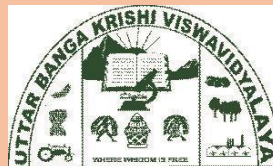


Department of Entomology

ANNUAL REPORT

2021-22



Faculty of Agriculture
UTTAR BANGA KRISHI VISWAVIDYALAYA
PUNDIBARI, COOCHBEHAR – 736165
West Bengal, India


From the desk of Head of the Department

Department of Agricultural Entomology has prepared its Annual Report for the year 2021-22. The report is the exact reflection of the year round activities of the Department involved in different activities; i.e. in the area of academic, research and extension. The respected as well as the knowledgeable and experienced faculties of the Department shouldered their responsibilities throughout the year. They guided the students in both UG and PG levels. They not only illuminated them to gain knowledge through theoretical classes, but they unearthed the treasures before them that are hidden in laboratory studies as well as in field level practical classes. The students are distinct indifferent activities, both in academic and research, and are excellent competitors in different examinations like JRF, NET, SRF etc. The effort, hard work, dedication of the students and the help and guidance from the teachers as pathfinders built up the basement of the success that made us very proud. A Voluntary Centre on AICRP on Biological Control of Crop Pests, established in the year 2016-17, has been upgraded to Contingency Centre as approved from NBAIR, Bengaluru and is continuously working on different parameters of Biological Control of crop pests and weeds.

Farmers are one of the pillars of Agriculture. All the teachers have always raised their helping hand in the form of advisory to the farmers who attended the Department for any query. Non-teaching staffs have also expressed their co-operative attitude in every aspect. All of them provided necessary information during preparation of the report.

I am very much thankful to all of them for the whole-hearted co-operation and co-ordination. I congratulate the entire Department for preparing the Annual Report 2021-22 so successfully.

Date: 15.06.2022
Place: Pundibari


(Prof. J. Ghosh) 15/06/2022

CONTENTS		
Sl. No.	Topic	Page No.
	Executive Summary of the Department	1
1.1	Introduction	1
1.2	Objectives	1
2.	Teaching	1-4
2.1	Post Graduate Requirement	2
2.2	PG Student completed degree	2-3
2.3	Existing M.Sc. students	3
2.4	Existing Ph.D. students	3-4
3.	Research	5-7
3.1	Area of research	5
3.2	Scholarships, Stipends and fellowship	5-6
3.3	Involvement of teachers in various research projects	7
4.	Extension Activities	7
5.	Infrastructural Facilities	8
6.	Faculty And Staff Position	9
7.	Publication	10-11
(i)-(v)	Book, Book chapter, Bulletin, Abstract, Popular article	10-11
8.	Symposium/ Trainings/ Seminars/Workshops Attended or Organised	11
9.	Member of Academic Societies	12
10.	Other Activities and Achievements	12
11.	Curriculum Development & Delivery	12
12.	Linkages With ICAR Institutes For Academic Research	13
13.	Photographs	14-16
	Teaching Related	14
	Research Related	15
	Extension Related	16

Executive summary of the Department of Agril. Entomology (2021-22)

1.1 INTRODUCTION:

This department started as a constituent under the erstwhile North Bengal Campus of Bidhan Chandra Krishi Viswavidyalaya (BCKV) since 1979 at Gram Sevak Training Centre at Cooch Behar, West Bengal and only the undergraduate courses were catered till 1998. After that M.Sc. (Ag.) programme with an intake capacity of five (05) students was introduced from 1999.

The full-fledged Department of Agricultural Entomology started functioning with the establishment of Uttar Banga Krishi Viswavidyalaya in February, 2001. Since the establishment of the university in 2001 both the undergraduate and post graduate courses (M.Sc. and Ph.D.) have been introduced.

1.2 Objectives

- a) Conducting instructional programme to the Under Graduate, post-Graduate and Ph.D. students through theory and practical trainings to develop and supply best human resources in the field of agriculture and allied sciences to compete in job market.
- b) To carry out and supervise fundamental, academic and applied researches for the development of science for ultimate benefit to the farming community with keen attention towards restoration of health, environment and right to get residue free food stuff.
- c) Imparting training and visit to the farmers field with the students for the benefit of teachers and students to perceive the current on-farm problems and also to provide advisory with most modern technologies for mitigation.
- d) Restoring democratic environment and to maintain corporate life in integrity among the members of the Department for better teaching-learning processes.
- e) To maintain sustained effort towards improving teaching methodology befitting course-curriculum for imparting best knowledge to the students.

