Ltd., in press (ISBN 978-81-8069-822-4)
 - xi) Sarkar, D. (2012). Agricultural Policy in West Bengal: A Policy Matrix, LAP LAMBERT Academic Publishing, Germany.
- f) **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.):** Abstracted in Scopus, Current Index to Statistics, Math Science Review, Zenterblatt Math. 61
- g) **Citation Index — range / average:**
- h) **SNIP:**
- i) **SIR:**

j) **Impact Factor — range / average:**

k) **h-index:**

23. **Details of patents and income generated:** NA

24. **Areas of consultancy and income generated:** Consultation given for research data analysis coming to the department time to time.

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

Name of Faculty	Institution Visited
Prof. Debashis Bhattacharya	University of California-Davis, USA
Prof. Debashis Bhattacharya	Punjab University, Chandigarh

26. **Faculty serving in**

a) **National committees:**

Prof. Debasis Bhattacharya

i) Prof. Debasis Bhattacharya is a member of State Implementation committee for state libraries.

b) **International committees:**

c) **Editorial Boards:**

Prof. Debasis Bhattacharya

i) Editor of the Journal *Stochastic Modeling and Applications*.

ii) Managing Editor of *International Journal of Statistics and Management System*.

iii) Associate Editor of Journal of the Indian Society of Probability and Statistics

Prof. Sarthak Chowdhury

i) ARCC Journal (ISSN 0367-8245).

Prof. Shouvik Ghosh

i) Member of the Editorial Board, Journal of Community Mobilisation for Sustainable Development, ATIC, IARI, New Delhi (since July 2012 onwards).

ii) Associate Editor, Indian Research Journal of Extension Education, Society of Extension Education, Agra, UP, India (May 2009 onwards).

iii) Member of the Editorial Board, Journal of the Indian Society of Coastal Agricultural Research, Indian Society of Coastal Agricultural Research, CSSRI Regional Research Station, Canning Town, West Bengal, India (September 2008 onwards).

Prof. Bidhan Chandra Roy

i) Editor, International Journal of Social Science, New Delhi.

Dr. Debashis Sarkar

- i) Editor, Journal of Social Science Studies, Macrothink Institute (<http://jess.macrothink.org>), USA.
- ii) Editor-in-Chief, International Journal of Social Science, New Delhi

Dr. Siddhartha Dev Mukhopadhyay

- i) Editor, Indian Research Journal of Extension Education

Dr. Digvijay Singh Dhakre

- i) Indian Research Journal of Extension Education
- ii) International Journal of Bio-Resource and Stress Management

d) Any other (please specify):**Prof. Debasis Bhattacharya**

Reviewer of the Following Journals –

- i) Statistics and Probability Letters (Elsevier)
- ii) Journal of Multivariate Analysis (Elsevier)
- iii) Journal of Statistical Planning and Inference (Elsevier)
- iv) Naval Research Logistics (Wiley)
- v) Communication in Statistics: Theory and Methods (Taylor and Francis)
- vi) Journal of Applied Statistics (Taylor and Francis)
- vii) Sankhya (Springer)
- viii) Model Assisted Statistics and Applications (IOS press, Netherland)
- ix) Calcutta Statistical Association

Prof. Shouvik Ghosh

Reviewer of the Following Journals –

- i) Reviewer, of Journal of Agricultural Education and Extension (Routledge Pub., Netherlands), during 2012-13.
- ii) Reviewer, Water Policy (International Water Association Pub.,USA), during 2012.
- iii) Reviewer, *Irrigation and Drainage*(Wiley-Blackwell Pub. United Kingdom), during 2011-12.
- iv) External Expert for Reviewing / Evaluation of Research Project (SWE-2002-108), Swedish Development Research – Assessment of Applications, Swedish International Development Cooperation Agency (Sida), Stockholm.

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

Name of faculty	Programme(s) attended	Duration (days)	Sponsored by
Dr. (Mrs.) A. Saha	UGC sponsored 18 th Refresher Course on Environmental	21 days	UGC Academic Staff College, Burdwan

	Science, 2011		
Dr. D. S. Dhakre	ICAR Training Course on SAS programme, 2012	10 days	NEH-ICAR Research Complex, Barapani, Meghalaya

28. Student projects:

- a) **percentage of students who have done in-house projects including interdepartmental projects:** (100%), All post graduate students do projects in form of dissertation.
- b) **percentage of students doing projects in collaboration with other universities / industry / institute:** All the students' project are with industry.

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

a) **Faculty:**

Prof. Shouvik Ghosh –

Indira Gandhi Rajbhasha Puraskar (First Prize) of Ministry of Home Affairs, Govt. of India conferred by His Excellency President of India, Shri Pranab Mukherjee at Vigyan Bhavan, New Delhi on 14th September 2012.

Lal Bahadur Shastri Outstanding Young Scientist Award 2011 of Indian Council of Agricultural Research (ICAR), Ministry of Agriculture, Government of India conferred by Hon'ble Union Minister of Agriculture and Food Processing Industries Sh. Sharad Pawar and Hon'ble Minister of State for Agriculture and Food Processing Industries Sh. Harish Rawat at National Agricultural Science Complex, Indian Council of Agricultural Research, New Delhi on 16th July 2012.

b) **Doctoral / post doctoral fellows:** Nil

c) **Students:** Nil

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

National Workshop on Extension Management Workshop on Development Projects Management, November 12-13, 2011.

National Workshop on Extension Management Programme for Agricultural Development December 4-5, 2010

National Conference on Application of Statistics in life Science and engineering December 10-11, 2011.

National Conference on Inference for Stochastic Processes: Recent Trends and Ideas, February 21-22, 2014

UGC fund received through University and ICAR fund

Distinguished Participants

Prof. Bikas Sinha, Member National Statistic Commission, New Delhi,

Prof. K. R. Sundaram, Professor and Head, Bio Statistics Division, AIMS, Kochi.

Prof. G.C.Mishra, Professor, BHU

Prof. K. Sinha, BAU, Ranchi

- a) Two-day National Conference on Application of Statistics in Life Sciences & Engineering on December 10-11, 2011 funded by institutional grant.
- b) National Extension Management Workshop on Development Projects Management on November 12-13, 2011 funded by institutional grant.

31. Code of ethics for research followed by the departments:

All relevant code of ethics for research is followed.

32. Student profile programme-wise:

Name of the Programme (refer to question no.4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
P.G. (2013-14)	64	29	01	45.31	1.56
P.G. (2012-13)	67	15	6	22.39	8.96
Ph.D. (2013-14)	19	7	0	36.84	0.00
Ph.D. (2012-13)	24	9	2	37.50	8.33

33. Diversity of students:

Name of the Programme (refer to question no. 4)	% of students from the same University /Board	% of students from other Universities/Board	% of students from other Universities /Board outside the state	% of students from other Countries
P.G. (2013-14)	0	0	100	0
P.G. (2012-13)	0	0	100	0
Ph.D. (2013-14)	0	14.29	85.71	0
Ph.D. (2012-13)	0	0	100	0

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: One ICAR NET (Ganesh Das in Agril. Extension).

35. Student progression:

Student progression	Percentage against enrolled			
	2009-10	2010-11	2011-12	2012-13
PG to M.Phil.	0	0	0	0
PG to Ph.D.	33.3	0	25	0
Ph.D. to Post-Doctoral	0	0	0	0
Employed				
• Campus selection	0	0	0	0
• Other than campus recruitment	66.7	100	75	66.7
Entrepreneurs	-	-	-	-

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	72.73%
from other universities within the State	9.09%
from universities from other States	18.18%
from universities outside the country	0.00%

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Ten faculties have Ph.D. degree. One is going to complete shortly.

38. Present details of departmental infrastructural facilities with regard to

- a) **Library:** Departmental library is under consideration but due to shortage of space that has not taken shape yet.
- b) **Internet facilities for staff and students:** Available.
- c) **Total number of class rooms:** 03
- d) **Class rooms with ICT facility:** 02
- e) **Students' laboratories:** 01
- f) **Research laboratories:** 02

39. List of doctoral, post-doctoral students and Research Associates:

- a) from the host institution/university:

b) from other institutions/ universities :

