

Biodata of the Scientist

Division/Section: _____ Regional Centre, Bhubaneswar _____

A. Personal information

1. Name (With Title): _____ Dr. Rajasekhara Rao Korada _____

1.a. Qualification: M.Sc. (Agri.), Ph.D. _____

2. Designation: ___ Senior Scientist _____

3. Address(Personal): HIG-3-125, Sri Satya Sai Enclave, Khandagiri, Kolathia,
Bhubaneswar 751 030, Odisha

4. Phone Numbers:

(a)Residence _____ (b)Intercom _____ (c)Mobile_08895585994 _____

5. Email: rajasekhararao.korada@gmail.com, rajasekhararao.korada@icar.org.in _____

6. Countries visited: USA, The Netherlands, Belgium, and France

B. Professional information

1. Area of specialization: Agricultural Entomology

2. Area of interest: Chemical Ecology, Plant Health Management, Biological Control

3. Number of institute projects completed (Add list): _____

Principal Investigator:

- 1) Management of borer pests of tuber crops (2013-202018)
- 2) Physical and Chemical Interactions between Insect-Plant Interface in Tuber Crop Ecosystem (2012-2013)
- 3) Development of semiochemical based management strategies for sweetpotato weevil *Cylas formicarius* (2008 to 2012)
- 4) Distribution of Major Insect pests of tuber Crops and their Natural enemies in North Eastern Hill Region of India (2005 to 2009)
- 5) Utilization of indigenous earthworms for the decomposition of agricultural and forest wastes, ICAR Research Complex for NEH Region, Umiam, Meghalaya.
- 6) (2003 to 2004)
- 7) Integrated Management of Insect Pests of Citrus (2000 to 2004), ICAR Research Complex for NEH Region, Umiam, Meghalaya
- 8) Integrated Management of Insect Pests of Rice (2000 to 2004), ICAR Research Complex for NEH Region, Umiam, Meghalaya

Co-PI

- 1) Integrated Management of Insect Pests of Pulses & Oilseeds, Vegetables (2000 to 2004)
ICAR Research Complex for NEH Region, Umiam, Meghalaya.
- 2) Micropropagation in yams (2005 to 2008)
- 3) Sweetpotato based cropping system (2006 to 2008)
- 4) Organic farming of orange flesh sweetpotato (2006 to 2009)
- 5) Development and Transfer of Tuber Crop Technologies to the North Eastern Region (2005 to

2011).

4. Number of Institute projects being handled (Add list): _____

1) Development of IPM technologies for borer pests of tuber crops (2013 to 2018)

5. Number of externally funded projects completed (Add list): _____

PI or Co-PI/ Associated Scientist	Title of Project (s)	Period (From-To)	Amount/ Budget	Funding agency
Co-PI	Utilization of indigenous entomopathogenic nematodes for the management of insect pests of rice and maize in Meghalaya	2001-2004	Rs. 10 lakhs	AP Cess Fund Project
Associated Scientist	Evaluation of Brinjal Fruit and Shoot Borer pheromone	2001-2004	Rs. 6 lakhs	DFID (UK) (AVRDC, Taiwan)

6. Number of externally funded projects being handled(Add list): _____

PI or Co-PI/ Associated Scientist	Title of Project (s)	Period (From-To)	Amount/ Budget	Funding agency
PI	Differential plant volatile emission: Unfolding the new mechanism of host plant resistance against important insect pests of sweet potato	Dec 2011-Dec 2014	Rs. 23.07 lakhs	Dept of Biotechnology, Ministry of Science & Technology, Govt of India.
Associated Scientist	Sustainable Rural Livelihood and Food Security to Rainfed Farmers of Orissa	2008-2013	Rs. 37.19 lakhs	NAIP, ICAR

7. Number of students guided for a) Ph.D ___ - ___ b) M.Phil ___ - ___ c) M.Sc ___ 5 ___

8. Number of students being guided for a) Ph.D ___ b) M.Phil ___ c) M.Sc ___ 1 ___

8.a. information about the students under your guidance

Name of the student	Course undergoing (Ph.D/M.Phil/M.Sc)	Title of the project/Thesis	E-mail address
Ms. Vijayalaxmi (2013)	M.Sc. (Biotech.), Berhampur University, Berhampur, Odisha	Effects of sweet potato and cassava extracts on sweet potato weevil	

