

# Curriculum Vitae

**Dr. Gaurav Sharma, Scientist-E**  
**Officer-in-Charge & Head of Office, ZSI (MoEFCC), NRC, Dehradun**

1. Correspondence address: Zoological Survey of India (Ministry of Environment, Forest and Climate Change, Government of India), Northern Regional Centre, Kaulagarh Road, Dehradun, Uttarakhand, India. PIN-248195.
2. E-mail (s) and contact number (s) : E-mail: drgaurav.sharma@gov.in  
Ph.: 0135- 2754939  
Mob.: 08481071255.
3. Institution/affiliation : Zoological Survey of India (MoEFCC).
4. Date of Birth : 19<sup>th</sup> June, 1976.
5. Gender/Nationality : Male/ Indian.
6. Category : General.
7. Academic Qualification (Undergraduate Onwards):



Sr. No.	Exam Passed	Board/Univ.	Year of Passing	% of marks (Division)
1.	10	H.P. Board, Dharamsala	1991	69.71% (First)
2.	10+2	H.P. Board, Dharamsala	1993	63.25% (First)
3.	B.Sc.	H.P. Univ., Shimla.	1996	69.87% (First)
4.	M.Sc. Zoology	Kurukshetra Univ., Haryana	1998	69.20% (First)
5.	P.G.D. in Plantation Technology	Forest Research Institute (D.U.), Dehra Dun, U.K.	2000	71.55% (First)

## 8. Ph.D. thesis title, Guide's Name, Institute/Organization/ University, Year of Award:

**Title of Ph.D. thesis:** *Studies on the species diversity and reproductive behaviour of some species of Odonata of Dholbaha Dam (Distt. Hoshiarpur) in Punjab Shivalik (Punjab: India).*

**Institute/Organization/University:** Zoological Survey of India, Dehra Dun and Dept. of Zoology & Environ. Sciences, G.K. University, Haridwar, Uttarakhand.

**Supervisor:** Prof. P.C. Joshi, Dept. of Zoology & Environ. Sciences, G.K. University, Haridwar, Uttarakhand.

**Co-supervisor:** Dr. Arun Kumar, Former Scientist-F, Zoological Survey of India, Dehra Dun.

**Year of Award:** 2006.

## 9. Works Experience (in chronological order):

S. No.	Positions held	Name of the Institute	Period		Assignments/ Pay Scale
			from	to	
1.	Scientist-E	Zoological Survey of India, NRC, (MoEFCC), Dehradun, U.K.	20 <sup>th</sup> Feb., 2019	continue	Departmental faunal diversity/inventorization of Delhi, Uttarakhand, U.P., Haryana, Punjab and Chandigarh. Pay Level: L-13.
2.	Scientist-D	Zoological Survey of India, HARC,	27 <sup>th</sup> Oct., 2016	19 <sup>th</sup> Feb., 2019	Departmental faunal diversity, Status survey of Threatened Species

		(MoEFCC), Solan, H.P.			and Eco-sensitive Zone programme of H.P., Assam, U.P. and M.P. Pay Level: L-12
3.	Scientist-D	Zoological Survey of India HQ (MoEFCC), Kolkata, W.B.	1 <sup>st</sup> Jan., 2013	26 <sup>th</sup> Oct., 2016	Departmental faunal diversity, EIA, and Status survey programme of West Bengal, Rajasthan, Assam, U.P. and M.P. PB-3, Grade Pay-7600.
4.	Scientist-C	Zoological Survey of India HQ (MoEFCC), Kolkata, W.B.	30 <sup>th</sup> May, 2012	31 <sup>st</sup> Dec., 2012	Departmental faunal diversity and EIA programme of West Bengal, Rajasthan, Assam, U.P. and M.P. Pay Band: PB-3.
5.	Scientist-C	Zoological Survey of India (MoEFCC), DRC, Jodhpur, Rajasthan.	7 <sup>th</sup> January, 2008	29 <sup>th</sup> May, 2012	Departmental faunal diversity and EIA programme of Rajasthan and Gujarat. Pay Band: PB-3.
6.	Research Associate	Division of Entomology, Indian Agricultural Research Institute (ICAR), New Delhi	15 <sup>th</sup> Sept., 2006	5 <sup>th</sup> January, 2008	Programmes entitled “ <i>Systematic studies on the biodiversity of lepidopterous pests of vegetables</i> ” and “ <i>Network project on Insect Biosystematics</i> ”.
7.	Senior Research Fellow	Institute of Wood Science & Technology (ICFRE, MoEFCC) Bangaluru, K.A.	13 <sup>th</sup> Sept., 2004	12 <sup>th</sup> Sept., 2006	Programme entitled “ <i>Studies on the entomofaunal diversity and their interactions in selected provenances of sandal</i> ”.
8.	Junior Research Fellow	Zoological Survey of India, NRC (MoEFCC), Dehradun, U.K.	25 <sup>th</sup> July, 2000	9 <sup>th</sup> Sept., 2004	Programme entitled “ <i>Biodiversity in the Shivalik Ecosystem of Punjab, India</i> ”.
9.	Lecturer Zoology	D.A.V. College Banikhet, Distt-Chamba, H.P.	1 <sup>st</sup> Jan., 1999	5 <sup>th</sup> Aug., 1999	Taught theory and practical to B.Sc. classes and conducted environment awareness programmes.

## 10. Professional Recognition/Award/Prize/Certificate/Fellowship received by the applicant:

1. Nominated by The Secretary, MoEFCC, New Delhi as Country Representative of Government of India to participate in “**17<sup>th</sup> meeting of the Conference of the Parties to CITES (CoP17)**” at Johannesburg, South Africa from 23<sup>rd</sup> to 29<sup>th</sup> September, 2016.
2. Received Conoco Phillips Water and Biodiversity Stewardship Scholarship Award of \$2025.50 for participation in the “**Professional Training Programme on Species Monitoring and Conservation: Terrestrial Mammals**” Smithsonian-Mason School of Conservation, Virginia, USA from 09<sup>th</sup> – 20<sup>th</sup> May, 2016.
3. Nominated by The Secretary, MoEFCC, New Delhi as Country Representative of Government of India to participate in “**28<sup>th</sup> Meeting of Animal Committee CITES**” at Tel Aviv, Israel from 30<sup>th</sup> August, 2015 to 3<sup>rd</sup> September, 2015.
4. Selected as **Odonata group experts** for assessment of Odonates of Eastern Himalaya as per **IUCN Red Data listing of Threatened Species criteria** by IUCN Species Programme (Species

**Survival Commission) Cambridge, United Kingdom** and assessed 49 species of Odonata highlighted in IUCN Red Data listing website.