Year	Name	Category	University
2008	Mr. Manoranjan Mohapatra	Ag. Extension	Came from outside VB
2008	Mr. Jagannath Patra	Ag. Extension	Came from outside VB
2009	Ms. Soma Bhattacharya (Biswas)	Ag. Extension	Came from outside VB
2009	Mr. Chandan Singha	Ag. Economics	Came from outside VB
2009	Mr. Mahamaya Prasad Nayak	Ag. Extension	Came from outside VB
2010	Mr Basudeo Kharga	Ag. Extension	Came from outside VB
2010	Mr. Sangram Paramguru	Ag. Extension	Came from outside VB
2010	Dilruba Khatun	Ag. Economics	Came from outside VB
2010	Mr. Md. Mozamual Hoque	Ag. Extension	Came from outside VB
2010	Mr. Sumantra Hazara	Ag. Economics	Came from outside VB
2010	Ranjan Kumar Biswas	Ag. Economics	Came from out side VB
2011	Ms. Riya Ghoshal	Ag. Extension	Came from out side VB
2011	Mr. Snehasish Karmakar	Ag. Economics	Came from out side VB
2011	Mr. Anuttam Pariari	Ag. Extension	From VB
2011	Mr. Subir Kumar Sinha	Ag. Extension	Came from out side VB
2011	Ms. Madhumita Jena	Ag. Extension	Came from out side VB
2011	Mr. Narayan Bar	Ag. Extension	Came from out side VB
2011	Mr. Saran Kumar Rizal	Ag. Extension	Came from out side VB
2011	Mr. Debabrata Mondal	Ag. Extension	From VB
2011	Ms. Satarupa Nandi	Ag. Economics	From VB
2011	Ms. Joyoti Gayen	Ag. Economics	Came from out side VB
2012	Mr Kharendra Reang	Ag. Extension	Came from out side VB
2012	Mr Samir Ranjan Das	Ag. Extension	Came from out side VB
2012	Mr. Sourav Chakraborty	Ag. Statistics	Came from out side VB
2014	Shiva Prakash	Ag. Economics	Came from out side VB
2014	Debabrata Paul	Ag. Economics	Came from out side VB
2014	Uday shanker mall	Ag. Economics	Came from out side VB
2014	Gosai Das Bairagya	Ag. Economics	Came from out side VB
2014	Gourgopal Chattopadhyay	Ag. Economics	Came from out side VB
2014	Jai Prakash	Ag. Economics	Came from out side VB
2014	Chitrasena Padhy	Ag. Extension	Came from out side VB
2014	Sabyasachi Roy	Ag. Extension	Came from out side VB
2014	Sanjenbam Sher singh	Ag. Extension	From VB

2014	Santanu kumar Patra	Ag. Extension	Came from out side VB
2014	Subhadip Das	Ag. Extension	Came from out side VB
2014	Abhiram Dash	Ag. Statistics	Came from out side VB

- 40. Number of post graduate students getting financial assistance from the university: 02**
- 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:** Through Board of studies and Institute Board.
- 42. Does the department obtain feedback from**
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback:** Yes; Syllabi are revised accordingly.
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback:** Yes; accordingly remedial measures are taken.
 - alumni and employers on the programmes offered and how does the department utilize the feedback:** Yes, suggestions are incorporated through Board of studies and Institute Board.
- 43. List the distinguished alumni of the department (maximum 10):**
- Dr. V.G. Girish, Lecturer, Taiwan University
 - Dr. Swapna Sikder, Deputy Director of Agriculture, Govt. of West Bengal.
 - Dr. Probhat Paul, Associate Professor, UBKV
 - Dr. Chandan Panda, Asst. Professor, Tripura Central University
- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**
Special lectures are arranged for the PG & Ph.D. students participate in the seminars, workshops.
- 45. List the teaching methods adopted by the faculty for different programmes:**
Audio-Visual aids, Chalk and Talk
Industrial placement, Block placement
Field visit
Visit to Demonstration plot
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:**
By organizing student teacher meeting/ interaction.

- 47. Highlight the participation of students and faculty in extension activities:**
Field Extension work through Rural Agricultural Work Experience (RAWEX), Department & Community Cleaning during Gandhi Purnah (10th March each year) and during some other time.
- 48. Give details of “beyond syllabus scholarly activities” of the department:**
Participate in NSS, Gandhi Purnah, Magh Mela, Poush Mela.
- 49. State whether the programme / department is accredited / graded by other agencies? If yes, give details: ICAR**
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**
Department updates its programme to include the recent research interests in the curricula from time to time. This helps the department to train the student in such a way that the students can feel comfortable when they will join their work after finishing their studies. Credit based Semester system has been incorporated for UG, PG & Ph.D. students in order to make the course registration system more flexible. It periodically updates its syllabi according to UGC & ICAR guidelines to incorporate emerging trends of the respective subjects. Seminars, Workshops, Symposia, Trainings, Winter & Summer Schools are organized in accordance with the need of the hour to generate new knowledgebase in both basic as well as applied field. Mention may be made of the contribution in developing impact analysis tools of different projects and programmes, reliability analysis of complex systems, studies of inequality in food security etc.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**
- a) Strengths –**
- i) Internationally & Nationally reputed faculty members.
 - ii) Faculty members publish good quality research articles in journal of national & international repute.
 - iii) Considerable number of students qualifies in Banking and various other competitive examinations of national and international standard.
 - iv) National & international Seminars, Symposia, Workshops are organized in a regular interval which helps faculty & students enhance their knowledge.
 - v) Intregation of three important social science subjects viz. Extension, Economics and Statistics under one umbrella.
- b) Weaknesses –**
- i) Infrastructural inadequacy.
 - ii) No departmental library.

- iii) Less number of students opting for full time research.
- iv) No in-house placements for P.G. and Ph.D. students.
- v) Internet facility available with limited bandwidth and for a limited period only.

c) Opportunities –

- i) Consistent healthy environment & cooperation among faculty and students.
- ii) Students have the opportunity for higher studies after P.G.
- iii) Up to date syllabi catering to latest needs and standards.
- iv) Ample scope for special lectures & invited lectures for knowledge enhancement

d) Challenges –

- i) To admit more students from other states & abroad.
- ii) To make up to date tutorial system and remedial coaching.
- iii) To motivate more students towards high end research.
- iv) To motivate doctoral students towards Post Doc & D.Sc.
- v) To develop more linkage between the department and industry.

52. Future plans of the department:

- a) To open P.G. courses on Agri-Business Management and Bio-Statistics.
- b) To establish an advanced statistical & computing laboratory to facilitate latest research and training needs of faculty & students.
- c) Creation of new space for state of the art classrooms, seminar rooms & faculty rooms.
- d) Upgradation of existing infrastructure to maintain high standard of quality teaching.

Evaluative Report of the Department of Plant Protection

1. Name of the Department : Plant Protection

The Department of Plant Protection was established in 1989 with the amalgamation of two important sections viz. Agricultural Entomology and Plant Pathology. Earlier these two major sections were functioning since 1965 under the Department of Agriculture, Palli Siksha Sadana. However, M.Sc.(Ag) in Plant Protection with specialization in Agril. Entomology and Plant Pathology were offered since 1987. Presently this department offers resident instruction programme in Agricultural Entomology and Plant Pathology comprises undergraduate instruction for the students of Palli Siksha Bhavana and postgraduate instruction leading to M.Sc. and Ph.D. degrees in Plant Protection. The department provides special emphasis on field oriented practicals and trainings to both UG and PG students as well as Rural Agricultural Work Experience programme to UG students. In addition to that the faculty members conduct special classes exclusively for the purpose of JRF,ARS, NET for M.Sc(Ag) students and guide final year B.Sc. (Ag.) Hons students for ICAR, JRF. The postgraduate students are trained in economic entomology, biocontrol, ecology, toxicology, physiology, taxonomy, mycology, bacteriology, virology, mushroom pathology and post harvest pathology. However, traditional strengths of research in the department has been in economic entomology, toxicology and biological control. At present emphasis is given on synthesizing IPM modules for different crops involving bio- agents, cultural practices, host plant resistance and eco friendly chemicals.

2. Year of establishment : 1989

3. Is the Department part of a School/Faculty of the university? Yes, It's under Institute (Faculty) of Agriculture; Palli Siksha Bhavana, Visva-Bharati.

4. Names of programmes offered (UG, PG, M.Phil., Ph.D., integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :

UG (interdisciplinary), PG (in Plant Protection) and Ph.D. (Agril. Entomology and Plant Pathology under traditional system)

5. Interdisciplinary programmes and departments involved: Yes, We have interdisciplinary UG, PG & Ph.D programmes with other departments like Agronomy,

Soil Science, Horticulture, Genetics and Plant Breeding, Extensions, Economics and Statistics. Besides that, we have collaborative PhD programmes with other Universities.

- 6. Courses in collaboration with other universities, industries, foreign institutions, etc.:** We have **Ph.D** courses in collaboration with –
- BCKV, Mohanpur,
 - UBKV, CoochBehar
 - CAU, Imphal
 - ZSI, Kolkata
 - OUAT, Bhubaneswar, Odisha
 - IARI, NBPGR, New Delhi
- 7. Details of programmes discontinued, if any, with reasons:** Not applicable
- 8. Examination System:** Credit based Semester System.
- 9. Participation of the department in the courses offered by other departments:** Department provide expertise in minor and supporting courses offered by other departments, for example:-
Course No. – PGS-502 Library sciences
Course No. – PGS-504, Basic Laboratory Techniques
- 10. Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	1	1	3
Associate Professors	2	1	1
Asst. Professors	5	5	4
Others	Nil	Nil	Nil

- 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :**
- Name** : Prof. Nakul Chandra Mondal

Qualification : M.Sc.(Ag) & Ph.D in Plant Pathology

Designation : Professor (Under MPS)