9. Information on guide ship

Guide ship for Ph.D/ M.Phil/ M.Sc	University	Subject

10. Number of Research papers (Add list): ___36_____

1. **Rajasekhara Rao Korada** (2012) Ecology and natural limiting factors of taro corm-borer *Aplosonyx chalybaeus* (Hope). *Journal of Root Crops*, 38 (1): 88-92.
2. Nedunchezhiyan, M., Laxminarayana K, **Rajasekhara Rao K.**, B. S. Satapathy (2011) Sweet potato (*Ipomoea batatas* L.)-based strip intercropping: I. Interspecific interactions and Yield Advantage. *Acta Agronomica Hungarica*, 59 (2): 137-147
3. **Rajasekhara Rao Korada**, Naskar SK, Prasad AR, Prasuna AL, Jyothi KN (2010) Differential volatile emission from sweetpotato plant: Mechanism of Resistance in sweetpotato for weevil *Cylas formicarius* (Fab). *Current Science*, 99 (11): 1597-1601.
4. **Rajasekhara Rao Korada**, S. K. Naskar and S. Edison (2010) Insect Pests and their Management in Yam Production and Storage: A World Review. *International Journal of Pest Management*, 56 (4): 337-349.
5. **Rajasekhara Rao Korada**, Naskar S K, Palaniswami, MS and Ray R C (2010) Management of Sweet Potato Weevil *Cylas formicarius* (Fab.): An Overview. *Journal of Root Crops* 36 (1): 14-26.
6. **Rajasekhara Rao Korada**, N. S. Azad Thakur and S. K. Naskar (2010) Distribution of insects associated with tropical tuber crops along elevational gradients and structurally complex agricultural landscapes in north eastern India. *Journal of Root Crops*, 36 (2); 233-241.
7. Nedunchezhiyan, M., **Rajasekhara Rao K.** and Satapathy, B.S. (2010) Productivity potential, biological efficiency and economics of sweetpotato (*Ipomoea batatas*) based strip intercropping system in rainfed alfisols. *Indian Journal of Agricultural Sciences*, 80 (4): 327-330.
8. Nedunchezhiyan, M., **Rajasekhara Rao, K.** and Satapathy, BS (2010) Effect of strip cropping involving sweetpotato (*Ipomoea batatas*) on soil moisture conservation, weevil infestation and crop productivity. *Journal of Root Crops* 36 (2): 53-58.
9. **Rajasekhara Rao Korada** and Frans C Griepink (2009) Aggregation pheromone compounds of the black larder beetle *Dermestes haemorrhoidalis* Kuster (Coleoptera: Dermestidae). *Chemoecology* 19: 177-184.

10. **Rajasekhara Rao K.** and Azad Thakur, N.S (2009) Seed Treatment and intercrop systems for the management of leaf folder (*Nacoleia vulgalis*) and stem fly (*Ophiomyia phaseoli*) in soybean (*Glycine max*), *The Indian Journal of Agricultural Sciences*, 79 (8): 662-665.
11. Shylesha, A. N., Azad Thakur, N.S., Pathak, K. A. and **Rajasekhara Rao, K.** (2004) In North Eastern Hills Region...Managing Ginger Stem borer (Curculionidae: Coleoptera). *Indian Horticulture*, 49 (3): 13 & 25.
12. **Rajasekhara Rao, K.** (2003) Influence of host plant nutrition on the incidence of *Spodoptera litura* and *Helicoverpa armigera* on Groundnut, *Indian Journal of Entomology*, 65 (3): 386-392.
13. **Rajasekhara Rao K,** Pathak K A and Shylesha AN (2003) Influence of different formulations of insecticides on insect pests and their natural enemies of soybean. *Indian Journal of Plant Protection* 31 (1) 129-133.
14. Shylesha, A. N., **Rajasekhara Rao, K.** and Pathak, K. A. (2003) Biology of Leaf Mining flea beetle *Sebaethe fulvipennis* (Chrysomelidae: Coleoptera)—A Major Pest of Assam Lemon in Meghalaya. *Indian Journal of Hill Farming* 16:35-37.
15. Shylesha, A. N., Pathak, K. A. and **Rajasekhara Rao, K.** (2003) In North-Eastern Hills Region...Managing fruit drop in Citrus Crops. *Indian Horticulture* 48 (3): 8-9.
16. **Rajasekhara Rao, K.,** N. S. Azad Thakur and Shylesha, A. N. (2003). Citrus trunk borer *Monohammus (Anoplophora) versteegi* – A major pest of Khasi Mandarin and its Management in North Eastern Hills Region. Pp. 90-91. In (Ed. Subrahmanyam, B. and Ramamurthy, V. V.) *Proc. of the Nat. Symp. on Frontier Areas of Entomol. Res.*, 5-7 Nov., 2003, Indian Agric. Res. Instt. & Entomol. Soc. of India, New Delhi.
17. **Rajasekhara Rao, K.,** Pathak, K. A. and Shylesha, A. N. (2002) Spatio-temporal changes in the infestation of citrus leafminer, *Phyllocnistis citrella* Stantion in Meghalaya. *Entomon*, 27 (2): 169-178.
18. **Rajasekhara Rao, K.,** Pathak, K. A. and Shylesha, A. N. (2002) Spatial distribution of green aphid *Acyrtosiphon pisum* (Harris) and its predator *Coccinella transversalis* Fab. on field pea. *Indian Journal of Entomology*, 64 (4): 418-423.
19. **Rajasekhara Rao, K.** (2002) Induced host plant resistance in the management of sucking insect pests of groundnut. *Annals of Plant Protection Sciences*. 10 (1): 45-50.
20. **Rajasekhara Rao, K.,** Pathak, K. A. and Shylesha, A. N. (2002). Spatial distribution of stemfly, *Melanagromyza phaseolin* Tryor on Field Pea. *Annals of Plant Protection Sciences*, 10 (1): 59-61.