5. Received **Conference Participation Award** of **450 pound sterling**s from *Royal Entomological Society, London* to present oral paper in *Ento-07-International Symposium-Aquatic Insects: challenges to populations*, held at **University of Edinburgh, U.K.** from 16<sup>th</sup> to 18<sup>th</sup> July, 2007.
6. Received **Two Gold Medals** in “*VI & VII South Asian Symposium of Odonatology*” organized by *Societas Internationalis Odonatologica* (SIOROSA) affiliated to *Odonatologica, The Netherlands* held at Bhagalpur University on April 21-22, 2003 and at Hislop College, Nagpur on 9-11 January, 2006.
7. Two years *National Service Scheme Certificate* (1994-96) at G. P. G. College, Chamba, H.P.
8. *National Scholarship for talented students* from 8<sup>th</sup> class to 10+2 class.

## **11. Books Published:**

1. **Sharma, G.** 2015. *Pictorial handbook on Odonata (Damsel and Dragonflies) of Rajasthan*. Publication by Director, *Zool. Surv. India*, Kolkata. 264pp.
2. **Sharma, G.**, Kamalakannan, M and Venkataraman, K. 2015. *An identification Manual of Scheduled Mammals of India (Indian (Wildlife Protection Act, 1972))*. Published by Director, Zoological Survey of India. 64 pp and 48 plates.
3. Venkataraman, K., Sivaperuman, C., Subramanian, K.A., Maheswaran, G. and **Sharma, G.** 2015. *Raptors of India*. Published by Director, *Zool. Surv. India*, Kolkata. 1-82.
4. **Sharma, G.** 2014. *Studies on Odonata and Lepidoptera fauna of foothills of Aravalli Range, Rajasthan*. Published by the Director, *Zool. Surv. India. Rec. zool. Surv. India, Occ. Paper. 353*: 1-104.
5. Kankane, P.L., **Sharma, G.** and Venkataraman, K. 2014. Status survey of some Mammals in Gujarat with special reference to Chinkara and Desert Cat. Published by the Director, *Zool. Surv. India*, Kolkata. 302pp.
6. **Sharma, G.**, Kamalakannan, M. and Venkataraman, K. 2014. *A Checklist of Mammals of India with their distribution and conservation status.ZSI e-publication*. Published by the Director, *Zool. Surv. India*, Kolkata, India. 125 pp.
7. Bohra, P., **Sharma, G.** and Kumar, S. 2014. *Faunal Exploration of Sitamata Wildlife Sanctuary, Rajasthan*. Conservation Area Series. Edited and Published by the Director, *Zool. Surv. India*, Kolkata. **54**: 1-158.
8. **Sharma, G.** and Kankane, P.L. 2012. *Booklet on Fauna of Ecosystems of India: Thar Desert*. Special Publication Series on the occasion of CBD CoP-11, 2012, India. Published by the Director, *Zool. Surv. India*, Kolkata. pp. 1-18.

9. Ramakrishna, Chandra, K., Bohra, P. and **Sharma, G.** (Eds). 2010. *Impact of climate change on biodiversity and challenges in Thar Desert- Proceedings of National Seminar, ZSI, DRC, Jodhpur*. Published by Director, Zoological Survey of India, Kolkata. 384pp.

## **12. Publications (List of Papers published in SCI/National/International Journals, in year wise descending order):**

1. **Sharma, G.** 2018. Studies on the Mammalian Diversity of Kaziranga National Park, Assam, India with their conservation status. *Journal on New Biological Reports*. **7**(1): 15-19.
2. **Sharma, G.**, Dhatwalia, N. and Ram, K. 2017. Studies on the Mammalian diversity of Great Himalayan National Park, Himachal Pradesh, India. *International Journal of Theoretical and applied Sciences*. **9**(2): 274-277.
3. **Sharma, G.** 2017. Studies on the Mammalian diversity of Kanha National Park, M.P. *Biological Forum-an International Journal*. **9**(2): 201-203.
4. **Sharma, G.**, Kamalakannan, M., Guha, S., Chakraborty, B., Singh, K.K. and Dam, D. 2017. Studies on the Mammalian diversity of Dudhwa National Park, Uttar Pradesh, India. *Bio Bulletin*. **3**(2): 54-56.
5. **Sharma, G.** and Kamalakannan, M. 2017. Tricho-taxonomic studies for identification of the Indian pangolin, *Manis crassicaudata* E. Geoffroy, 1803 and Chinese pangolin, *Manis pentadactyla* Linnaeus, 1758 (Manidae: Pholidata). *Biological Forum– An International Journal*. **9**(2): 118-121.
6. **Sharma, G.** 2017. Studies on the Reproductive Behaviour of Dragonfly, *Pantala flavescens* (Fabricius, 1798) (Odonata: Insecta: Arthropoda) in Aravalli Range and Desert Ecosystem of Rajasthan, India. *Bio Bulletin*. **3**(1): 67-73.
7. **Sharma, G.**, Kamalakannan, M., Manna, C.K. and Debashree, D. 2016. Tricho-taxonomic studies for identification of Wild Boar, *Sus scrofa* Linnaeus, 1758 by dorsal guard hairs (Suidae: Artiodactyla: Mammalia). *Rec. zool. Surv. India*. **116**(3): 301-306.
8. **Sharma, G.**, P. Girish Kumar and Rajiv K. Gupta. 2016. Studies on diversity of Bees (Apoidea: Hymenoptera: Insecta) from Sunderbans Biosphere Reserve including fourteen new distributional records of Bees species from West Bengal, India. *Bio Bulletin*. **2**(1): 40-47.
9. **Sharma, G.**, Kamalakannan, M., Manna, C.K. and Debashree, D. 2016. Tricho-taxonomic studies for Identification of Indian Cervids, *Axis axis* (Erxleben, 1777), *Axis porcinus* Zimmermann, 1780, *Muntiacus muntjak* Zimmermann, 1780 and *Rusa unicolor* (Kerr, 1792) (Artiodactyla: Mammalia) by Dorsal Guard Hairs. *Biological Forum– An International Journal*. **8**(2): 162-167.
10. P. Girish Kumar and **Sharma, G.** 2015. New records of hairy wasps (Hymenoptera: Scoliidae) from Diu, India. *Records of Zoological Survey of India*. **115**(1): 127-130