2. Teaching

The Department has catered different courses for Under Graduate Agriculture and Horticulture students as per Vth Dean Committee were ENT-151, ENT-152, ENT-201, ENT- 251, ENT- 301, ENT-351, ENT-352 and ENT- 353 during the tenure 2021-22.

2.1 Post Graduate Requirement:

The courses offered to the PG students were –

M.Sc.: ENT- 501, ENT-502, ENT-503, ENT-504, ENT-506, ENT-507, ENT-509, ENT-510, ENT-511 and ENT-512.

Ph.D.: ENT-601, ENT-602, ENT-603, ENT-605, ENT-606, ENT-607, and ENT-608.

2.2 PG Student completed degree:

i) M.Sc. (Ag)

SL No	Name of the student	Gender	Home state	Supervisor	Title of the thesis
1.	Dhanapati Gokul Krishna	M	Odisha	Prof. S. Pal	Studies on Some Common <i>Coccinellids</i> with Special Reference to Morpho-taxonomy and Bio-ecology of <i>Micraspis</i> spp.
2.	Samrat Saha	M	West Bengal	Prof. N. Laskar	Assessment of Bee Forages through Melissopalynological Analysis from Terai Agro-ecological Situation of West Bengal.
3.	Bipad Taran Sutradhar	M	West Bengal	Prof. J. Ghosh	Insect Pest Constraints of StoredPulses
4.	Mrinal Karjee	M	West Bengal	Dr. P. Sarkar	Response of Rice Genotypes to the Rice Root Knot Nematode (<i>Meloidogyne graminicola</i>) and its Integrated Nursery Management Strategy in the Foothills of Eastern Himalayas

ii) Ph. D.

SL No	Name of the student	Gender	Home state	Supervisor	Title of the thesis
1.	Biswajit Patra	M	West Bengal	Prof. T. K. Hath	Studies on Insecticide Resistance in <i>Empoasca flavescens</i> Fabricius and Acaricide Resistance in <i>Oligonychus coffeae</i> Nietnar on Tea.

2.	Biwas Gurung	M	West Bengal	Dr. W. Reza	Studies on Arthropod Faunal Complex on Wheat Ecosystem with Special Reference to Aphid In Terai Region of West Bengal
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2.3 Existing M.Sc. students along with the name of supervisor

SL No	Name of the student	Gender	Home state	Supervisor	Title of the thesis
1.	A. Sankeerthana	F	Maharashtra	Prof. T. K. Hath	– Yet not finalised –
2.	Balaga Pranaya	M	Andhra Pradesh	Prof. S. Pal	
3.	Gouri Sankar Nandi	M	West Bengal	Prof. S. K. Sahoo	
4.	Jayashree S.	F	West Bengal	Dr. P. Sarkar	
5.	Kalla Pushpa	M	West Bengal	Prof. J. Ghosh	
6.	Sarafat Ali	F	Tripura	Prof. T. K. Hath	
7.	S. Manohar	F	Andhra Pradesh	Prof. N. Laskar	

2.4 Existing Ph.D. students along with the name of supervisor

SL No	Name of the student	Gender	Home state	Supervisor	Title of the thesis
1.	Sibananda Singha	M	West Bengal	Prof. N. Laskar	Biotic Stress of Honey Bee (<i>Apis mellifera</i> Linn) and their Eco-Friendly Management under Terai Region of West Bengal.
2.	Debanjan Chakraborty	M	West Bengal	Prof. S. K. Sahoo	Species Recognition and Bio-Ecology of Invasive Rugose Spiralling Whitefly, <i>Aleurodicus Rugioperculatus</i> Martin (Aleyrodidae: Hemiptera) in West Bengal.
3.	Tapas Kumar Hembram	M	West Bengal	Dr. T. Dhar	Study on Feeding Preference and Digestive Physiology of <i>Spodoptera frugiperda</i> (Smith) and <i>Spodoptera Litura</i> (Fab.) on Different Hosts.
4.	Atanu Maji	M	West Bengal	Prof. S. K. Sahoo	Morphometric and Molecular Characterization of Aphids (Aphididae: Hemiptera) on Vegetable and Fruit Crops in West Bengal