Specialization : Post harvest & root pathology

No. of Years of Experience : 31

No. of Ph.D./M.Phil. students guided for the last 4 years : 03

- b) **Name** : Prof. Kanchan Baral
Qualification : M.Sc.(Ag) & Ph.D in Agril. Entomology
Designation : Professor (Substantive post)
Specialization : Economic Entomology
No. of Years of Experience : 30
No. of Ph.D./M.Phil. students guided for the last 4 years : 03
- c) **Name** : Prof. Hiram Chatterjee
Qualification : M.Sc.(Ag) & Ph.D in Agril. Entomology
Designation : Professor (Under CAS)
Specialization : Economic Entomology (Sustainable pest management)
No. of Years of Experience : 22
No. of Ph.D./M.Phil. students guided for the last 4 years : 04
- d) **Name** : Dr. Ranjan Nath
Qualification : M.Sc.(Ag) & Ph.D in Plant Pathology
Designation : Associate Professor (Substantive post)
Specialization : Plant Virology & Fungal Pathology
No. of Years of Experience : 15
No. of Ph.D./M.Phil. students guided for the last 4 years : 01
- e) **Name** : Dr. Palash Mandal
Qualification : M.Sc.(Ag) & Ph.D in Agril. Entomology
Designation : Assistant Professor (Substantive post)
Specialization : Economic Entomology (Biological control)
No. of Years of Experience : 11
No. of Ph.D./M.Phil. students guided for the last 4 years : 04
- f) **Name** : Dr. Mohan Kumar Biswas
Qualification : M.Sc.(Ag) & Ph.D in Plant Pathology
Designation : Assistant Professor (Substantive post)
Specialization : Mushroom & Fungal plant pathology
No. of Years of Experience : 08
No. of Ph.D./M.Phil. students guided for the last 4 years : 02

- g) **Name** : Dr. Bholanath Mandal
Qualification : M.Sc.(Ag) & Ph.D in Plant Pathology
Designation : Assistant Professor (Substantive post)
Specialization : Plant Bacteriology & Fungal Pathology
No. of Years of Experience : 04
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil
- h) **Name** : Dr. Swarnali Bhattacharya
Qualification : M.Sc.(Ag) & Ph.D in Agril. Entomology
Designation : Assistant Professor (Substantive post)
Specialization : Economic Entomology (Biological control)
No. of Years of Experience : 01
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil

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

- Prof Dilip Lakshman, USDA-ARS-USA
- Prof Humbarto Gonzalez Rodriguez, UNAL, Mexico
- Prof J Timsina, IRRI, Bangladesh
- Prof. Mrinal Kanti Dasgupta; Alumni, VB
- Prof. Santosh kumar Panda, OUT, Bhubneswar, Odisha
- Dr. N.S. Talukar, AVRDC, Taiwan

13. Percentage of classes taken by temporary faculty — programme-wise: Not applicable.

14. Programme-wise Student Teacher Ratio: Students = 238 (UG-190; PG-16 & Ph.D 32); Teacher = 8; Ratio:- **30: 1** Cumulative

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

Designation	Sanctioned	Filled	Actual (including CAS & MPS)
Senior Technical Assistant	1 (Gen)	1	1 (Attached to this Dept)
Senior Technical Assistant	1 (ST)	1	1
Laboratory Attendant	2 (Gen)	2	2
Administrative Staff	No administrative staff has been sanctioned till date		

16. Research thrust areas as recognized by major funding agencies:

- a) Integrated Pest Management towards sustainable crop production; Behavioural manipulation of crop pests; Toxicology; Biological Control; Host Plant resistance; Integrated Resistance Management against biopesticides and Development of Eco-friendly Package of Practices / Modules to combat noxious insect-pests befitted for the zones under reference.
- b) Integrated Diseases Management; Mushroom Pathology, Post harvest and Root Pathology.

17. Number of faculty with ongoing projects from a) national b) international agencies and c) Total grants received. Give the names of the project title and grants received project-wise:**International projects –**

Funding agency	Title of the Project	Grants received(Rs)
Department for International Development (DFID), London, UK	“Implementation and promotion of IPM technology for the control of eggplant (brinjal) fruit and shoot borer (<i>Leucinodes orbonalis</i>) in Indo-gangetic plains of South Asia”	Rs. 9,06,444/-
Vater and Sohn Eiselen-Stiftung, Ulm, Germany through AVRDC, Taiwan	“Pioneering Development of a Public-Private partnership in the use of Agribiotechnology for Sustainable solutions to insect-pests on Crucifer crops in India”	US\$6000

National projects –

Funding agency	Title of the Project	Grants received(Rs)
Grace Bio-Care Pvt. Ltd., Kolkata	‘Bio-efficacy of Grace Hume 12% (based on Humic acid) and Bloomer NB (based on Nitro Benzene 35%) for sustainable production of Lady’s finger (<i>Abelmoschus esculentus</i>)’	Rs. 89,000.00

Grace Bio-Care Pvt. Ltd., Kolkata	'Investigation of some bio-enriched molecules for the management of potato pests and diseases'	Rs. 72,300.00
Crystal Crop Protection Pvt Ltd.	'Bioefficacy of Fipronil 80% WG against two important insect-pests of rice and Bioefficacy of Acephate 75% SP against some major pests of rice'	Rs. 3,50,000/-
Directorate of PPQ & S, Ministry of Agriculture, Govt. of India.	'Strengthening and Modernization of Pest Management Approach in India (SMPMA)'	

18. Inter-institutional collaborative projects and associated grants

a) National collaboration:

Funding agency	Title of the Project	Grants received(Rs)
Grace Bio-Care Pvt. Ltd., Kolkata	'Bio-efficacy of Grace Hume 12% (based on Humic acid) and Bloomer NB (based on Nitro Benzene 35%) for sustainable production of Lady's finger (Abelmoschus esculentus)'	Rs. 89,000.00
Grace Bio-Care Pvt. Ltd., Kolkata	'Investigation of some bio-enriched molecules for the management of potato pests and diseases'	Rs. 72,300.00

Crystal Crop Protection Pvt Ltd.	‘Bioefficacy of Fipronil 80% WG against two important insect-pests of rice and Bioefficacy of Acephate 75% SP against some major pests of rice’	Rs. 3,50,000/-
Directorate of PPQ & S, Ministry of Agriculture, Govt. of India.	‘Strengthening and Modernization of Pest Management Approach in India (SMPMA)’	

b) international collaboration:

Funding agency	Title of the Project	Grants received(Rs)
Department for International Development (DFID), London, UK	“Implementation and promotion of IPM technology for the control of eggplant (brinjal) fruit and shoot borer (<i>Leucinodes orbonalis</i>) in Indo-gangetic plains of South Asia”	Rs. 9,06,444/-
Vater and Sohn Eiselen-Stiftung, Ulm, Germany through AVRDC, Taiwan	“Pioneering Development of a Public-Private partnership in the use of Agribiotechnology for Sustainable solutions to insect-pests on Crucifer crops in India”	US\$6000

19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, AICTE, etc.; total grants received:** Received about Rs. 35 lakhs from
 - a) DFID, UK &
 - b) Horticultural Board, W.B.
20. **Research facility / centre with**
 - a) **state recognition:** Availability of research facility is at par with the other SAUs in WB
 - b) **national recognition:**
 - c) **international recognition:**
21. **Special research laboratories sponsored by / created by industry or corporate bodies:** A complete laboratory on Biological control of crop pest & diseases will be

coming up in a big way.

22. Publications:

- a) **No. of papers published in peer reviewed journals:** International - 14, National - 63, Total = 77
- b) **Monographs:** 03
- c) **Chapters in Books:** 18
- d) **Edited Books:** 01
- e) **Books with ISBN with details of publishers:**
Mondal, B. (2012). Pathogenic Menace for Brinjal Cultivation in West Bengal: Bacterial Wilt of Brinjal, LAP LAMBERT Academic Publishing GmbH & Co. KG, Germany; 978-3-659-19234-0
Kumar R, Mondal, P. and Chakravarty, M K (2012). Management of gram poder in chickpea, LAP LAMBERT Academic Publishing, Germany; ISBN 978-3-659-13695-5
- f) **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.):** 30
- g) **Citation Index — range / average:**
- h) **SNIP:**
- i) **SIR:**
- j) **Impact Factor — range / average:**
- k) **h-index:** 2

23. **Details of patents and income generated:** Not yet however, some income will be generated shortly from hands on training on mushroom cultivation.

24. **Areas of consultancy and income generated:** Telephonic Advisory services in relation to pest management are also extended to farmers. Diagnostics and advisory services towards sustainable pest management are extended to Directorate of Agriculture, Govt. of West Bengal and different NGO's. In addition to that the faculty members took part in various training programmes organized by Rathindra Krishi Vigyan Kendra, Visva-Bharati including on-farm training to growers in the surrounding villages and also participated in All India Radio and Television extension programmes.

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

- a) Prof. N.C. Mandal visited many national research laboratories like, PAU, HAU, ANGARU and TNAU.
- b) Prof. Kanchan Baral visited OUAT, Odisha, CAU; Imphal.
- c) Prof. Hirak Chatterjee visited research laboratories for Medfly mass rearing

facility at Caudete de las Fuentes, IVIA experimental station and release facility at Moncada, Spain.

- d) Dr. Ranjan Nath visited IARI, New Delhi, BCKV, Mohanpur and RAU, Jodhpur.
- e) Dr. Palash Mondal visited UAS, Dharward, Karnataka.
- f) Dr. Mohan Kumar Biswas visited Dhaka Agricultural Research laboratories.
- g) Dr. Bholanath Mondal visited Xaviers college, Palayamkottai, Tamilnadu.
- h) Dr. Swarnali Bhattacharya visited OUAT, Chiplima campus and NBAII (ICAR), Bangalore.

26. Faculty serving in

a) National committees:

Prof. Kanchan Baral –

- i) Serving as an External Expert in selection committees for selection of teachers in various Universities.

Prof. Hirak Chatterjee –

- i) Serving as Nodal Officer for NISAGENET, ICAR, New Delhi from PSV, Visva-Bharati.

b) International committees: Nil

c) Editorial Boards:

Prof. Hirak Chatterjee –

- i) Acting as Councilor of the Journal of Plant Protection and Environment, OUAT, Orrissa, Bhubaneswar since 2007.