21. **Rajasekhara Rao, K.**, Pathak, K. A. and Shylesha, A. N. (2002) Spatial distribution of pod boring weevil, *Apion clavipes* Gerst. (Apionidae: Coleoptera) on pigeonpea. *Indian Journal of Entomology*, 64 (1): 88-91.
22. **Rajasekhara Rao, K.**, Pathak, K. A. and Shylesha, A. N. (2002) Spatial dynamics of black aphid, *Toxoptera aurantii* Fon. on citrus at midhill altitudes of Meghalaya. *Indian Journal of Citriculture*, 1(1): 72-78.
23. **Rajasekhara Rao, K.**, Shylesha, A. N. and Pathak, K. A. (2002) Spatial distribution of leafminer, *Sebaethe fulvipennis* Illiger (Coleoptera: Chrysomelidae) on Assam Lemon. *Pest Management in Horticultural Ecosystems*, 8(2):91-95.
24. **Rajasekhara Rao, K.** and Shylesha AN (2002) Spatial distribution of Gundhi bug *Cletus signatus* on rice in Meghalaya. *Insect Environment*, 7 (4) : 147.
25. **Rajasekhara Rao, K.** and Shylesha, A.N. (2002) Spatial distribution of rice gundhi bug *Leptocorisa oratorius* Fab. In Meghalaya. *Insect Environment*, 7 (4): 148-149
26. **Rajasekhara Rao, K.**, Arjuna Rao, P. and Tirumala Rao, K (2001) Influence of fertilizers and manures on the population of coccinellid beetles and spiders in groundnut ecosystem. *Annals of Plant Protection Sciences*, 9 (1): 43-46.
27. **Rajasekhara Rao, K.**, Shylesha, A. N. and Pathak, K.A. (2001). Spatial dynamics of citrus mealy bug *Planococcus citri* Risso at medium altitudes of Meghalaya. *Indian Journal of Hill Farming*, 14 (2) : 48-52.
28. **Rajasekhara Rao, K.** and Pathak, K. A. (2001). Field evaluation of indigenous germplasm of citrus against insect pests. *Indian Journal of Hill Farming*, 14 (2): 117-119.
29. **Rajasekhara Rao, K.** and Pathak, K. A. (2001). Incidence of citrus psylla, *Diaphorina citri* Kuw. on different Indigenous species of citrus in Meghalaya. *Insect Environment*, 6(4): 156-157.
30. Pathak, K.A. and **Rajasekhara Rao, K.** (2001). Indigenous methods of bee keeping in Meghalaya. *Journal of North Eastern Council*, 21 (2): 11-15.
31. Pathak, K.A. and **Rajasekhara Rao, K.** (2000) Insect pests as human food of tribals in North Eastern Region of India. *Indian J. Entomology*, 62(1): 97-100.
32. **Rajasekhara Rao, K.** and Deva Prasad, V. (1999) Host plant Induced Response to Insecticides and Haemolymph Esterase Patterns in American Bollworm, *Helicoverpa armigera* (Hubner). *Entomon*, 24 (1): 9-13.
33. Pathak K A and **Rajasekhara Rao K** (1999) Foraging activity of *Apis mellifera* in sunflower in Meghalaya. *Insect Environment* 5 (1): 14.