5.	Riju Nath	M	West Bengal	Prof. S. K. Senapati	Study on pollinators under Terai Agro-climatic Region of West Bengal
6.	Tumma Mounika	F	Telangana	Prof. T. K. Hath	Diversity of Insect-pests of Stored Pulses with Special Reference to Bio-ecology of <i>Callosobruchus chinensis</i> under Terai Agro-Ecology of West Bengal
7.	Pousabh Das	M	West Bengal	Dr. Wasim Reza	Key Insect-pest and their Management at Different Growth Stages of Paddy (<i>Oryza sativa</i> L.) in Terai Region of West Bengal
8.	Deepika Gadaily	F	Sikkim	Dr. T. Dhar	Studies on Insect-pest and Natural Enemy Biodiversity in Cabbage (<i>Brassica oleracea</i> var. capitata L.) under Terai Zone of West Bengal
9.	Toge Riba	M	Arunachal Pradesh	Dr. N. Chowdhury	Pest Constraints of Litchi (<i>Litchi chinensis</i> Sonn) at Different Agro-climatic Sub-region of Zone-II (India)
10.	Abhijit Bhadra	M	West Bengal	Dr. W. Reza	Studies on relative efficacy of new chemical pesticides against soybean (<i>glycine max</i> l.) pests vis-à-vis their seasonal incidence and subsequent effect on oil and protein content
11.	Adrish Dey	M	West Bengal	Prof. N. Laskar	Assessment of spatio-temporal variation in bee-forage in West Bengal through melissopalynological investigations.
12.	Dosa Rajeswari	F	Telangana	Prof. S. Pal	Pest complex of Maize and their sustainable management
13.	Sanjoy Samanta	M	West Bengal	Prof. S. K. Senapati	Studies on insect fauna with reference to pests and pollinators acting upon ridge gourd (<i>Luffa acutangula</i> L. Roxb.) in Terai region of West Bengal
14.	Subham Kr. Sarkar	M	West Bengal	Prof. J. Ghosh	Diversity, population dynamics and basis of resistance against pod borer complex of redgram (<i>Cajanus cajan</i> L. Millsp.) under Terai zone of W.B.
15.	Swagata Bhowmik	F	Tripura	Prof. S. K. Sahoo	Studies on aphid faunal diversity in field crops particularly cereals, pulses and oilseeds with special reference to seasonal abundance of aphid species of field pea and mustard

3. RESEARCH

3.1 Area of research:

The Department of Agril. Entomology has directed research activity on various aspects in the following way –

- * Crop-pest based research
- * Fundamental research like species identification, morphological studies, taxonomical studies including application of molecular approaches.
- * Formulation of IPM modules for different crop and pests
- * Mass production, release and maintenance of biological agents
- * Productive insect based research like honey bee, silkworm etc.
- * Management of nematodes and mites pests of different crops

3.2 Scholarships, Stipends and fellowship:

i) M.Sc. students

Sl. No.	Name of the students	Name of the Scholarship	Amount (Rs.)
1.	A. Sankeerthana	University Merit Scholarship	3,600/- per semester
2.	Gouri Sankar Nandi	Swami Vivekananda Merit-cum-Means Scholarship	18,000/- per year
3.	Jayashree S.	National Talent Scholarship	5,000/- per month
4.	Kalla Pushpa	Swami Vivekananda Merit-cum-Means Scholarship	18,000/- per year
5.	Sarafat Ali	-Do-	18,000/- per year
6.	S. Manohar	National Talent Scholarship	5,000/- per month
7.	Balaga Pranaya	University Merit Scholarship	3,600/- per semester

ii) Ph.D. students

Sl. No.	Name of the students	Name of the Scholarship	Amount/month (Rs.)
1.	Riju Nath	University Research Scholar	18,000/- per month
2.	Tumma Mounika	Non-NET Swami Vivekananda Merit-cum-Means Scholarship	8,000/- per month
3.	Pousabh Das	University Research Scholar	18,000/- per month
4.	Deepika Gadaily	Non-NET Swami Vivekananda Merit-cum-Means Scholarship	8,000/- per Month
5.	Abhijit Bhadra	University Research Scholar	18,000/- per month
6.	Adrish Dey	AIEEA (JRF/SRF) Ph.D.	31,000/- per month
7.	Dosa Rajeswari	Non-NET Swami Vivekananda Merit-cum-Means Scholarship	8,000/- per month
8.	Sanjoy Samanta	University Research Scholar	18,000/- per month
9.	Subham Kr. Sarkar	-Do-	18,000/- per month
10.	Swagata Bhowmik	Non-NET Swami Vivekananda Merit-cum-Means Scholarship	8,000/- per month