11. Parbati Chatterjee, P. Girish Kumar and **Sharma, G.** 2015. Description of *Deiphobe incisa* Werner, 1933 (Mantodea: Insecta) from Thar Desert, Rajasthan, India with notes on some variation. *Prommalia*. **3**: 44-50.
12. P. Girish Kumar and **Sharma, G.** 2015. Taxonomic studies on vespid wasps (Hymenoptera: Vespoidea: Vespidae) of Chhattisgarh. *Journal of Threatened Taxa*, **7**(14): 8096-8127.
13. Rajiv K. Gupta, **Sharma, G.** and P. Girish Kumar. 2015. Description of *Braunsapis chandrai* a new species of genus *Braunsapis* Michener (Hymenoptera, Apoidea, Apidae: Xylocopinae: Allodapini) from Sunderbans in West Bengal, India. *Journal of Environment & Biosciences*. **29**(2): 373-375.
14. Kamalakannan, M. and **Sharma, G.** 2015. Tricho-taxonomic studies for identification of two Indian antelope species Blackbuck, *Antelope cervicapra* (Linnaeus, 1758) and Indian Gazelle or Chinkara, *Gazella bennettii* (Sykes, 1831) by dorsal guard hairs. *Bio Bulletin*. **1**(1): 1-6.
15. Kumar, P. G., J.M. Carpenter and **Sharma, G.** 2014. A review of the genus *Paraleptomenes* Giordani Soika, 1970 (Hymenoptera: Vespidae: Eumeninae: Odynerini) from the Indian subcontinent, with the description of a new species from the eastern Himalayas. *Zootaxa*. **3802**(1): 131-143.
16. Kumar, Girish P. and **Sharma, G.** 2014. A review of the little known genus *Orancistrocerus* van der Vecht (Hymenoptera: Vespidae: Eumeninae) from the Indian subcontinent. *Hexapoda (Insecta indica)*. **19**(2): 14-22.
17. Kumar, P. G. and **Sharma, G.** 2014. Taxonomic studies on vespid wasps (Vespidae: Vespoidea: Hymenoptera: Insecta) of Rajasthan, India with six new records from the state. *Journal on New Biological Reports*. **3**(3): 240-258.
18. Kumar, P. G., Mazumdar, P.C. and **Sharma, G.** 2014. A review of the genus *Chlorion* Latrielle, 1802 (Hymenoptera: Sphecidae) from the Indian subcontinent. *Records of Zoological Survey of India*. **114**(3): 371-378.
19. Kumar, P. G. and **Sharma, G.** 2014. Taxonomic studies on vespid wasps (Hymenoptera: Vespoidea: Vespidae) of Sunderbans Biosphere Reserve, West Bengal, India Part 1. *Records of Zoological Survey of India*. **114**(4): 563-580.
20. **Sharma, G.**, Kamalakannan M., Dam, D. and Husain, A. 2014. Status and Conservation of Mammalian Diversity in Indian Himalaya. *Biological Forum– An International Journal*. **6**(2): 284-310.
21. Kumar, P. G. and **Sharma, G.** 2014. Studies on a collection of aculeate Hymenoptera from Nayachar Island, West Bengal. *Zoo's Print*. **29**(4): 22-26.
22. Kumar, P. Girish and **Sharma, G.** 2013. Scoliid fauna (Insecta: Hymenoptera: Scoliidae) of Chhattisgarh. *Bugs R All, Newsletter of the Invertebrate Conservation & Information Network of South Asia*. **20**: 31-35.

23. Kumar, Girish P. and **Sharma, G.** 2013. A taxonomic study on the genus *Rhynchium* Spinola (Hymenoptera: Vespidae: Eumeninae) from the Indian Subcontinent. *Rec. zool. Surv. India.* **113**(2): 105-122.
24. **Sharma, G.** 2013. A review on the studies on faunal diversity, status, threats and conservation of Thar Desert or Great Indian Desert Ecosystem. *Biological Forum-An International Journal.* **5**(2): 81-90.
25. Husain, A., Husain, H.J. and **Sharma, G.** 2012. New Records of Dragonflies (Insecta: Odonata: Anisoptera) From Chhatarpur District, Bundelkhand, Madhya Pradesh, India with their Conservation Status and Distribution. *Journal on New Biological Reports.* **1**(1): 12-16.
26. R. Sundararaj and **Sharma, G.** 2012. Species diversity of Coccinellids (Coleoptera: Coccinellidae) in selected provenances of Sandal (*Santalum album* Linn.) and their role in pest control. *Biological Forum-An International Journal*, Spl. Iss. **4**(1): 13-16.
27. Suri Babu, B. and **Sharma, G.** 2012. On some aspects of Territoriality and Reproduction of *Pseudagrion microcephalum* (Rambur) (Insecta: Odonata: Zygoptera: Coenagrionoidea). *Biological Forum-An International Journal*, Spl. Iss. **4**(1): 25-31.
28. Husain, A. and **Sharma, G.** 2012. The Great Indian Bustard: Rare sightings with its general account. *Biological Forum-An International Journal*, Spl. Iss. **4**(1): 70-73.
29. Husain, A. and **Sharma, G.** 2012. Odonates of Arabian and Indian Deserts and their conservation status. *Biological Forum-An International Journal*, Spl. Iss. **4**(1): 74-91.
30. **Sharma, G.** 2011. Studies on diversity, status and conservation of damselflies and dragonflies in four protected habitats of Aravalli Range of Rajasthan and their role as biological control agents. *Journal of Insect Science.* **24**(spl. Issue): 45-50.
31. Sundararaj, R. and **Sharma, G.** 2011. Parasitoids of Scales and Mealybugs (Coccoidea: Hemiptera) infesting Sandal (*Santalum album* Linnaeus) in South India. *Annals of Forestry- An International Journal of Forest Sciences.* **19**(1): 150-156.
32. **Sharma, G.** 2011. Studies on Lepidopterous insects associated with vegetables in Aravalli Range, Rajasthan, India. *Biological Forum- An International Journal.* **3**(1): 21-26.
33. **Sharma, G.** 2011. Studies on the reproductive behaviour of *Pseudagrion rubriceps rubriceps* Selys (Odonata: Arthropoda) at Pichhola lake, Udaipur, Rajasthan, India. *Hexapoda.* **18**(2): 150-154.
34. Sharma, K.C., Bhardwaj, S. C. and **Sharma, G.** 2011. Systematic studies, Life history and infestation by *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae) on Tomato in Semi Arid Region of Rajasthan. *Biological Forum- An International Journal.* **3**(1): 52-56.
35. **Sharma, G.** and Sundararaj, R. 2011. Association of Ants and honeydew producing sucking pests in Bangalore Provenance of Sandal (*Santalum album* Linn.). *Biological Forum-An International Journal.* **3**(2): 62-64.