Dr. Palash Mondal –

- i) Editorial Board Member of the Journal of Bio-resource and Stress Management (Print ISSN 0976-3988, Online ISSN 0976-4038).

Dr. Bholanath Mondal –

- i) Editor-in Chief of the Journal 'Green Technology' (ISSN 0973-2624).
- ii) Editorial Board Member of the Journal of Bio-resource and Stress Management (Print ISSN 0976-3988, Online ISSN 0976-4038).

d) Any other (please specify):

Prof. Kanchan Baral –

- i) act as Reviewer of various Journals viz; Journal of Plant Protection and Environment, OUAT, Orrissa; Indian Journal of Entomology, IARI, New Delhi.

Prof. Hirak Chatterjee –

- i) Prof. Hirak Chatterjee act as Reviewer of various Journals viz; Journal of Plant Protection and Environment, OUAT, Orrissa; Indian Journal of Entomology, IARI, New Delhi, 'Insect Science' PAU, Ludhiana and Journal of Plant Protection Sciences, BCKV, WB.

Dr. Bholanath Mondal –

- i) Reviewer of the Journal of Interacademia (ISSN 0971-9016).

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

NAME OF THE FACULTIES	PROGRAMME(S) ATTENDED	DURATION	ORGANISED BY
Dr. P. Mondal & Dr. B. Mondal	18 th Refresher Course in Environmental Science, 2011	21 days	UGC-ASC, Bardhaman University
Dr. P. Mandal	National Training on Advances in Weed Management, 2013	10 days	DWSR (ICAR), Jabalpur
Dr. Swarnali Bhattacharya	Short course on “Detection and measurement of Insecticide Resistance including molecular aspects in Insect Pests”, 2013	10 days	NBAII, Bangalore ICAR sponsored
Dr. M. K. Biswas	Orientation Programme	29 days	UGC -ASC- Jadavpur University, Kolkata
Dr. M. K. Biswas	9 th Refresher Course in Agricultural Sciences, 2011	21 days	UGC-ASC- Banarus Hindu University, Baranasi
Dr. M. K. Biswas	4 th Refresher Course in Life Science	21 days	ASC-The University of Burdwan, Burdwan,W.B.
Dr. M. K. Biswas	Training on “Developing Human Resource for Teaching Core Course in Plant Nematology”	13 days	Department of Nematology CCS Haryana Agricultural University, Hisar,Hariyana

28. Student projects:

- a) **percentage of students who have done in-house projects including interdepartmental projects: 100%**, all PG students do projects in the form of

dissertation.

- b) **percentage of students doing projects in collaboration with other universities / industry / institute: 50%.**

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

a) Faculty:

Prof. K. Baral –

- i) International IPM Recognition Award 2009 at 6th International Symposium on 24 Mar, 2009, USA.

Prof. N. C. Mandal -

- i) Pandit Jawaharlal Nehru Gold Medal award 2014 for “Individual achievement & National Development” (Education and Research) from Global Economic Progress and Research Association, Chennai, Tamil Nadu and felicitated in the International Unity Conference during January 30, 2014.

Dr. Ranjan Nath –

- i) Best Oral Presentation award in “National Seminar on Agriculture, Biosecurity in Changing Scenerio.

Dr. Bholanath Mondal –

- i) Received ‘Young Scientist Award in Plant Pathology’ in the event of the First International Conference on Bio-Resource and Stress Management held on 6-9 Feb., 2013 at Kolkata.
ii) Received ‘Best Poster Paper Award’ entitled ‘Rethinking of Sundarbans Mangrove through Community Participation’ in the event of the First international Conference on Bio-Resource and Stress Management held on 6-9 Feb., 2013 at Kolkata.

b) Doctoral / post doctoral fellows:

Mrs. Debjani Choudhury, doctoral scholar, received Rajiv Gandhi National Fellowship.

c) Students:

Sri Chandan Maity received Best poster presentation 25th National Youth Science congress.

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

Twenty fifth Annual General Meeting of Indian Phytopathological Society (Eastern Zone) 2012 during 6-7 October, 2012

Source of funding: UGC Grant from University and some Agrochemical companies

Outstanding participants:

1. Prof. Pratibha Sharma, Secretary, Indian Phytopathological Society, IARI, New

Delhi

2. Prof. N. K. Dhal, Former Dean, College of Asgriculture, OUAT, Bhubaneswar
3. Prof. B. N. Chakraborty, President, ISMPP, North Bengal University
4. Prof. M. K. Dasgupta, Retd. Professor, Visva-Bharati
5. Prof. S. K. Mukhopadhyay
6. Prof. Srikanta Das, Dean, Faculty of Agriculture, BCKV, Kalyani
7. Prof. H. P. Mishra, OUAT, Bhubaneswar

31. Code of ethics for research followed by the departments:

All relevant codes of ethics for research as laid down in the University rules are followed.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications received	Selected		Pass percentage	
		Male	Female	Male	Female
PG (2012-13)	72	09	0	12.5	0.0
PG (2013-14)	82	07	2	8.5	2.4
PhD (2012-13)	25	07	03	28.0	12.0
PhD (2013-14)	26	07	02	26.9	7.7

33. Diversity of students:

Name of the Programme (refer to question no. 4)	% of students from the same University /Board	% of students from other Universities/Board	% of students from other Universities /Board outside the state	% of students from other Countries
PG (2012-13)	0	0	100	0
PG (2013-14)	22.22%	0	77.78%	0
PhD (2012-13)	50%	0	50%	0
PhD (2013-14)	15.38%	15.38%	69.24%	0

- 34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:** Research Eligibility Test (RET) Qualified: 05 (One) in 2013, 02 (One) in 2012, NET qualified=09.

ICAR-NET Qualifie candidates:

1. Anuj Mamgain (Plant Pathology)
2. Sangrm Kumar Senapati (Agril. Entomology)
3. P. Nagmani (Plant Pathology)
4. Debjani Chowdhuri (Plant Pathology)
5. Sabyasachi Pal (Agril. Entomology)
6. Tarak Brahma Majhi (Agril. Entomology)
7. Dipak Mandal (Agril. Entomology)
8. Sabyasachi Roy (Agril. Economics)
9. Kaushik Sen (Agril. Entomology)

35. Student progression:

Student progression	Percentage against enrolled			
UG to PG	UG programme is jointly offered by all the departments			
PG to M.Phil.	The is no M. Phil programme in Agriculture			
PG to Ph.D.	2009-10	2010-11	2011-12	2012-13
	50%	40%	29%	33%
Ph.D. to Post-Doctoral*	-	-	-	-
Employed				
•Campus selection	25%	20%	0%	0%
•Other than campus recruitment	25%	40%	71%	33%
Entrepreneurs	-			

* Dr. Soma Mukherjee is currently engaged as Post-Doctoral Research associate in USA , after completion of her Ph.D.during 2010 under the supervision of Prof. N. C. Mandal.

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	37.5%
from other universities within the State	50%
from universities from other States	12.5%
from universities outside the country	0%

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: All the faculties were Ph.D holders before joining this service.

- 38. Present details of departmental infrastructural facilities with regard to**
- Library:** Presently we have a small departmental library but Institutional Library facility is available.
 - Internet facilities for staff and students:** Uninterrupted service is not available.
 - Total number of class rooms:** (02) including laboratory
 - Class rooms with ICT facility:** (01) also used as seminar room.
 - Students' laboratories:** (01) also considered as class room.
 - Research laboratories:** Insect Rearing Chamber, Inoculation Chamber, Biocontrol laboratory, *Plant Pathology Laboratory (also used for seating of the faculties)*
- 39. List of doctoral, post-doctoral students and Research Associates:**
- from the host institution/university:** At present 20 Doctoral students are doing their research work.
 - from other institutions/ universities :** 8 (eight).

Name (Academic session 2009-10)	M/F	Host/Other Institution	State	Subject
1. Sri Sourav Mandal	M	*(Host Institution)	WB	Agril Entomology
2. Bipattaran Pandit	M	(Other Institution)	WB	-do-
3. Sri Soumen Chakraborty	M	(Other Institution)	WB	-do-
4. Sri Debojit Das	M	(Other Institution)	WB	-do-
5. Sri Sukhabrata Sarkar	M	(Other Institution)	WB	-do-
6. Sri Samarendra Boral	M	(Other Institution)	WB	-do-
7. Siraj Monir	M	(Other Institution)	WB	Plant pathology
8. Sri Sandipan Garain	M	*(Host Institution)	WB	-do-
9. Sri Karamchand Hembram	M	(Other Institution)	WB	-do-
Name (Academic session 2010-11)				Subject
10. Sri Sitesh	M	(Other Institution)	WB	Agril