34. Pathak K A and **Rajasekhara Rao, K** (1999) Foraging activity of *Apis mellifera* on mustard in Meghalaya. *Insect Environment* 5 (1): 13-14.
35. **Rajasekhara Rao, K.** and Deva Prasad, V. (1997) Studies on Differential Dose-Mortality Response of the American Bollworm, *Helicoverpa armigera* (Hub) Reared on Certain Food Plants. *The Andhra Agricultural Journal*, 44 (3&4): 178-180.
36. Prasad, V. D., Devi, C.T. **Rajasekhara Rao, K.** and Krishnayya, P.V (1995) Host plant induced response to insecticides and haemolymph esterase patterns in *Spodoptera litura* (Fab.). *Entomon*, 20 (3 & 4) : 245-248.

11. Number of Books/Book chapters(Add list): 2 Books/11 book chapters_____

Item	Year	Details	Publisher	Pages
A) Books published				
Authored				
M. Nedunchezhiya N, Archana Mukherjee, K. Laxminarayana, S.K. Jata, Rajasekhara Rao K.	2012	Varieties of tuber crops, Technical Bulletin.	CTCRI, Bhubaneswar	30
Edited				
S. K. Naskar, M. Nedunchezhiyan, K. Rajasekhara Rao, P.S.S. Kumar, R.C. Ray, R.S. Misra & A. Mukherjee	2006	<i>Tuber Crops- In Nutrition, Food Security and Sustainable Environment</i> ISBN 81-903825-0-0	Published by RC-CTCRI, Bhubaneswar, Orissa, India.	372
R. C. Ray, K. Rajasekhara Rao, P. S. SivaKumar	2004	<i>Abstracts of NSRTC-I National Seminar on Root and Tuber Crops 29-31st October, 2004 organized by RC CTCRI & held at Bhubaneswar.</i>	RC-CTCRI, Bhubaneswar	70
B) Book Chapters / Manuals				
Rajasekhara Rao Korada, S. K. Naskar, A. Mukherjee and C. A. Jayaprakas	2012	<i>Management of Sweet Potato Weevil Cylas formicarius: A World Review.</i> (Eds. M. Nedunchezhiyan and G. Byju).	Global Science Books, USA.	79-92
Archana Mukherjee, Samir Kanti Naskar, Korada Rajasekhara Rao, Ramesh Chandra Ray	2012	Sweet Potato: Gains through Biotechnology (Eds. M. Nedunchezhiyan and G. Byju).	Global Science Books, USA	30-42
Rajasekhara Rao Korada	2011	Structure, Function and Dynamics of Biomolecules used in Pest Management of Horticultural Crops (Training Manual)	Regional Centre, CTCRI, Bhubaneswar	250 pages

Rajasekhara Rao Korada	2012	Pest Management in Root and Tuber Crops. In: <i>Advances in Horticulture Biotechnology: Nanotechnology in Agriculture</i> , (H P Singh and VA Parthasarathy). Westville Publishing House, New Delhi (In press).	<i>Advances in Horticulture Biotechnology: Nanotechnology in Agriculture</i> , (H P Singh and VA Parthasarathy). Westville Publishing House, New Delhi (In press).	
Rajasekhara Rao, K. Shylesha, A. N., Azad Thakur, N.S. and Yadav, D.S.	2006	Biology of Taro Corm borer <i>Haplosomyx chlybaeus</i> Hope (Coleoptera: Chrysomelidae) and its Ecological Management by Organic Methods in North East India. <i>In Root and Tuber Crops: In Nutrition, Food Security and Sustainable Environment</i> ISBN 81-903825-0-0	Published by RC-CTCRI, Bhubaneswar, Orissa, India.	Pp. 213- 220
Shylesha, A. N., Azad Thakur, N.S., Rajasekhara Rao, K. and Yadav, D.S.	2006	Evaluation of Indigenous Entomopathogenic Nematodes on Asian Sawfly <i>Anisoartha coerulea</i> Cameron (Hymenoptera: Tenthredinidae) – A Major Defoliator of <i>Dioscorea alata</i> L. in North Eastern India. <i>In Root and Tuber Crops: In Nutrition, Food Security and Sustainable Environment</i> . ISBN 81-903825-0-0.	Published by RC-CTCRI, Bhubaneswar	Pp. 225- 229.
Rajasekhara Rao, K., Shylesha, A. N. and Azad Thakur	2005	Status and Distribution of insect pests on crops and their management by organic methods in North Eastern Hill Region of India,. <i>In Crop Protection: Management Strategies</i> (Eds. D. Prasad),	Delhi, Daya, P. 676, ISBN 81-7035-372-6	pp. 104- 126
Azad Thakur, N.S., Rajasekhara Rao, K., Shylesha, A.N.	2006	Major Insect Pests of Agroforestry Systems and their Management In <i>Agroforestry in North East India: Opportunities and Challenges</i> (Eds. B.P. Bhat and K.M. Bujarbaruah) published by	Director, ICAR RC NEH Meghalaya. Total Pages 663	Pp. 403- 425.
Shylesha, A.N., Rajasekhara Rao, K. and Azad Thakur, N.S.	2006	Bee Keeping in Agroforestry – An Overview. <i>In Agroforestry in North East India: Opportunities and Challenges</i> (Eds. B.P. Bhat and K.M. Bujarbaruah).	Published by Director, ICAR RC NEH Meghalaya. Total Pages 663 (Annex 26).	Pp. 97- 123
Pathak, K. A., Azad Thakur, N. S., Rajasekhara Rao, K. and Shylesha, A. N.	2001	Insect pests of crops and their management in NEH Region. <i>In Steps for modernization of Hill Agriculture</i> . (Eds. N. D. Verma & B. P. Bhat)	ICAR Research Complex for NEH Region, Umaim 793 103, Meghalaya, India	pp. 121- 159.