3.3 Involvement of teachers in various research projects:

SL. No.	Name of the projects/ scheme	Name of the P.I.	Year of commencement	Funding Agency	Total Budget (Rs.)
1.	AICRP on Biological Control of Crop Pests and Weeds	Prof. S. K. Sahoo	2018	ICAR-NBAIR	Contingency Centre
2.	Bio-efficacy, Phytotoxicity and residue of Fipronil 4% + Acetamiprid 4% SC against pests of Okra and Tomato	Prof. J. Ghosh	2019	Parijat Industries Pvt. Ltd.	7.98 lakh
3.	Bio-efficacy trial of Emamectin benzoate 1.5% + Profenophos 35% WDG against green semilooper, pod borer, girdle beetle & tobacco caterpillar in Soybean.	Prof. J. Ghosh	2021	-Do-	2.80 lakh
4.	Efficacy testing of Sulfoxaflor + Bifenthrin 15% SE w/w against sucking pests in Brinjal, Tomato, Okra and Chilli	Dr. M. Chatterjee	2021	Dow Agro Sciences India Private Limited	16.80 lakh
5.	Evaluation of Chlorantraniliprole 9.3% w/w + Lambda Cyhalothrin 4.6% w/w ZC (Ampligo 150 ZC) in Rice through Drone application	P.I.: Prof. A. Roy Co-PI: Prof. S. K. Sahoo	2021	Syngenta	2.50 lakh

4. Extension Activities

Several training programmes were organised under the extension activities during 2021-22. These are as follows –

- Training cum input distribution (Saplings of litchi and citrus) among tribal farmers under AICRP-Biological control was organised on 31.07.2021 at Samuktala, Alipurduar.
- Training cum input distribution (bio-agents) among tribal farmers under AICRP-Biological control was done on 17.03.2022 at Baniagaon (Samuktala: Alipurduar)
- Training cum input distribution (bio-agents) among tribal farmers under AICRP-Biological control was organised on 24.03.2022 at Singimari.

5. INFRASTRUCTURAL FACILITIES

Sl. No.	Infrastructure	Number	Facilities Available
a)	Seminar Hall cum classroom	01	AC, Internet Connectivity and LED Monitor for display/presentation
b)	Molecular Entomology Laboratory	01	Thermal Cycler PCR, Gel Electrophoresis, Deep Freezer, Transilluminator, Digital Hot Water Bath and Micro Centrifuge
c)	Insect Taxonomy and Morphology Laboratory	01	Stereo Zoom Microscopes (Binocular/Trinocular: 07) with imaging facility, Hot Air Oven, BOD
d)	Biological Control Laboratory	01	Laminar Air Flow and Autoclave
e)	Acarology Laboratory (under progress)	01	– N.A. –
f)	UG Laboratory (Fundamentals of Entomology)	01	Simple and Compound Microscopes (30 each)
g)	Insect Museum	01	Collection of insects belonging to different orders featuring an aesthetic appeal
h)	PG Laboratory	01	Laminar Air Flow, Hot Air Oven and other Instruments and Equipments related to PG Research

6. FACULTY AND STAFF POSITION

a) Faculty

Sl. No	Name	Designation	Specialisation	Contact details
1.	Dr. Jaydeb Ghosh	Professor	Economic Entomology and Acarology	Ph.No.9434483767 Email: jaydebubkv@yahoo.com
2.	Dr. T.K. Hath	Professor	Economic Entomology	Ph.No.9434685670 Email: tapanhath@gmail.com
3.	Dr. N. Laskar	Professor	Economic Entomology	Ph. No. 9434483855 Email: nripendralaskar@yahoo.co.in
4.	Dr. S.K. Sahoo	Associate Professor	Economic Entomology	Ph.No.9647255868 Email: shyamalsahoo@gmail.com
5	Mrs. M. Chatterjee	Assistant Professor	Economic Entomology and Acarology	Ph.No.9679350517 Email: mouлита.2014@gmail.com
6.	Mr. D. Chakraborty	Assistant Professor	Economic Entomology	Ph.No.9647800589 Email: debanjan.ubkv@gmail.com

b) Staff

Sl. No.	Name	Designation	Specialisation	Contact details
1.	Dr. T. K. Ghosal	Superintendent (Tech.)	Associated in practical classes	Ph.No.9474521381 Email: drtkghosal@gmail.com
2	Sri Subrata Dhar	Lab Attendant	Maintenance of files, lab attendant, letter distribution	Ph. No. 6297793652 / 9851749595