Chatterjee		Institution)		Entomology
11. Mrs Malabika Debnath	F	(Other Institution)	WB	-do-
12. Sri Amitava Sarkar	M	(Other Institution)	WB	Plant pathology
13. Sri Chandan Bhuinya	M	(Other Institution)	WB	-do-
Name (Academic session 2011-12)				Subject
14. Mrs Hiranmayee Pradhan	E	(Other Institution)	ORISSA	Agri Entomology
15. Sri Pramod Chintalkulawar	M	(Other Institution)	MAHARSTRA	-do-
16. Sri Anuj Kumar Mumgain	M	*(Host Institution)	UP	-do-
17. Sri Saktipada Mondal	M	(Other Institution)	WB	Plant pathology
18. Sri Subhadeep Pal	M	(Other Institution)	WB	-do-
Name (Academic session 2012-13)				Subject
19. Atit Maji	M	*(Host Institution)	WB	Plant pathology
20. Debjani Chowdhury	F	(Other Institution)	TRIPURA	-do-
21. Diksha Goutam	M	(Other Institution)	DELHI	-do-
22. Uttam Mondal	M	*(Host Institution)	WB	-do-
23. Monish Dey	M	*(Host Institution)	WB	-do-
24. Pradip Kumar Paramanik	M	*(Host Institution)	WB	-do-
25. Rini Pal	F	(Other Institution)	WB	-do-
26. P Nagamoni	F	(Other Institution)	ANDP	-do-

		Institution)		
27. Chandan Maity	M	*(Host Institution)	WB	Agril Entomology
28. Sanjay Mahanty	M	(Other Institution)	ORISSA	-do-

- 40. Number of post graduate students getting financial assistance from the university:** 10 (ten) including Ph.D students.
- 41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:**
Regular assessment on academic progress as well as any changes in course curriculum if any are discussed in the departmental meeting and then ratified in our BOS which are then sent to our Institute board of the Bhavana.
- 42. Does the department obtain feedback from**
- faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback:** Yes, by conducting time to time departmental committee and BOS meetings, these issues are being discussed and if required necessary steps are to be taken up like re-structuring the syllabi, introduction of ICT etc.
 - students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback:** The department used to take proactive steps according to the feedback getting from the students.
 - alumni and employers on the programmes offered and how does the department utilize the feedback:** Alumni and retired professors are invited time to time to deliver their presentation on the respective subjects for enrichment and upliftment of the faculties as well as students.
- 43. List the distinguished alumni of the department (maximum 10):**
- Prof Mrinal Kanti Dasgupta, Rtd. Professor of Plant Protection, PSB*
 - Prof. Adhir Ranjan Dutta. Retired Professor of Plant Protection, PSB*
 - Prof. Supriya Chakraborty, School of life Science, JNU, New Delhi*
 - Dr. Shaonpius Mondal, University of Idaho , USA*
 - Dr. Manas Ghosh, Dean, IRDM Faculty Centre, RKM, Narendrapur*
 - Prof. Samiran Ganguli, DR, RAU, Bikaner*
- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:**
Special lectures are arranged sometimes. PG & Ph.D. students participate in the seminars, workshops.

- 45. List the teaching methods adopted by the faculty for different programmes:**
Mainly Chalk & Talk, use of charts, models for demonstration and LCD projection sometimes.
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:** By organizing student teacher meeting/ interaction.
- 47. Highlight the participation of students and faculty in extension activities:**
Teachers and students of the Department are actively engaged in the extension activities organized by the Institute from time to time and simultaneously the department runs a Plant Health Clinic during office hours on all working days for the benefit of farmers. Telephone advisory services in relation to pest management are also extended to farmers. Diagnostics and advisory services towards sustainable pest management are extended to Directorate of Agriculture, Govt. of West Bengal and different NGO's.
- 48. Give details of “beyond syllabus scholarly activities” of the department:**
a) *Career Counseling to students*
b) *Conducting study tours of the students*
- 49. State whether the programme / department is accredited / graded by other agencies? If yes, give details:** Recognized by ICAR and UGC.
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**
Faculties of the department have got sanctioned 4 major research projects from AVRDC, Taiwan and Horticultural Mission, Govt. of West Bengal. Among them one has achieved international recognition after its successful completion. Some new technologies w.r.t. sustainable management of brinjal fruit and shoot borer in egg plant, important insect-pests of rice and management of bacterial wilt in a eco-friendly way has been developed., Moreover, new vistas towards mushroom production in a commercial has been developed.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**
a) **Strengths –**
i) Department is endowed with Internationally & Nationally reputed faculty members.
ii) Availability of established labs, equipments and instructional farms. Curricula is sound and theory oriented
iii) Faculty members have immense potentiality to take up new venture in

effective teaching, research and extension as they publish good quality research articles in various national & international journals of repute.

- iv) The department has produced quite a good numbers of students who are already established in foreign country as well as in various sectors in India. Also some NET qualified students will uphold the glory in near future,
- v) Present faculty members have developed expertise to act as resource person for imparting training on Bio-rational management of crop pest and diseases for sustainable food production and able to conduct National & international Seminars, Symposia, Workshops.

b) Weaknesses –

- i) Infrastructural inadequacy like acute shortage of space to accommodate modern equipments. Internet facility available with limited bandwidth and No dedicated bio-control laboratory and established Plant-health Clinic
- ii) Lack of motivation and change of aptitude for accepting ‘Plant protection’ as a potential business for productive employment among the students.
- iii) Less number of students opting for full time research & sometime leaves in the mid way due to getting employment
- iv) Shortage of teaching and non-teaching staffs. Very limited scope for the faculties to attend international seminars and workshops to keep them well informed about global development in this arena.
- v) Lack of inter-institutional linkages and public –private partnership in plant protection education.

c) Opportunities –

- i) To upgrade the curricula on a regular basis through periodic reviews. Development of information bank, question bank and power-point presentation slide bank on the subjects. Updating class notes by the faculties of the department and preparation of teaching manuals.
- ii) To attract meritorious students by introducing job oriented courses, like sericulture, apiculture & mushroom culture that are having bright opportunities for self employment and private sector job.
- iii) To develop entrepreneurship among the UG, PG students through hands on training.
- iv) Better use of resources and developing competence and confidence in the output.
- v) Potential to respond to the need of time.

d) Challenges of the Department –

- i) To alleviate the problems in developing resource base for grooming plant protection graduates on the lines of current requirements to ensure

- employability.
- ii) To establish inter-institutional linkages to the extent of faculty/resource exchange programmes and through means of collaboration and cooperation for better perception of the problem.
 - iii) Making curricula w.r.t rural –realistic and farmer centric. Strengthening the link between teaching, research and extension to reduce the time gap in disseminating new technologies.
 - iv) Ensuring biosecurity as well as environment friendly plant health management to enhance quantity and quality of agricultural yields.
 - v) Strengthening basic research for advancement in pest management and efficient resource use.

52. Future plans of the department:

- a) The Department has been planning to establish a Plant Health Clinic for providing single window solution to the farmers of adjoining areas as well as to set up a well equipped bio-control laboratory for conducting need based research at molecular level.
- b) To conduct basic and strategic research in Entomology & Plant Payhology.
- c) To provide services in insect and disease science and technologies.

Evaluative Report of the Department of Education

1. **Name of the Department :** Department of Education
2. **Year of establishment :** 1947
3. **Is the Department part of a School/Faculty of the university?** Yes, a part of Vinaya-Bhavana.
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
 - a) B. Ed.
 - b) M. A. (Education)
 - c) Ph. D
 - d) D. Litt.
5. **Interdisciplinary programmes and departments involved :**
 - a) Programmes involved
 - i) Community Development Programme
 - ii) Cultural Programme
 - iii) Games & Sports
 - iv) Seminar & Workshops
 - b) Departments involved
 - i) Physical Education
 - ii) Sangit Bhavana
 - iii) Palli Siksha Vibhaga
 - iv) Shilpa Sadan
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** None
7. **Details of programmes discontinued, if any, with reasons:** N.A.
8. **Examination System:** Semester System
9. **Participation of the department in the courses offered by other departments :** The Department participates by way of sparing its faculty members for taking classes in the Department of Physical Education.

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

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	02	Nil	04
Associate Professors	08	03	09
Asst. Professors	16	11	13
Others	–	–	–

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

- a) **Name** : Professor Benudhar Chinara
Qualification : M.A., M.Phil & Ph.D
Designation : Professor
Specialization : Physical Education
Health Education
No. of Years of Experience : 23
No. of Ph.D./M.Phil. students guided for the last 4 years : 06
- b) **Name** : Prof. Sambhu Charan Roy
Qualification : M.P.E & Ph.D.
Designation : Professor
Specialization : Research Methodology
Peace and Values Education
Elementary Education
Assessment & Evaluation
Teacher Education
No. of Years of Experience : 32
No. of Ph.D./M.Phil. students guided for the last 4 years : 04
- c) **Name** : Dr.Sukla Bhattacharya
Qualification : M.Sc., M.Ed. & Ph.D.
Designation : Associate Professor
Specialization : Environmental Education
Values & Human Rights Education
No. of Years of Experience :
No. of Ph.D./M.Phil. students guided for the last 4 years : 07

- d) **Name** : Dr. Kahnu Charan Sahoo
Qualification : M.A., M.Phil, Ph.D & NET
Designation : Associate Professor
Specialization : Science Education
Environmental Education
Comparative Education
Educational Technology
Educational Psychology &
Curriculum Development
No. of Years of Experience : 22
**No. of Ph.D./M.Phil. students
guided for the last 4 years** :
- e) **Name** : Dr. Biplab Kumar Chatterjee
Qualification : M.Sc., Ph.D
Designation : Associate Professor
Specialization : Work Education
Horticulture
No. of Years of Experience : 14
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 02
- f) **Name** : Dr. Partha Pratim Sikdar
Qualification : M.Fine, NET
Designation : Assistant Professor
Specialization : Artistic Handicraft, Sculpture – Stone
Carving, Bronze Casting, Plaster Casting,
Welded Steel, Wood Carving
No. of Years of Experience :
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 00
- g) **Name** : Dr. Trishna Banerjee
Qualification : M.Mus, Ph.D
Designation : Assistant Professor
Specialization : Music Education
Rabindra Sangit
Hindustani Classical Music
Traditional Bengali Song
No. of Years of Experience : 11