36. **Sharma, G.** 2010. Studies on the floral composition in the six selected provenances of Sandal (*Santalum album* Linnaeus) of South India. *Biological Forum-An International Journal*. **2**(2): 73-77.
37. Mitra, A., Dow, R., Subramanian, K.A. and **Sharma, G.** 2010. The status and distribution of dragonflies and damselflies (Odonata) of the Eastern Himalaya. In: *The Status and Distribution of Freshwater Biodiversity in the Eastern Himalaya* (Allen, D.J., Molur, S., Daniel, B.A. (Compilers). **The IUCN Red List of Threatened Species. Published by IUCN, Cambridge, UK and Gland, Switzerland.** pp. 54-66.
38. **Sharma, G.** 2010. Studies on the reproductive behaviour of *Ischnura aurora* (Brauer) (Odonata: Insecta) around Dholbaha Dam (Punjab Shivalik), India. *Biological Forum- An International Journal*. **2**(1): 6-8.
39. **Sharma, G.** and Joshi, P.C. 2010. Species composition of butterflies (Lepidoptera: Insecta) from Dholbaha dam in Punjab Shivaliks, India. *Journal of Environment and Bio-Sciences*. **24**(1): 81-85.
40. Kumar, R., Ramamurthy, V.V. and **Sharma, G.** 2010. Checklist of insects associated with Jamun (*Syzygium cuminii* Skeels) from India. *Biological Forum- An International Journal*. **2**(1): 1-5.
41. **Sharma, G.** 2010. Studies on Odonata and Lepidoptera (Insecta: Arthropoda) fauna of Mount Abu, Rajasthan, India. *Hexapoda*. **17**(2): 136-141.
42. **Sharma, G.** and Ramamurthy, V.V. 2010. An update on the insect fauna listed under the Indian Wildlife (Protection) Act, 1972. *Hexapoda*. **17**(2): 119-135.
43. **Sharma, G.**, Joshi, P.C., Kumar, R. and Vasu, D. 2009. Floral diversity and limnological studies in and around Dholbaha dam (Punjab Shivalik, India). *Biological Forum- An International Journal*. **1**(1): 22-31.
44. Kumar, R., **Sharma, G.**, Kumar, N. and Ramamurthy, V.V. 2009. Taxonomic studies on vegetable pests of Family Pieridae (Lepidoptera) from North India. *Biological Forum- An International Journal*. **1**(1): 89-97.
45. **Sharma, G.** 2009. Life history and Reproductive behaviour of *Ceriagrion coromandelianum* (Fabricius) (Odonata: Insecta). *Annals of Forestry-An International Journal of Forest Sciences*. **17**(2): 298-310.
46. **Sharma, G.**, Ramamurthy, V.V. and Kumar, R. 2009. Collection of damselflies and dragonflies (Odonata: Insecta) in National Pusa Collection, Division of Entomology, Indian Agricultural Research Institute, New Delhi, India. *Biological Forum- An International Journal*. **1**(2): 106-109.
47. **Sharma, G.** and Kumar, A. 2008. Odonata diversity of Punjab Shivalik with their habitats and flight period. *Fraseria- South Asian Bulletin of Odonatology*. **7**(1/2): 29-33.

48. **Sharma, G.**, Kumar, R., Pathania, P.C. and Ramamurthy, V.V. 2008. Biodiversity of lepidopterous insects associated with vegetables in India– A study. *Indian Journal of Entomology*. **70**(4): 369-384.
49. Kumar, R., **Sharma, G.** and Ramamurthy, V.V. 2008. Biosystematics of *Psara basalis* Walker (Lepidoptera: Crambidae: Spilomelinae) on Spinach. *Indian Journal of Entomology*. **70**(4): 408-410.
50. **Sharma, G.**, Sundararaj, R. and Karibasavaraja, L.R. 2008. Species diversity of odonates (Odonata: Insecta) in sandal rich ecosystem of Karnataka and reproductive behaviour of *Orthetrum pruinosum neglectum* (Rambur). *Fraseria- South Asian Bulletin of Odonatology*. **7**(1/2): 35-40.
51. **Sharma, G.** 2009. Studies and Status of damselflies and dragonflies (Odonata: Insecta) of Arid and Semi-Arid region of India. *Hexapoda*. **16**(1): 36-39.
52. Sundararaj, R., Karibasavaraja, L.R., **Sharma, G.** and Muthukrishnan, R. 2008. Hemipteran fauna (Insecta) infesting Sandal *Santalum album* Linn. in Southern India. *J. Bombay Nat. Hist. Soc.* **105**(2): 223-226.
53. Sundararaj, R. and **Sharma, G.** 2008. Species diversity of spiders in some selected provenances of sandal (*Santalum album* Linn.) in south India. *Annals of Forestry: An International Journal of Forest Sciences*. **16**(1): 124-128.
54. **Sharma, G.**, Sundararaj, R. and Karibasavaraja, L.R. 2007. Species diversity of Odonata in the selected provenances of sandal in India. *Zoos' Print Journal*. **22**(7): 2765-2767.
55. **Sharma, G.**, Kumar, R., Ramamurthy, V.V. and Kumar, N. 2007. Biosystematics studies of *Junonia orithya* Linnaeus (Lepidoptera: Nymphalidae) from North India. *Indian Journal of Entomology*. **69**(3): 224-229.
56. Karibasavaraja, L.R., Sundararaj R., and **Sharma, G.** 2007. Orthopteran (Orthoptera: Insecta) diversity in selected sandal provenances of South India. *Indian Journal of Tropical Biodiversity*. **15**(2): 144-147.
57. Sundararaj R., **Sharma, G.** and Karibasavaraja, L.R. 2007. A checklist of Parasitic and predatory groups of insects in sandal (*Santalum album* Linn.) ecosystem. *Annals of Forestry: An International Journal of Forest Sciences*. **15**(1): 137-144.
58. **Sharma, G.**, Kumar, R., Ramamurthy, V.V. and Kumar, N. 2007. Major lepidopterous insect pests of vegetables in North India. *Indian Journal of Entomology*. **69**(2): 189-195.
59. **Sharma, G.** and Joshi, P.C. 2007. Diversity of Odonata (Insecta) from Dholbaha dam (Distt.) Hoshiarpur) in Punjab Shivalik, India. *Journal of Asia-Pacific Entomology, Korea*. **10**(2): 177-180.



60. Sundararaj, R., **Sharma, G.** and Karibasavaraja, L.R. 2006. Insects associated with sandal (*Santalum album* Linn.)- a checklist. *Annals of Forestry: An International Journal of Forest Sciences*. **14**(1): 121-168.
61. **Sharma, G.**, Karibasavaraja, L.R. and Sundararaj, R. 2006. Diversity of mantids (Mantodea: Insecta) in the selected sandal provenances in south India. *Hexapoda*. **13**(1 & 2): 43-46.
62. **Sharma, G.**, Sundararaj, R. and Karibasavaraja, L.R. 2006. Diversity and monthly abundance of butterflies (Lepidoptera: Insecta) in sandal dominated ecosystem of Karnataka. *Hexapoda*. **13**(1 & 2): 28-37.
63. Sundararaj, R., Karibasavaraja, L.R., **Sharma, G.** and Muthukrishnan, R. 2006. Scales and mealybugs (Coccoidea: Hemiptera) infesting sandal (*Santalum album* Linn.). *Entomon*. **31**(3): 239-241.