7. PUBLICATION

Sl. No.	Title	Author(s)	Journals with NAAS Rating/Other rating
1.	Susceptibility of different rejuvenated mango cultivars to leaf cutting weevil (<i>Deporaus marginatus</i>) (January, 2022)	Polu, P., Sahoo, S.K. and Bhowmick, N.	<i>Agricultural Mechanization in Asia</i> . 53 (5): (NAAS rating 6.14) (ISSN: 0378-9519)
2.	Bio-efficacy of botanicals against pulse beetle, <i>Callosobruchus chinensis</i> L. in stored chickpea. (January, 2022)	Mounika, T., Sahoo, S.K., Chakraborty, D. and Debnath M.K.	<i>Journal of Eco-friendly Agriculture</i> . 17 (1): 94-99. (NAAS rating 5.23) (ISSN: 2582-2683)
3.	Evaluation of some botanicals against <i>Callosobruchus chinensis</i> L. infesting stored chickpea seeds and bio-chemical analysis of used botanicals. (December, 2021)	Mounika, T., Sahoo, S.K. and Chakraborty, D.	<i>International Journal of Bio-resource and Stress Management</i> . 12 (6): 679-686 (NAAS rating 5.11) (ISSN: 0976-3988)
4.	Seasonal incidence of rice leaf folder <i>Cnaphalocrosis medinalis</i> (Guenee) in kharif rice under terai region of West Bengal. (July, 2021)	Chatterjee, M. , Nilanjana, C. and Ghosh, J.	<i>Journal of Entomological Research</i> . 45 (2) : 286-289 (NAAS rating 5.89) (ISSN: 0378-9519)
5.	Fruit Fly Species Complex Infesting Cucurbits in India and their Management. (March, 2022)	Nair, N. Chatterjee, M. , Das, K., Sehgal, M. and Malik, M.	<i>International Journal of Agriculture, Environment and Sustainability</i> . 3 (2): 8-17. (ISSN: 0084-5841)
6.	Sanchita (YSWB 2014/2) and Anushka (YSWB 2011-10-1) – two yellow sarson (<i>Brassica rapa</i> var. yellow sarson l.) varieties notified for West Bengal. (June, 2021)	Dutta, A., Mandal, K. N., Sahoo, S. K. , Das, R., Roy, S., Sarkar, S., Patra, S. R., Bhujbal, S., Rai, A. and Jambhulkar, S. J.	<i>Journal of Oilseeds Research</i> . 38 (2): 207-210. (NAAS rating 4.59) (ISSN: 0970-2776)

i. **Book: NIL**

ii. **Book Chapter:**

Sl. no.	Title	Authors	Detail of Publication
1.	Eco-friendly Management of Pests-Diseases of Crops through Bio-control Agents. In: Integrated Pest Management Strategies for Sustainable Agriculture. Pp 249-260.	Bahadur, A., Awasthi, D. P., Chatterjee, M. and Das, K.	New Delhi Publishers. ISBN: 978-93-91012-44-1

iii. **Bulletin: NIL**

iv. **Abstract: NIL**

v. Popular Article

Sl. No.	Title	Authors	Detail of Publication
1.	Lady Bird Beetles: the most colourful and graceful predators of various phytophagous insects.	Chatterjee, M. and Halder, J.	Agriculture Letters (ISSN: 2582-6522)
2.	Aamer Suli Poka Ke Chinun o Nyantran Karun	Sahoo, S. K.	Bengali News Paper (Sangbaad Pratidin- 12.05.2021)
3.	Bideshee Patanga Rugose Spiralling Sada Machhir Samprotik Akromon o tar Pratikaar (First issue)	Chakraborty, D. and Sahoo, S. K.	Bengali News Paper (Sangbad Pratidin - 18.08.2021)
4.	Bideshee Patanga Rugose Spiralling Sada Machhir Samprotik Akromon o tar Pratikaar (First issue)	Chakraborty, D. and Sahoo, S. K.	Bengali News Paper (Sangbaad Pratidin - 25.08.2021)
5.	Joibo Upaye Fasaler Rog-Poka Daman	Patra, B. and Sahoo, S. K.	Bengali News Paper (Sangbaad Pratidin - 03.11.2021)