- No. of Ph.D./M.Phil. students
guided for the last 4 years** : 00
- h) Name** : Dr. Sant Kumar Rath
Qualification : M.A., M.Ed., Ph.D & NET
Designation : Assistant Professor
Specialization : Teacher Education
 Philosophy of Education
- No. of Years of Experience** : 09
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 05
- i) Name** : Dr. Prohlad Roy
Qualification : Ph.D., M.A.(Bengali), M.A. (Education),
 M.A. (Public Administration), M.A.
 (Sociology), M.Sc(Criminology), B.Ed. &
 Diploma in Journalism, NET
- Designation** : Assistant Professor
Specialization : Teacher Education
 Social Education
 Folk Education
 Educational Administration
 Language Education
 Tagore's Educational Thoughts
 Dalit Education
 Comparative Education
- No. of Years of Experience** : 15
**No. of Ph.D./M.Phil. students
guided for the last 4 years** : 05
- j) Name** : Dr. Asheesh Srivastava
Qualification : M.Sc, M.A., M.Ed. & Ph.D., NET
Designation : Assistant Professor
Specialization : Philosophy of Education Research
 Methodology & Stats.
 Contemporary Issues, Trends & Problems in
 Education Mathematics.
 Teaching Educational Policies &
 Programmes.
- No. of Years of Experience** : 10

- No. of Ph.D./M.Phil. students guided for the last 4 years** :
- k) **Name** : Dr. Md.Saheer Siddiqui
Qualification : M.A., M.B.A. & Ph.D., NET
Designation : Assistant Professor
Specialization : Economics of Education, Human Resource Development & Management Contemporary Issues in School Education and Problems of Minority Education.
 Spirituality in Education and Contemporary Philosophies: Upanishads, Islam and Sufism.
 Teaching of English Language and Literature.
- No. of Years of Experience** : 04
No. of Ph.D./M.Phil. students guided for the last 4 years : 03
- l) **Name** : Dr. Sarita Anand
Qualification : M.A., M.Ed & Ph.D, NET
Designation : Assistant Professor
Specialization : Educational Technology
 Measurement & Evaluation
- No. of Years of Experience** : 03
No. of Ph.D./M.Phil. students guided for the last 4 years : 02
- m) **Name** : Chitralkha Maiti
Qualification : M.Sc., B.Ed, NET
Designation : Assistant Professor
Specialization : Teaching of geography
 Measurement and Evaluation
 Regional Planning
- No. of Years of Experience** : 03
No. of Ph.D./M.Phil. students guided for the last 4 years : 00
- n) **Name** : Sharmila Yadav
Qualification : M.Sc, , M.Ed., NET
Designation : Assistant Professor
Specialization : Educational Psychology
 Special Education

No. of Years of Experience : 02
 No. of Ph.D./M.Phil. students
 guided for the last 4 years : 00

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: None

13. Percentage of classes taken by temporary faculty — programme-wise :

- a) B.Ed. : 25%
- b) M.A.(Education) : Nil
- c) Ph. D : Nil

14. Programme-wise Student Teacher Ratio :

- a) B.Ed. : 5 : 1
- b) M.A.(Education): 7 : 1
- c) Ph.D: 4 : 1

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

Support Staff	Sanctioned	Filled	Actual
Academic – technical	01	01	01
Administrative	13	13	13

16. Research thrust areas as recognized by major funding agencies: Exploring possibilities.

17. Number of faculty with ongoing projects from a) national b) international agencies and c) Total grants received. Give the names of the project title and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants

- a) National collaboration: Nil
- b) international collaboration: Nil

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

20. Research facility / centre with

- a) state recognition : Nil
- b) national recognition: Nil
- c) international recognition: Nil

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

22. Publications:**a) No. of papers published in peer reviewed journals:****i) National:**

Dr. S. Bhattacharya	–	01
Dr. S.K. Rath	–	08
Dr. P. Roy	–	02
Dr. A Srivastava	–	08
Dr. Md. S. Siddiqui	–	06
Total	–	25

ii) International:

Dr. S Bhattacharya	–	01
Dr. P. Roy	–	09
Total	–	10

b) No. of Monograph:

Dr. P. Roy	–	02
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c) No. of Chapters in Books:

Dr. S Bhattacharya	–	02
Dr. S.K. Rath	–	01
Dr. P. Roy	–	10
Dr. A Srivastava	–	03
Total	–	16

d) No. of Edited Books:

Dr. P. Roy	–	01
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e) Books with ISBN with details of publishers:

- i) Professor S.C. Roy, Broncial Asthma, Yoga Practices or Physical Exercises, Rita Publisher, Kolkata, 2005.
- ii) Professor S.C. Roy, Health & Physical Education, Rita Publisher, Kolkata, 2006.
- iii) Dr. S. Bhattacharya, Environmental Education: The Contemporary Phase, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, 2012, ISBN: 978-3-659-22121-7.
- iv) Dr. P. Roy, Mythological Education In Oral Literature Study On Tribes Of Arunachal Pradesh & West Bengal, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, 2013, ISBN: 978-3-659-43795-3.
- v) Dr. P. Roy, Dalit Education The Planning Of Rabindranath Tagore &

Mahatma Gandhi, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/Germany, 2013, ISBN: 978-3-659-43761-8.

- vi) Dr. P. Roy, The View of Tagore Studies, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2013, ISBN: 978-3-659-38578-0.
- vii) Dr. P. Roy, Paradoxical view and Content Analysis in Quality Education, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2013, ISBN: I978-3-659-32859-6.
- viii) Dr. P. Roy, Education Thoughts and Philosophy of Rabindranath Tagore, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2013, ISBN: 978-3-659-32371-3.
- ix) Dr. P. Roy, Education for Dalit, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2013, ISBN: 978-3-659-32181-8.
- x) Dr. P. Roy, Secondary Education Comparative Delineation, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2012, ISBN: 978-3-659-29784-7.
- xi) Dr. P. Roy, Language Teaching, Curriculum and Problems An Analysis, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2012, ISBN: 978-3-659-29113-5.
- xii) Dr. P. Roy, Human Rights in Ancient Indian Society An Educational Retrospect, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2012, ISBN: 978-3-659-27747-4.
- xiii) Dr. P. Roy, Primary Education A Comparative Appraisal, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO. KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2012, ISBN: 978-3-659-27503-6.
- xiv) Dr. P. Roy, Work Education Recapilation on Vinaya Bhavana of Visva-Bharati, Lambert Publication, AV AKADEMIKERVERLAG GMBH & CO.

- KG, HEINRICH-BCKING STR,6-8,66121 SAARBRUCKEN, DEUTSCHLAND/ Germany, 2013, ISBN: 978-3-659-45701-2.
- xv) Dr. P. Roy, Absurd psychology and modern Bengali poetry, Laxmi Books Publications, Maharashtra, 2012, ISBN: 798-81-92843-2-0.
- xvi) Dr. P. Roy, Development Of Mass Education The Contribution Of Hariguruchand, Laxmi Books Publications, Maharashtra, 2012, ISBN: 978-81-92843-1-.
- xvii) Dr. P. Roy, The Voice Of Time Educational And Social Thoughts, Laxmi Books Publications, Maharashtra, 2012, ISBN: 978-81-92843-0-6.
- xviii) Dr. P. Roy, Expression: Education, Literature, And Society, Laxmi Books Publications, Maharashtra, 2013, ISBN: 978-81-924687-8-5.
- xix) Dr. A. Srivastava, Neo-Realism in Educational Policies and Programmes, APH, New Delhi, 2011, ISBN: 978-81-313-1203-2.
- c) **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.):**
- d) **Citation Index — range / average:**
- e) **SNIP:**
- f) **SIR:**
- g) **Impact Factor — range / average:**
- h) **h-index:**
23. **Details of patents and income generated:** Nil
24. **Areas of consultancy and income generated:** Exploring possibilities
25. **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:** Nil
26. **Faculty serving in**
- a) **National committees:** 04
- b) **International committees:** Nil
- c) **Editorial Boards:** 06
- d) **Any other (please specify):**
27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**
- a) **UGC, ASC, Refresher / Orientation programs :** Yes
- b) **Workshops :** Yes
- c) **Training Programs:** Yes

d) **Short Term Programme:** Yes

28. Student projects:

a) **percentage of students who have done in-house projects including interdepartmental projects:** 100%

b) **percentage of students doing projects in collaboration with other universities / industry / institute:** Nil

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

a) **Faculty:** 01

b) **Doctoral / post doctoral fellows:** Nil

c) **Students:** 01

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

Date	Seminar/Workshop	Source of Funding (National /International)	Details of Outstanding Participants
5 th & 6 th September 2013	"Legacy of Radhakrishnan : Representing India in the New Global Order"	National	Professor Kalyan Bagchi, Professor Suniti Pathak, Professor U.C.Vashishtha, Professor Nirmalangshu Mukherjee, Professor Rakesh Chandra