### 13. Papers/Chapters Published in Books:

1. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Guru Ghasidas National Park, Chhattisgarh. In: "Fauna of Guru Ghasidas National Park, Chhattisgarh" (Eds. Chandra, K. & Boaz, A.A.) pp. 1-534. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 494-519.
2. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Udanti Sitanadi Tiger Reserve, Chhattisgarh. In: "Fauna of Udanti Sitanadi Tiger Reserve, Chhattisgarh" (Eds. Chandra, K. & Boaz, A.A.) pp. 1-414. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 380-401.
3. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Badalkhol Wildlife Sanctuary, Chhattisgarh. In: "Fauna of Badalkhol Wildlife Sanctuary, Chhattisgarh" (Eds. Chandra, K. & Boaz, A.A.) pp. 1-398. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 364-385.
4. Raha, A., Sharma, G. and Chandra, K. 2018. Vertebrata-Mammalia of Korba District, Chhattisgarh. In: "Faunal diversity of Korba District, Chhattisgarh" (Eds. Chandra, K. & Boaz, A.A.) pp. 1-413. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 378-397.
5. Chandra, K., Sharma, G., Raha, A., Gupta, R.P. and Mazumder, A. 2018. Vertebrata-Mammalia of Bastar District, Chhattisgarh. In: "Faunal diversity of Bastar District, Chhattisgarh" (Eds. Chandra, K. & Boaz, A.A.) pp. 1-706. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 658-683.
6. Chandra, K., Sharma, G., Raha, A., Gupta, R.P. and Mazumder, A. 2018. Vertebrata-Mammalia of Bilaspur District, Chhattisgarh. In: "Faunal diversity of Bilaspur District,

- Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-542. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 502-525.
7. Chandra, K., Sharma, G., Raha, A., Gupta, R.P. and Mazumder, A. 2018. Vertebrata-Mammalia of Dung District, Chhattisgarh. In: “Faunal diversity of Dung District, Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-414. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 384-399.
  8. Chandra, K., Sharma, G., Raha, A. and Gupta, R.P. 2018. Vertebrata-Mammalia of Kabirdham District, Chhattisgarh. In: “Faunal diversity of Kabirdham District, Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-494. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 460-479.
  9. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Barnawapara Wildlife Sanctuary, Chhattisgarh. In: “Faunal diversity of Barnawapara Wildlife Sanctuary, Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-598. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 560-579.
  10. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Achanakmar Tiger Reserve, Chhattisgarh. In: “Fauna of Achanakmar Tiger Reserve, Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-486. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 450-469.
  11. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Surguja District, Chhattisgarh. In: “Faunal diversity of Surguja District, Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-477. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 438-459.
  12. Chandra, K., Sharma, G., Raha, A. and Mazumder, A. 2018. Vertebrata-Mammalia of Gomarda Wildlife Sanctuary, Chhattisgarh. In: “Fauna of Gomarda Wildlife Sanctuary, Chhattisgarh” (Eds. Chandra, K. & Boaz, A.A.) pp. 1-342. Published by The SFR&TI, Forest Department, Chhattisgarh and ZSI. pp. 310-331.
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  14. Srivatsava, J.P., **Sharma, G.** and Kamalakannan, M. 2015. Mammals of Uttar Pradesh. In: *Fauna of Uttar Pradesh. State Fauna Series.* Published by the Director, Zool. Surv. India. **22(2):** 111-130.
  15. **Sharma, G.** and Dhadeech, S.N. 2014. *Insecta: Lepidoptera: Rhopalocera.* In: Faunal Exploration of Sitamata Wildlife Sanctuary, Rajasthan. Conservation Area Series. Published by the Director, *Zool. Surv. India, Kolkata.* **54:** 51-67.

16. **Sharma, G.** 2014. *Insecta: Odonata*. In: Faunal Exploration of Sitamata Wildlife Sanctuary, Rajasthan. Conservation Area Series. Published by the Director, *Zool. Surv. India*, Kolkata. **54**: 37-50.
17. Gaur, S. and **Sharma, G.** 2013. Herpetofauna of Kumbhalgarh Wildlife Sanctuary. In: *Kumbhalgarh Wildlife Sanctuary, Conservation Area Series*. Published by Director, *Zool. Surv. India*. **47**: 67-72.
18. **Sharma, G.** and Dhadeech, S.N. 2013. Insecta: Lepidoptera: Rhopalocera of Kumbhalgarh Wildlife Sanctuary. In: *Kumbhalgarh Wildlife Sanctuary, Conservation Area Series*. Published by Director, *Zool. Surv. India*. **47**: 43-50.
19. **Sharma, G.** 2013. Insecta: Odonata of Kumbhalgarh Wildlife Sanctuary. In: *Kumbhalgarh Wildlife Sanctuary, Conservation Area Series*. Published by Director, *Zool. Surv. India*. **47**: 31-42.
20. De, J.K. and **Sharma, G.** 2013. Endemic Mammals of India. In: Endemic Animals of India (Vertebrates), Eds. Venkataraman, K., Chattopadhyay and Subramanian, K.A. Published by Director, *Zool. Surv. Ind.*, Kolkata. pp. 229-238.
21. Husain, Akhlaq and **Sharma, G.** 2012. Studies on diversity of Fishes, Amphibians and Reptiles of Thar Desert with conservation status. In: *Deserts: Fauna, Flora and Environment*. Editors: J. C. Guevara, E. G. Grunwaldt and C. Sivaperuman. *Nova Science Publishers, Inc., New York, USA*. pp. 23-52.
22. **Sharma, G.** 2012. Studies on the faunal diversity and government efforts for conservation of Tigers at Sariska Tiger Reserve, Rajasthan. In: "*Proceedings of National Conference on Prospects and Challenges in field of Applied Zoology*" held at Lachoo Memorial College of Science & Technology, Jodhpur. pp. 43-48.
23. **Sharma, G.** 2012. Studies on the reproductive behaviour of *Pseudagrion rubriceps* Selys (Odonata: Arthropoda) at Gyan Sarovar, Mount Abu, Rajasthan, India. In: *Recent Advances in Biodiversity of India*. Eds.: C. Raghunathan, C. Sivaperuman and K. Venkataraman. Published by Director, *Zool. Surv. India*, Kolkata. pp. 251-255.
24. **Sharma, G.** 2011. Studies on the faunal diversity of Rajasthan and Gujarat state by the Desert Regional Centre, Zoological Survey of India, Jodhpur from 1960 to 2010 and discovery of new species. In: *Proceedings of National Symposium on Invertebrates for Biomonitoring Ecosystem Health* held at Hislop College, Nagpur on 17-18 January, 2011. pp. 51-74.
25. **Sharma, G.** 2010. A review on the studies of Damselflies and Dragonflies (Odonata: Insecta) in the world. In: *Advancement in Invertebrate Taxonomy and Biodiversity* (Ed. Gupta, R.) 560pp. Published by Agrobios (International), Jodhpur. pp. 373-416.
26. **Sharma, G.** 2010. Status of Butterflies, their protection under Indian Wildlife (Protection) Act, 1972 and their conservation in India. In: *Advancement in Invertebrate Taxonomy and*