12. Number of Technical Bulletins (Add list): ____6_____

Thakur NS, Shylesha AN & Rajasekhara Rao K	2004	Ka jingiada na ki khniang/ksainba pynduh ia ka soh bad ki kliar jingthung.	ICAR Research Complex for NEH Region, Meghalaya	20 pages
Shylesha, A.N., Azad Thakur, N.S., Pathak, K.A., Rao, K. R., Saikia, K., Suroshe, S., Kodandaram, M.H. and Kalaisekhar, A	2006	Integrated Management of Insect-Pests of Crops in North Eastern Hill Region, <i>Technical Bulletin No. 19,</i>	Division of Entomology, ICAR RC NEH Region, Umiam, Meghalaya.	50 pages
Rajasekhara Rao, K, Azad Thakur NS, & Naskar SK	2008	Ka jingiada na ki khniang/ksain ba pynduh bad pynjot ia ka soh bad kliar jingthung jong u phankaro (Integrated Management of sweetpotato weevil)	Regional Centre of CTCRI, Bhubaneswar, Orissa.	6 pages
Rajasekhara Rao, K, Naskar S K & A. Mukherjee	2008	Ka jingiada na ki khniang bad jingpang jong ki wang kaba ki khot ha ka ktien phareng ki Leaf blight (Integrated Management of colocasia leaf blight)	Regional Centre of CTCRI, Bhubaneswar, Orissa.	4 pages
Naskar S K, Rajasekhara Rao K and Mukherjee	2008	U Phankaro: U jingbam uba tei ia ka met (Sweetpotato a Nutrituous tuber),	Regional Centre of CTCRI, Bhubaneswar, Orissa	4 pages
Nedunchezhiyan M, A. Lanka, K Laxminarayana, K. Rajasekhara Rao	2012	Value addition in tuber Crops (ORIYA)	Regional Centre, CTCRI, Bhubaneswar	Folder

13. Consultancies offered (Add list and give a brief description):

- Consultant to Council for Advancement of People's Action and Rural Technology (CAPART), Govt of India for evaluating mid-term evaluation project under Awareness Generation on NREGS sanctioned to Women organization for Rural Development (WORD), Dist. Keonjhar, Orissa.

14. Technologies developed (Add list and give a brief description):

Category	Title	Year	Individual/ Collaborative	Additional Details/Information
Varieties	Identification of sweet potato weevil resistant germplasm i.e. <i>Howrah, BX-86, SB IB 400/22, C-14</i>	2008 to 2012	Collaborative	These lines are under testing at AICRP Tuber Crops during 2012 for their performance and weevil resistance.
Technology	Technology for Prevention of Citrus Fruit Drop	2003	Collaborative	Indian Horticulture Vol. 48 (3): 8-9, 2003.
	Technology for IPM of Ginger Stem	2004	Collaborative	Indian Horticulture Vol. 49 (3): 13 & 25, 2004.