8. SYMPOSIUM/ TRAININGS/ SEMINARS ATTENDED AND ORGANISED:

Sl. No.	Topic of seminar (Attended by)	Venue and date	Duration	National/ International	Funding Agency/Organiser (ICAR/Other)
1.	Covid 19: Challenges for Management of Mental Health and Risk Factor (Prof. S. K. Sahoo)	Online Mode 19 .05.2021 20.05.2021	2 days	National	A.B.N. Seal College, Cooch Behar
2.	Beekeeping : Opportunities and Challenges (M. Chatterjee)	Online Mode 20.05.2021 21.05.2021	2 days	National	AICRP (Honeybee and Pollinator), Sher-e-Kashmir University, J & K (UT)
3.	Summer School on Integrated Farming System (M. Chatterjee)	Online Mode 01.06.2021 30.06.2021	21 days	National	Plantica Institute of Agricultural Studies and Ministry of MSME (GOI).
4.	Nematode Awareness Day (Prof. S. K. Sahoo)	Online Mode 07.07.2021	1 day	National	AAPP, BCKV, Mohanpur
5.	30 th Annual Group Meeting of AICRP-Biological Control (Prof. S. K. Sahoo, M. Chatterjee and D. Chakraborty)	Online Mode 14.07.2021	1 day	National	ICAR-NBAIR

9. MEMBER OF ACADEMIC SOCIETIES

Sl. No.	Name of the Faculty	Name of the Academic Society
1.	Prof. J. Ghosh	COBACAS Society of Biological Control Advancement
2.	Prof. T. K. Hath	COBACAS
3.	Prof. N. Laskar	Society of Biological Control Advancement
4.	Prof. S. K. Sahoo	COBACAS Entomological Society of India Society of Biological Control Advancement
5.	Mrs. M. Chatterjee	COBACAS Crop and Weed Science Society
6.	Mr. D. Chakraborty	COBACAS

10. OTHER ACTIVITIES AND ACHIEVEMENTS

(Co-curricular, Extension and Professional Development related Activities)

Sl. No.	Acted as Resource Person (Topic)	Date(s) of Training	Funding Agency/Organiser (ICAR/Other)
1.	Lecture on Organic pest management in Medicinal plants (Prof. S. K. Sahoo)	15.09.2021	Basundhara (NGO), Cooch Behar and CADC, Coochbehar
2.	Several Lectures on Commercial Apiculture (Prof. S. K. Sahoo)	16 th and 17 th November, 2021 and 08 th and 09 th February, 2022	DAESI and ATC, Cooch Behar
3.	Several Lectures on Biological Control for Creating Awareness among the farmers (Prof. S. K. Sahoo)	08 th , 09 th , 11 th and 22 nd February, 2022 and 01 st , 22 nd and 23 rd March, 2022	DAESI and ATC, Cooch Behar
4.	Organised Webinars for development of career of students (Prof. S. K. Sahoo)	24 th September and 01 st October, 2021; 02 nd and 04 th February and 14 th -15 th March, 2022	CDC, UBKV, Pundibari

11. CURRICULUM DEVELOPMENT & DELIVERY:

Study material and PPT on different entomological courses under UG and PG. Development of Practical manual of different UG courses.

12. LINKAGES WITH ICAR INSTITUTES FOR ACADEMIC RESEARCH IF ANY:

Sl. No.	Purpose	Institute	No. of Teachers/ Academic Staff
1.	Question setter	CAU, Barapani	Prof. T. K. Hath
		Visva-Bharati University	Prof. J. Ghosh
2.	Thesis evaluator	(i) BCKV, Mohanpur, Nadia (ii) OUAT, Bhubaneswar, Orissa	Prof. T. K. Hath
		(i) R.P.G.A.U., PUSA Samastipur, Bihar (ii) BAU, Sabour	Prof. J. Ghosh
3.	External expert	BCKV, Mohanpur, Nadia	Prof. T. K. Hath

Photographs

Teaching related



Students in the UG Practical Room



Students in the Apiary Unit for Practical Exposure

Research related



Students in the research plot under AICRP on Biological Control of Crop Pests (UBKV Contingency Center)



Research Trial Plot on Evaluation of *B.t.* against Diamond Back Moth under BARC-UBKV collaborative project

Extension related



Input Distribution camp at Baniagaon under AICRP on Biological Control project



Awareness programme on Biological Control (virtual mode) in connection with the Azadi Ka Amrit Mahotsav at Malda KVK, West Bengal