31. Code of ethics for research followed by the departments:

As per the Guidelines of UGC & Visva-Bharati

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
B.Ed. – 2012-13	2083	47	53	100%	100%
2013-14	987	50	50	–	–
M.A.(Education)–2012-13	280	27	12	100%	100%
2013-14	304	26	13	–	–
Ph.D – 2012		05	02	100%(CW)	100%(CW)
2013	50	11	07	–	–

33. Diversity of students:

Name of the Programme (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
B.Ed.– 2012-13	77 %	22 %	01 %	Nil
2013-14	77 %	21 %	02%	Nil
M.A.(Education) – 2012-13	10.25 %	87.17%	2.56%	Nil
2013-14	07.69 %	89.74%	2.56%	Nil
Ph.D. – 2013	16.66%	44.44%	38.88%	Nil

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

35. Student progression:

Student progression	Percentage against enrolled
UG to PG	
PG to M.Phil.	Nil
PG to Ph.D.	16.66%
Ph.D. to Post-Doctoral	Nil
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	Nil 90% (Approximately)
Entrepreneurs	

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	14.28%
from other universities within the State	35.7%
from universities from other States	50%
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:

Awarded Degree	No. of Faculty
M.Phil.	Nil
Ph.D.	03
D.Sc. and D.Litt.	Nil

38. Present details of departmental infrastructural facilities with regard to
- a) **Library:**
 - i) Library Automation
 - ii) Reading Room
 - iii) Separate Reference Section
 - iv) Internet Facility (Gitanjali Server)
 - b) **Internet facilities for staff and students:** Yes
 - c) **Total number of class rooms:** 05
 - d) **Class rooms with ICT facility:** 02
 - e) **Students' laboratories:**

i) ICT	vi) Wood Craft
ii) Psychology	vii) Weaving
iii) Geography	viii) Music
iv) Science Lab	ix) Horticulture
v) Artistic Handicraft	
 - f) **Research laboratories:** Nil
39. List of doctoral, post-doctoral students and Research Associates:
- a) from the host institution/university?: Nil
 - b) from other institutions/ universities : Nil
40. Number of post graduate students getting financial assistance from the university: Nil
41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Yes, by Survey Method
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:
 - i) For Syllabus Modification
 - ii) Modifying, developing and adopting new strategies for teaching-learning-evaluation
 - b. students on staff, curriculum and teaching-learning-evaluation and how does

the department utilize the feedback:

- i) If positive, appreciating and advocating for the same and in case of negative, persuading the person concerned informally and encouraging meaningful involvement in different programmes and activities.
- ii) For curriculum / syllabus modification.
- iii) Modifying, developing and adopting new strategies for teaching-learning-evaluation.

c. alumni and employers on the programmes offered and how does the department utilize the feedback:

- i) Examining the programme critically
- ii) Obtaining the suggestions and meaningful involvement

43. List the distinguished alumni of the department (maximum 10):

- a) Dr. Sailaja Sankar Ray
- b) Dr. Dillip Mukhopadhyaya
- c) Dr. Biswanath Roy
- d) Smt. Subhra Tagore
- e) Prof. Sukhen Das
- f) Prof. Mohit Chakraborty
- g) Dr. Namita Das
- h) Prof. Dibakar Kundu
- i) Dr. Sukla Bhattacharya
- j) Dr. Manoranjan Bandyopadhyay

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

- a) Special Lecture
- b) Workshop
- c) Weekly Seminar

45. List the teaching methods adopted by the faculty for different programmes:

- a) Project
- b) Peer Group Discussion
- c) Focused Group Discussion
- d) Demonstration
- e) Exhibition
- f) Seminar
- g) Workshop
- h) Field Study
- i) Lecture

- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:**
- Preparation of a well thought out Blueprint in consultation with Faculty members, students and administrative personnel.
 - Distribution of Assignments as per Experience, Expertise & Ability
 - Constant and continuous Supervision & Monitoring of the Programme on the basis of the Feedback from time to time.
- 47. Highlight the participation of students and faculty in extension activities:**
- Occupational Exploration
 - Community Work in Collaboration with REC
 - Activities relating RTE & Literacy
 - Conduct of Field Survey
- 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: No**
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**
- Strengths :**
 - Tagorean Educational Thought & Practice
 - Unique Craft Based Work Education for Teacher Trainees
 - Extension Activities - Community Work, Educational Programme & Research
 - Spiritual & Cultural Value integration
 - Eco-Consciousness
 - Integration of Professional & Liberal Education
 - Weaknesses:**
 - Lack of Research Climate / Ethos
 - Financial Resource Generation Capacity
 - National & International Collaboration
 - Integrated & Interdisciplinary Research
 - Opportunities:**
 - Educational Innovations
 - Education for Community Work & Rural Development (REC)
 - Academic Staff College
 - Activities relating RTE, Literacy
 - National & International Collaboration / MOU

d) Challenges (SWOC) of the Department:

- i) Creation of Centre of Excellence in Education.

52. Future plans of the department:

- a) Opening of M.Ed. & M.Phil Programme
- b) Revival & Strengthening of Extension Activities
- c) Promotion of Interdisciplinary & Theme based Research
- d) Inclusion of Pre-Primary Teacher Education, Elementary Teacher Education Programme
- e) National & International Collaboration
- f) Integrated, Interdisciplinary & Theme based Research

Evaluative Report of the Department of Physical Education

1. **Name of the Department :** Department of Physical Education
2. **Year of establishment :** 1997
3. **Is the Department part of a School/Faculty of the university?** Yes, Vinaya-Bhavana, Visva-Bharati
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) :**
 - a) UG- BA/BSC (Honours) in Physical Education- 3 Years
 - b) T.E- B.P.Ed- 01 year
 - c) PG- M.P.Ed- 2 Year
 - d) Ph.D.
5. **Interdisciplinary programmes and departments involved :** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programmes discontinued, if any, with reasons:**
B.P.E programme discontinued for not fulfilling UGC/NCTE guidelines.
8. **Examination System:** Semester System
9. **Participation of the department in the courses offered by other departments :** Nil.
10. **Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) :**

	Sanctioned	Filled	Actual (including CAS & MPS)
Professor	01	NIL	01+01=02
Associate Professors	03	02	03+03=06
Asst. Professors	06	02	04+02=06
Others	–	–	–

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

- a) **Name** : Prof. Braja Nath Kundu
Qualification : M.P.Ed, Ph.D
Designation : Professor
Specialization : Exercise Physiology, Kinanthropometry and Statistics
No. of Years of Experience : 25
No. of Ph.D./M.Phil. students guided for the last 4 years : 03
- b) **Name** : Dr. Sagarika Bandyopadhyay
Qualification : M.P.E, M.Phil, Ph.D
Designation : Associate Professor
Specialization : Exercise Physiology; Game/Sport: Track & Field
No. of Years of Experience : 31
No. of Ph.D./M.Phil. students guided for the last 4 years : 05
- c) **Name** : Dr. Ashok Kumar Goon
Qualification : M.P.E, Ph.D, Diploma in Coaching: Football (NSNIS, Patiala)
Designation : Associate Professor
Specialization : Exercise Physiology; Game/Sport: Football
No. of Years of Experience : 27
No. of Ph.D./M.Phil. students guided for the last 4 years : 04
- d) **Name** : Dr. Sumanta Kr. Mondal
Qualification : M.P.E, M.Phil, Ph.D, Diploma in Coaching: Athletics (NSNIS, Kolkata)
Designation : Associate Professor
Specialization : Track & Field, Sports Biomechanics
No. of Years of Experience : 20
No. of Ph.D./M.Phil. students guided for the last 4 years : 03
- e) **Name** : Dr. Samiran Mondal
Qualification : M.P.Ed, Ph.D

- Designation** : Associate Professor
Specialization : Exercise and Sports Physiology
No. of Years of Experience : 16
No. of Ph.D./M.Phil. students guided for the last 4 years : 05
- f) **Name** : Dr. Sudarsan Biswas
Qualification : M.P.E, M.Phil, Ph.D, Diploma in Coaching: Football (NSNIS, Kolkata)
Designation : Associate Professor (Dy. Director), Physical Education
Specialization : Exercise and Sports Physiology, Game: Football
No. of Years of Experience : 19
No. of Ph.D./M.Phil. students guided for the last 4 years : Nil
- g) **Name** : Dr. Mahesh Sawata Khetmalis
Qualification : M.P.E, M.Phil, Ph.D
Designation : Assistant Professor
Specialization : Gymnastics & Exercise and Sports Psychology
No. of Years of Experience : 10
No. of Ph.D./M.Phil. students guided for the last 4 years : 02

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

13. Percentage of classes taken by temporary faculty — programme-wise :
 a) UG : 40%

14. Programme-wise Student Teacher Ratio :
 a) UG, TE, PG & Ph.D : 14 : 01

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

Support Staff	Sanctioned	Filled	Actual
Academic – technical	Nil	Nil	Nil
Administrative	05	06	06