	Borer			
	Technology for IPM of Citrus trunk borer using pheromone trap	2004	Individual	Executive Summary of Annual Report 2003-2004 by Director, ICAR RC NEH, Meghalaya
	Use of ITKs in Rice Gundhibug management in Meghalaya	2004	Individual	Page 19, Annual Report 2003-2004, ICAR RC NEH, Meghalaya.
	Transfer of Tuber Crop Technologies to North Eastern Region	2005 to 2010	Collaborative	Annual Report 2005-2006, Page 99, AR 2007-2008, Page 120, CTCRI.
Concepts	Use of female sex pheromone extract for monitoring the emergence of citrus trunk borer	2004	Individual	Page 2, Executive Summary, Annual Report 2003-2004, ICAR RC NEH, Meghalaya.
	Volatile Assisted Selection	2010	Collaborative	Volatile Assisted Selection of varieties for insect resistance, Current Science, Vol.99(11), 1597-1601p.
Products	Commercialization of sweet potato weevil sex pheromone with BCRL, Bangalore	2012	Collaborative	Sweet potato weevil pheromone was commercialized in collaboration with BCRL, Bangalore.

15. Patents/Copyrights obtained (Add list and give a brief description):

16. Any other information:

Recognitions & Awards		
Items of Recognition	Year	Awarding Organization
Norman E. Borlaug Science and Technology Fellowship Programme	2012	United States Department of Agriculture-Foreign Agricultural Service (USDA-FAS), Washington DC, USA.
Fellow of Society for Biocontrol Advancement (FSBA), Bangalore	2011	Society for Biocontrol Advancement, NBAIL (ICAR), Bangalore
Fellow of the Entomological Society of India (FESI), New Delhi	2008	The Entomological Society of India, IARI, New Delhi
DBT's Overseas Associateship Award 2005-2006 (Long Term)	2007	Dept of Biotechnology, Ministry of Science & Technology, Govt of India
Royal Dutch Fellowship	2004	NUFFIC, Govt of Netherlands
Funded Delegate Programme	2004	XXII International Congress of Entomology, Brisbane, Australia

Executive Committee member 2004-2005, Journal of Biological Control	2004-2005	Society for Biocontrol Advancement (Journal of Biological Control), NBAll, Bangalore
Editorial Board Member Annual Report 2001-2002, 2002-2003	2001-2003	ICAR Research Complex for NEH Region, Umiam, Meghalaya
Editorial Board Member, Annual Report 2008-2009	2008-2009	Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala.
Invited to deliver a lead lecture during National Symposium on 'Non-chemical Pest Management' on Feb 2-6, 2009	2009	Loyola College, Chennai
Invited to deliver a lead lecture "Current status and future strategies for use of pheromones in Management of Horticultural crops" (as a group leader for pheromones) during Interaction meet of Entomologists of Horticulture Division of ICAR, 10-11 th June 2009 at CISH, Lucknow	2009	CISH, Lucknow
Expert Member of <i>AgroMet Service</i> , Dept of Science & Technology, Short Range Weather Forecasting, ICAR RC NEH, Meghalaya.	2003	ICAR Research Complex for North Eastern Hill Region, Barapani, Meghalaya
Reviewer for journal " <i>Agricultura Tropica et Subtropica</i> "	2012	Institute of Tropics and Subtropics, Czech University of Life Sciences, Prague, Czech Republic
Reviewer for " <i>Current Science</i> " journal (7.8/10 NAAS rating)	2011	Indian Academy of Sciences, Bangalore.
Reviewer for " <i>Indian Journal of Agricultural Sciences</i> " (7.2/10 NAAS rating), New Delhi	2010	ICAR, New Delhi
Reviewer for " <i>American Journal of Experimental Agriculture</i> "	2012	American Journal of Experimental Agriculture, USA
Question setter for MSc. & Ph.D. for Orissa University of Agriculture & Technology (OUAT), Bhubaneswar	2011 and 2012	OUAT, Bhubaneswar ENT 510, ENT 519, ENT 612, ENT 609, ENT 610
External Examiner for Forest Entomology at OUAT, Bhubaneswar	Sept 18, 2012	External Examiner for Forest Entomology course of College of Forestry, OUAT, Bhubaneswar
External Examiner for Entomology Dept, OUATm Bhubaneswar	July 18-20, 2013	Course ENT 222
Invited to deliver a talk on " <i>Termite Management in Orchard and</i>	2012	Workshop on Perspectives of Termite Management 10July 2012, OUAT,

<i>Plantation Crops</i> at OUAT, Bhubaneswar		Bhubaneswar
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