- Biodiversity* (Ed. Gupta, R.) 560pp. Published by Agrobios (International), Jodhpur. pp. 349-372.
27. Ramamurthy, V.V. and **Sharma, G.** 2010. Impact of climate change in the North West Himalayas on Entomofauna and on Agroecosystem- a view. In: *Proceedings of National Seminar on Impact of Climate Change on Biodiversity and Challenges in Thar Desert* (Eds. Ramakrishna, Chandra, K., Bohra, P. and Sharma, G.) held at ZSI, DRC, Jodhpur on 9<sup>th</sup> July, 2010. pp. 8-19.
  28. **Sharma, G.** and Dhadeech, S.N. 2010. Studies on Damselflies and Dragonflies (Odonata: Insecta) in and around Thar Desert at Osian, Jodhpur, Rajasthan, India. In: *Proceedings of National Seminar on Impact of Climate Change on Biodiversity and Challenges in Thar Desert* (Eds. Ramakrishna, Chandra, K., Bohra, P. and Sharma, G.) held at ZSI, DRC, Jodhpur on 9<sup>th</sup> July, 2010. pp. 195-197.
  29. **Sharma, G.** 2010. Studies on the diversity of Damselflies and Dragonflies (Odonata: Insecta: Arthropoda) in and around Mount Abu Wildlife Sanctuary and on the reproductive behaviour of selected species. In: *Proceedings of National Seminar on Impact of Climate Change on Biodiversity and Challenges in Thar Desert* (Eds. Ramakrishna, Chandra, K., Bohra, P. and Sharma, G.) held at ZSI, DRC, Jodhpur on 9<sup>th</sup> July, 2010. pp. 339-342.
  30. **Sharma, G.** 2010. Insecta: Odonata. Fauna of Ranthambhore National Park, Rajasthan. ZSI, *Conservation Area Series*. (Pub.: Director, Zool. Surv. India, Kolkata). **43**: 67-74.
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  32. Sundararaj, R., Karibasavaraja, L.R. and **Sharma, G.** 2007. Predatory and parasitic complex of sandal insect pests with special reference to sucking pests. In: *Plant Protection Association of India: Proceedings of National conference on Organic waste utilization and eco-friendly technologies for crop protection*. pp. 244-249.
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  34. Kumar, A., Nautiyal, A.K. and **Sharma, G.** 2006. Odonata. In: *Biodiversity in the Shivalik ecosystem of Punjab*. (Eds: Jerath *et al.* PSCST, Chandigarh). Published by Bishen Singh Mahendra Pal Singh, Dehra Dun. pp. 419-427.
  35. Kumar, A. and **Sharma, G.** 2004. Insecta: Odonata. *Some selected fauna of Govind Pashu Vihar, Conservation Area Series, Zool. Surv. India*. (Pub.: Director, Zool. Surv. India, Kolkata). **18**: 5-8.

36. Kumar, A. and **Sharma, G.** 2003. Insecta: Odonata. In: *Fauna of Asan wetland. Wetland Ecosystem Series, Zool. Surv. India.* (Pub.: Director, Zool. Surv. India, Kolkata). **5**: 11-13.
37. Kumar, A. and **Sharma, G.** 2002. Odonata. In: *Fauna of Asola-Bhatti Wildlife Sanctuary. Fauna of Conservation Area, Zool. Surv. India.* (Pub.: Director, Zool. Surv. India, Kolkata). **2**: 21-23.

#### **14. Participated and delivered lectures in Conferences/Seminars:**

1. **Sharma, G.** 2019. Studies on the Faunal diversity *w.s.r.* to Insect Diversity in India. In: the *Research Seminar on Current Challenges in the Management of Forest Insect Pests and Diseases*, held at Forest Research Institute (ICFRE), Dehradun on 27<sup>th</sup> June, 2019.
2. **Sharma, G.** 2018. Studies on the Faunal diversity with *s.r.t.* Mammalian Diversity and their conservation in India. In: the *proceedings of Multidisciplinary International Conference on Green Earth: A Panoramic view*, held at Mumbai on 12<sup>th</sup> & 13<sup>th</sup> January, 2018. pp.16-23.
3. **Sharma, G.** 2016. “*Studies on the species diversity, status and conservation of Mammals in India*” lecture delivered to delegates during “*National Training Workshop on Fauna of Hotspots-3: Eastern Himalaya*” held at NERC, ZSI, Shillong on 17<sup>th</sup> March, 2016.
4. **Sharma, G.** 2016. “*Mammalian diversity in India w.s.r. to Schedule Mammals of India*” lecture delivered during “*Training workshop on Faunal Diversity, Conservation and role of Media*” organized by ZSI, Kolkata for Media persons on 14<sup>th</sup> March 2016.
5. **Sharma, G.** 2016. “*Studies on the species diversity, status and conservation of Mammals in India*” lecture delivered to delegates of “*National Training workshop on Fauna of Hotspots-2: Western Himalaya*” organized by HARC, ZSI, Solan on 24<sup>th</sup> July, 2015.
6. **Sharma, G.** 2014. “*Comparative studies on species diversity, status and conservation of Damselflies and Dragonflies (Odonata: Insecta: Arthropoda) of Aravalli Range and Thar Desert of Rajasthan, India*” in the “*First National training programme on Odonatology*” held at Hislop College, Nagpur on 18<sup>th</sup> August, 2014.
7. **Sharma, G.** 2014. “*Studies on the species diversity, status and conservation of Mammals in India*” in the “*The 8<sup>th</sup> Indian Symposium of Odonatology and Tropical Biodiversity*” held at Hislop College, Nagpur on 17<sup>th</sup> August, 2014.
8. **Sharma, G.** 2014. “*Studies on the Faunal diversity, livelihood, threats and conservation in the Thar Desert of Rajasthan*” in the “*National Conference on Biodiversity (NCB-2014): Issues, Concerns and Future Strategies*” organised by West Bengal Biodiversity Board at Science City, Kolkata on 18<sup>th</sup> January, 2014.
9. **Sharma, G.** 2014. “*Status and conservation of Insect Diversity of India with special reference to Odonata (Damsel and Dragonflies) and Lepidoptera (Butterflies) diversity and threats to habitats*” in the “*National Conference on Recent Trends in Applied Entomology (NCRTAE*

2014)'' organised by Lachoo Memorial College of Science and Technology, Jodhpur, Rajasthan on 10<sup>th</sup> January, 2014.