16. Research thrust areas as recognized by major funding agencies:
 a) Exercise Physiology

- b) Sports Physiology
17. **Number of faculty with ongoing projects from a) national b) international agencies and c) Total grants received. Give the names of the project title and grants received project-wise: 02**
18. **Inter-institutional collaborative projects and associated grants**
a) National collaboration: Nil b) international collaboration: Nil
19. **Departmental projects funded by DST-FIST; UGC-SAP/CAS, AICTE, etc.; total grants received: Nil**
20. **Research facility / centre with**
a) state recognition : Nil b) national recognition: Nil
c) international recognition: Nil
21. **Special research laboratories sponsored by / created by industry or corporate bodies: Nil**
22. **Publications:**
a) **No. of papers published in peer reviewed journals: 20**
b) **Monographs: 01**
c) **Chapters in Books: 01**
d) **Edited Books: Nil**
e) **Books with ISBN with details of publishers: Nil**
c) **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.): 01**
d) **Citation Index — range / average: Nil**
e) **SNIP: Nil**
f) **SIR: Nil**
g) **Impact Factor — range / average: Nil**
h) **h-index: Nil**
23. **Details of patents and income generated: Nil**
24. **Areas of consultancy and income generated: Nil**
25. **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil**
26. **Faculty serving in**
a) **National committees:**
i) Prof Brajanath Kundu

- ii) Dr. Sagarika Bondyopadhyay
- iii) Dr. Ashok Kumar Goon
- iv) Dr. Sumanta Kumar Mondal
- v) Dr. Samiran Mondal
- vi) Dr. Sudarsan Biswas
- vii) Dr. Mahesh Swata Khetmalis
- b) International committees:**
- c) Editorial Boards:**
- d) Any other (please specify):**
- 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**
 - a) UGC, ASC, Refresher / Orientation programs : Yes
 - b) Workshops : Yes
 - c) Training Programs: Yes
 - d) Short Term Programme: Yes
- 28. Student projects:**
 - a) percentage of students who have done in-house projects including interdepartmental projects: 13%
 - b) percentage of students doing projects in collaboration with other universities / industry / institute: Nil
- 29. Awards / recognitions received at the national and international level by**
 - a) Faculty: 01
 - b) Doctoral / post doctoral fellows: Nil
 - c) Students: Nil
- 30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:**

Date	Seminar/Workshop	Source of Funding (National /International)	Details of Outstanding Participants
	24 th National Conference of Sports Psychology on “Sports and Exercise Psychology: Career Development and Psychological Aspects of Youth Sports”		

2014	24 th Pan Asian Sports & Physical Education Conference, 2014 on Traditional Sports and Modern Sports for the Development of Global Human Resource		
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31. Code of ethics for research followed by the departments:

At per with guidelines of the Department.

32. Student profile programme-wise:

Name of the Programme (refer to question no. 4)	Applications Received	Selected		Pass percentage	
		Male	Female	Male	Female
UG [BA/BSC (Hons.) in Phy. Edn]	475	37	02	90%	100%
Teacher Education [B.P.Ed]	152	46	04	100%	100%
PG [M.P.Ed]	311	21	09	100%	100%

33. Diversity of students:

Name of the Programme (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
UG [BA/BSC (Hons.) in Phy. Edn]	25%	95%	5%	NIL
Teacher Education [B.P.Ed]	90 %	98%	2%	NIL
PG [M.P.Ed]	60%	100%	NIL	NIL

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

- General: 16
- OBC: 03
- SC: 08
- ST: 03

35. Student progression:

Student progression	Percentage against enrolled
UG to TE (B.P.Ed)	90%
B.P.Ed to M.P.Ed	66%
PG to Ph.D.	
Ph.D. to Post-Doctoral	50%
Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment 	Campus selection held regularly
Entrepreneurs	

36. Diversity of staff:

Percentage of faculty who are graduates	
of the same university	NIL
from other universities within the State	37.5%
from universities from other States	62.5%
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:

Awarded Degree	No. of Faculty
M.Phil.	04
Ph.D.	11
D.Sc. and D.Litt.	Nil

38. Present details of departmental infrastructural facilities with regard to

- a) **Library:** Bhavana Library
- b) **Internet facilities for staff and students:** Yes
- c) **Total number of class rooms:** 06
- d) **Class rooms with ICT facility:** 01
- e) **Students' laboratories:** 03
- f) **Research laboratories:** 03

39. List of doctoral, post-doctoral students and Research Associates:**a) from the host institution/university:**

- | | | |
|---------------------------|-----------------------|----------------------|
| i) Biswajit Garai | xi) Saurav Sengupta | xxi) Santwana Mondal |
| ii) Biswanath Garai | xii) Radharani Ghosh | xxii) Sanjoy Ghosh |
| iii) Chandan Ghosh | xiii) Aminul Haque | xxiii) Arghya Mondal |
| iv) Debasish Das | xiv) Praloy Nayek | |
| v) Madhu Sudan Hazra | xv) Manashi Dey | |
| vi) Pintu lal Mondal | xvi) Abhijit Thander | |
| vii) Pradip Tudu | xvii) Sujoy Birbanshi | |
| viii) Zirtluanga Chhangte | xviii) Debashri Koner | |
| ix) Biswajit Achary | xix) Sankarsan Pal | |
| x) Papan Mondal | xx) Mahaprasad Ghosh | |

b) from other institutions/ universities :

- | | |
|------------------------|---------------------------|
| i) Arup Gayen | ix) Prasanta Bhuinya |
| ii) Bharti Nigam | x) Amit Kumar Dutta |
| iii) Raj Kumar Majhi | xi) Badal Kr. Jana |
| iv) Sanjib Ghosh | xiii) Aditya Narayan Adak |
| v) Sekhar Mondal | xiv) Swarnava Mukherjee |
| vi) Sumitra Kirtaniya | xv) Arnab Ghosh |
| vii) Tadang Minu | xvi) Sundar Biswas |
| viii) Dibyendu Acharya | xvii) Saidul Islam |

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

B.P.Ed and M.P.Ed courses were introduced with the NCTE recognition as recognition of NCTE was an essential criteria to run the courses for students' placement in state and central Government Jobs.

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:** Yes by reviewing of syllabus and framing and reframing of time table.
- b. students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback:** Yes, Students feedback is place in the teachers meeting for further action plan.
- c. alumni and employers on the programmes offered and how does the department utilize the feedback:** Reviewing and re-structuring the theory and

practical classes time table on the basis of their remarks.

43. **List the distinguished alumni of the department (maximum 10):** Nil
44. **Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:** Work shop:2012-13
45. **List the teaching methods adopted by the faculty for different programmes:**
Demonstration whole-part-whole, Task, guided discovery, exploratory.
46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:**
Peer discussion among faculty members, Interval Tests, Assignments, Project.
47. **Highlight the participation of students and faculty in extension activities:**
Promoting village sports organizing workshop for health and fitness awareness, sporting performance, expertise for organizing and conducting different games and sports by local school, club, district and state association.
48. **Give details of “beyond syllabus scholarly activities” of the department:**
 - a) Acting as resource persons in other universities.
 - b) Invited as guest speakers, keynote speakers.
 - c) Framing Syllabus for school education, higher education at state and national level.
 - d) Member of Editorial board, Advisory board of different Journals and periodicals and also acting as peers.
 - e) Acting as guest teacher in other universities.
 - f) Pursuing research work at own interest with and without financial assistance and publishing research articles in national and international journals
49. **State whether the programme / department is accredited / graded by other agencies? If yes, give details:**
Yes, B.P.Ed and M.P.Ed courses are recognized by the NCTE (National Council for Teacher Education).
50. **Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**
The Department of Physical Education has accomplished Twenty (20) Ph.D. works within 2005-2014 i.e. 7 years on different Sports science disciplines. The findings of the studies are fundamental information which can be employed significantly for identification and development of talents in different sports, development of health and fitness awareness and they are expected to play active role in the improvement of health & fitness status of the people. Department has also accomplished many major

and minor research projects on different challenging subjects like Environmental Science, Aids awareness and welfare of Aids affected patients, Child health and Nutrition with emphasis on psycho-motor development and neuro-physiological aspects of human performance.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

a) Strengths –

- i) Discipline
- ii) Team work
- iii) Quality Teachers
- iv) Unity
- v) Dedication and Sincerity.

b) Weaknesses:

- i) Insufficient properly developed Play Ground.
- ii) Insufficient Updated and sophisticated Laboratory Equipment.
- iii) Insufficient Exposures of Students to the best professional Institution of the country.
- iv) Insufficient IT facilities .
- v) Insufficient Text books in the Library.

c) Opportunities:

- i) Development of Academic and Sports excellence.
- ii) Scope for higher studies
- iii) Placement in professional fields
- iv) Career development in allied disciplines
- v) Avenues to join interdisciplinary fields.

d) Challenges (SWOC) of the Department:

- i) Quality development of teachers.
- ii) Research in sports science disciplines at an advanced level.
- iii) Creation of center of excellence in Physical Education and Sports.
- iv) Collaborative works with other Indian and Foreign Universities.
- v) Development of Human excellence as part of extension activities.

52. Future plans of the department:

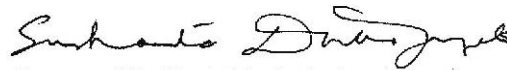
- a) Establishment of Modern Environment Friendly Sports Complex with synthetic track.
- b) Stadium for outdoor games.
- c) Modern Gymnasium with multigym facility subject to availability of future grants.
- d) Establishment of Modern Yoga Centre and Health Club etc.

4. Declaration by the Head of the Institution

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

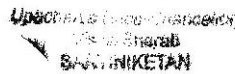
This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

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 seal:



Uttaranchal University
Office of the Registrar
SANTINIKETAN

Place: *Santiniketan*
Date: *03.09.2014*