10. **Sharma, G.** 2013. Status and conservation of Faunal Diversity of India with special reference to Mammalian diversity in Himalaya'' in ''*National Conference on Status and Conservation of Biodiversity in India with special reference to Himalaya*'' held at University of Kashmir, Srinagar from 4<sup>th</sup>-5<sup>th</sup> October, 2013.
11. **Sharma, G.** 2012. Studies on the diversity of selected groups of fauna in and around Bikaner, Rajasthan. In: ''*XXIII National Symposium on Chronobiology and Seminar on Diversity and Physiology of Desert Fauna*'' held at Dept. of Zoology, J.N.V. University, Jodhpur from 1-3 March, 2012. pp. 76-77.
12. **Sharma, G.** 2012. Studies on the species diversity of Odonata and Lepidoptera (Insecta: Arthropoda) of Aravalli Range, Rajasthan, India. In: *International Conference on Entomology* held at Panjabi University, Patiala, Panjab from 17-19 Feb., 2012.
13. **Sharma, G.** 2012. *Studies on the faunal diversity and government efforts for conservation of Tigers at Sariska Tiger Reserve, Rajasthan.* In: ''*National Conference on prospects and challenges in field of applied zoology*'' held at Lachoo Memorial College of Science & Technology, Jodhpur, Rajasthan from 12-13 January, 2012. p. 12.
14. **Sharma, G.** 2011. Diversity, Conservation and Status of Damselflies and Dragonflies (Odonata: Insecta: Arthropoda) in India. In: ''*International Conference on Advances in Ecological Research*'' held at Maharaja Ganga Singh University, Bikaner from 19-21 December, 2011. pp. 21-22.
15. **Sharma, G.** 2011. Studies on the reproductive behaviour of *Trithemis festiva* (Rambur) at Fateh Sagar Lake, Udaipur, Rajasthan. In: ''*National Seminar on Biodiversity and Intangible Natural Heritage*'' organized by Zoological Survey of India in collaboration with National Museum of Natural History held at ZSI, DRC, Jodhpur on 28<sup>th</sup> Sept., 2011. pp.26-27.
16. **Sharma, G.** 2012. Use of Bioinformatics and Computational Biology techniques in study of Insects-A view. In: ''*National Conference on Bioinformatics and Computational Biology*'' held at Lachoo Memorial College of Science and Technology, Jodhpur from 23-24 Sept., 2011.
17. **Sharma, G.** 2011. Studies on Lepidopterous insects associated with vegetables in Aravalli Range, Rajasthan. In ''*3<sup>rd</sup> Congress on Insect Science on Pest Management for food security and environmental Health*'' (Extended abstracts) held at Punjab Agricultural University, Ludhiana from 18-20 April, 2011. p.30.
18. **Sharma, G. and Vashistha, S.** 2011. Studies on reproductive behavior of dragonfly, *Orthetrum glaucum* (Brauer) (Odonata: Insecta) at Gyan Sarover, Mount Abu, Rajasthan. *National Symposium on Invertebrates for Biomonitoring Ecosystem Health* held at Hislop College, Nagpur on 17-18 January, 2011. pp. 129-130.

19. **Sharma, G.**, Bohra, P., Sewak, R. and Kankane, P. L. 2011. Studies on Faunal diversity in Hadla Rawaleton, Hadla Bhatiyani and Mokha Lignite Block, District Bikaner, Rajasthan. *National Conference on Animal Science: Innovation & prospectives* held at Department of Zoology, Jai Narayan Vyas University, Jodhpur. pp. 10-11.
20. **Sharma, G.** 2010. Studies on the Reproductive Behaviour of *Disparoneura quadrimaculata* (Rambur) (Odonata: Insecta) at Gyan Sarover, Mount Abu, Rajasthan, India. *National Seminar on Impact of Climate Change on Biodiversity and Challenges in Thar Desert* held at ZSI, DRC, Jodhpur on 9<sup>th</sup> July, 2010. pp. 113-114.
21. **Sharma, G.** 2009. Studies on the diversity of Damselflies and Dragonflies (Odonata: Insecta: Arthropoda) in and around Mount Abu Wildlife Sanctuary and on the reproductive behaviour of selected species. "*International Conference on Nurturing Arid Zones for People and the Environment: Issues & Agenda for 21<sup>st</sup> Century*" held at Central Arid Zone Research Institute (ICAR), Jodhpur from 24<sup>th</sup> -28<sup>th</sup> Nov., 2009. pp. 175-176.
22. **Sharma, G.** 2009. Studies on the diversity of Odonata and Lepidoptera fauna of Mount Abu, Rajasthan, India. *National Symposium on Recent Advances in Biodiversity of Indian Subcontinent* on March 11-13, 2009 at Port Blair, Andaman. pp. 14.
23. **Sharma, G.** and Ramamurthy, V.V. 2008. Law to protect entomofauna in India. "*Ento-08-International Symposium*" organized by *Royal Entomological Society, London* held at University of Plymouth on from 3-5 Sept., 2008.
24. **Sharma, G.** 2008. *Diversity analysis of Odonata fauna of Arid and Semi-Arid region of India and their role as biological control agent.* "*National Symposium on Integrated Pest and Disease Management (IPDM) in Arid and Semi-Arid Areas*" on 12-13 March, 2008 at Arid Forest Research Institute, Jodhpur.
25. **Sharma, G.**, Kumar, R., Ramamurthy, V.V. and Kumar, N. 2007. Biodiversity of lepidopterous insects associated with vegetables in India. "*International conference on Future challenges to environmental scientists on issues of energy, water and human health*" organized by National Environmental Science Academy held at Jamia Hamdard University, New Delhi on 23<sup>rd</sup>-25<sup>th</sup> August, 2007.
26. **Sharma, G.**, Ramamurthy, V.V., Joshi, P.C., Mittal, V. and Kumar, R. 2007. Diversity of Odonates (Insecta: Arthropoda) their present status, distribution and conservation in India. "*Ento-07-International Symposium-Aquatic Insects: challenges to populations*", organized by *Royal Entomological Society, London* held at University of Edinburgh, Edinburgh, United Kingdom on 16<sup>th</sup> to 18<sup>th</sup> July, 2007.
27. **Sharma, G.**, Sundararaj, R. and Karibasavaraja, L.R. 2006. Butterflies associated with selected provenances of sandal in south India. Paper presented in the "*National Conference of*

*Entomology*” held at Department of Zoology, Punjabi University, Patiala from 15<sup>th</sup> to 17<sup>th</sup> March 2006. p. 61.

28. **Sharma, G.,** Sundararaj, R. and Karibasavaraja, L.R. 2006. Odonata diversity in the selected provenances of sandal in India. Paper presented in the “*International Conference on Biodiversity of Insects: Challenging issues in management and conservation*” held at Department of Zoology, Bharathiar University, Coimbatore, Tamil Nadu from 30<sup>th</sup> January to 3<sup>rd</sup> February, 2006. p. 24.
29. **Sharma, G.,** Sundararaj, R. and Karibasavaraja, L.R. 2006. Species diversity of odonates (Odonata: Insects) in sandal rich ecosystem of Karnataka and reproductive behaviour of *Orthetrum pruinatum neglectum* (Rambur). Paper presented in the “*VII South Asian symposium on Odontology & Recent trends in Zoology*” held at Hislop College, Nagpur, Maharashtra from 9<sup>th</sup> to 11<sup>th</sup> January, 2006. p.19.
30. **Sharma, G.** and Kumar, A. Odonata diversity of Punjab Shivalik with their habitats and flight period. Paper presented in the “*VI South Asian symposium on Odontology*” held at Bhagalpur University, Bhagalpur, Bihar from 21<sup>st</sup> to 23<sup>rd</sup> April, 2003. p.25.

## 15. Participated in Training Programmes:

Sl. No.	Year	Name of the Training Programme	Name of The Institute	Duration
1.	2001	“ <i>On Collection, Preservation and Identification techniques of Zoological Specimens</i> ”	Zoological Survey of India (MoEF, GOI), Dehradun	Three days (from 21-23 Feb., 2001)
2.	2008	“ <i>CDDO Workshop on New Pension Scheme</i> ”	National Securities Depository Limited (NSDL) Mumbai held at New Central Revenue Building, Jaipur	One day (on 13-09-2008)
3.	2009	“ <i>XI<sup>th</sup> Leadership Course on Environmental Awareness and Wildlife Conservation</i> ”	Zoological Survey of India, (MoEF, GOI), Kolkata	Four days (from 24 <sup>th</sup> to 27 <sup>th</sup> March, 2009)
4.	2009	“ <i>IUCN Eastern Himalayas Freshwater Biodiversity Assessment Training Workshop</i> ”	IUCN Species Programme (Species Survival Commission) Cambridge, United Kingdom held at Kathmandu, Nepal	Five days (from 22-26 July, 2009)
5.	2009	“ <i>Training on Right to Information Act, 2005</i> ”	Institute of Secretariat Training and Management, New Delhi	Two days (from 22-23 Oct., 2009)
6.	2010	“ <i>Training on Public Finance Management</i> ”	Institute of Secretariat Training and Management, New Delhi	Five days (from 12-16 April, 2010)
7.	2010	“ <i>Training Programme on Science Administration and Research Management for Scientists</i> ”	Administrative Staff College of India, Bella Vista, Hyderabad	Twelve days (from 6-17 September, 2010)
8.	2011	“ <i>Workshop on Intellectual Property Rights</i> ”	Department of Science and Technology, Jodhpur, Rajasthan at AFRI, Seminar Hall, Jodhpur	One day on 25 <sup>th</sup> May, 2011
9.	2012	“ <i>Workshop on Scientific and Technical Terminology and Implementation of the</i> ”	Centre for Training and Development, Bangalore held at	Two days from 21-22 August,



		<i>Official Language Policy</i>	Hotel Samanduram, Kerala	2012
10.	2013	<i>“Training programme on GIS in Faunal Studies, Data basing and Digitization of Faunal Collections”</i>	Zoological Survey of India (Headquarters) New Alipore, Kolkata	Two days from 21-22 January, 2013
11.	2013	<i>“Training programme on Application of Scanning Electron Microscopy in Animal Taxonomy”</i>	Zoological Survey of India (Headquarters), New Alipore, Kolkata	Two days from 17-18 July, 2013
12.	2013	<i>“Training programme on Current requirements in Environmental Impact Assessment (EIA)-Process and Procedures (as per MoEF Guidelines)”</i>	Engineering Staff College of India, Environment Management Division, Gachi Bowli, Hyderabad	Three days from 12-14 August, 2013
13.	2014	<i>“Training workshop on DSLR Macro Photography”</i>	Zoological Survey of India (Headquarters), New Alipore, Kolkata	Two days from 6-7 March, 2014
14.	2015	<i>“Training programme on Scheduled Animals of India”</i>	Zoological Survey of India (Headquarters), New Alipore, Kolkata	Two days from 12 <sup>th</sup> – 13 <sup>th</sup> March, 2015
15.	2015	<i>“Training programme on EIA-Mainstreaming Biodiversity in Energy Sector”</i>	Wildlife Institute of India, Dehra Dun, Uttarakhand	Three days from 3 <sup>rd</sup> – 5 <sup>th</sup> August, 2015
16.	2016	<i>“Professional Training Programme on Species Monitoring and Conservation: Terrestrial Mammals”</i>	Smithsonian-Mason School of Conservation, Virginia, USA	Twelve days from 09 <sup>th</sup> – 20 <sup>th</sup> May, 2016

## 16. Research Projects Completed and Reports submitted/published :

- (2003) Programme entitled *“Biodiversity in the Shivalik Ecosystem of Punjab, India”* to PSCST, Chandigarh and Ministry of Environmental and Forests (Govt. of India), New Delhi.
- (2006) Programme entitled *“Studies on the entomofaunal diversity and their interactions in selected provinces of Sandal”* to Ministry of Environment, Forest and Climate Change (Govt. of India), New Delhi.
- (2007) Programme entitled *“Systematic studies on the biodiversity of lepidopterous insects associated with vegetables in India”* to Department of Science and Technology (Govt. of India), New Delhi.
- (2010) Programme entitled *“IUCN Eastern Himalayas Freshwater Biodiversity Assessment Project”* and assessed status of 49 species of Odonata, which were incorporated in the **IUCN Red List** ([www.iucnredlist.org](http://www.iucnredlist.org)) in the year 2009-10.
- (2011) Programme entitled *“Environmental Impact Assessment and Faunal diversity studies of Lignite Mining”* in Hadla Rawaleton, Hadla Bhatiyen and Mokha Lignite Block, District Bikaner, Rajasthan.
- (2012) Programme entitled *“Environmental Impact Assessment and Faunal diversity studies of Lignite Mining, Village Gurah (West), Dist. Bikaner, Rajasthan”* for Rajasthan State Mines and Minerals Ltd.
- (2013) Programme entitled *“Faunal diversity studies in and around NMDC Kirandul and Bachel Complex Iron Ore Mines, South Bastar, Distt.-Dantewada, Chhattisgarh”* for IBRAD, Kolkata.
- (2014) Programme entitled *“Faunal diversity studies in and around NMDC Donimalai and Kumaraswamy Iron Ore Mines, Bellary District, Karnataka”* for IBRAD, Kolkata.
- (2014) Programme entitled *“Faunal diversity studies in and around NMDC Diamond Mine, Panna, Madhya Pradesh”* for IBRAD, Kolkata.
- (2014) Programme entitled *“Migratory Birds study in and around East Kolkata Wetland and Ambuja site”* initiated for Ambuja Group, Kolkata assigned by West Bengal Forest Department.

11. (2014) Programme entitled “*Faunal Exploration of Sitamata Wildlife Sanctuary, Rajasthan*” for Zoological Survey of India, Kolkata.
12. (2014) Programme entitled “*Studies on Odonata and Lepidoptera fauna of Aravalli Range of Rajasthan*” for Zoological Survey of India, Kolkata.
13. (2015) Programme entitled “*Documentation of Faunal diversity and suggested Conservation Action Plan for Schedule-I Animals of Nuclear Fuel Complex, Rawathbhata, Rajasthan*” sponsored by Nuclear Power Corporation of India Limited (NPCIL), Department of Atomic Energy, Hyderabad.
14. (2018) Programme entitled “*Studies on the selected families of Hymenoptera (Apidae, Halictidae, Megachilidae, Scoliididae and Vespidae) of Sundarbans Biosphere Reserve, West Bengal*” for Zoological Survey of India, Kolkata.
15. (2018) Programme entitled “*Studies on Odonata and Lepidoptera fauna of Desert Ecosystem of Rajasthan*” for Zoological Survey of India, Kolkata.

### **Declaration**

I hereby declare that, the particulars given above are true to the best of my knowledge.

**Place: ZSI, NRC, Dehradun, Uttarakhand, India.**

**Date: 01-07-2019.**



**(Dr. Gaurav Sharma)  
Scientist-E & Officer-in-Charge,  
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