

Dr. Sunil DUBEY

Ph.D., NET, M.Sc.

Date of Birth: 16 June, 1973

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❖ ACADEMIC QUALIFICATIONS:

- ◆ **Ph. D.** in 2011 (Title: 'Study of Biodiversity of Jaisamand Wildlife Sanctuary, Its Conservation Problems and Solutions'), under supervision of Prof. B. L. Chaudhary (Ex. Vice Chancellor, MLSU, Udaipur) from Dept. of Botany, Mohanlal Sukhadia University, Udaipur, Rajasthan, India.
- ◆ **National Eligibility Test (NET) for Lectureship** in 2001, in Environmental Science, from Indian Council of Agricultural Research (ICAR), India.
- ◆ **M.Sc.** in 1999, in Environmental Science, from Mohanlal Sukhadia University, Udaipur, Rajasthan, India.
- ◆ **B.Sc.** in 1997, (with optional subjects Environmental Biology, Chemistry & Zoology), from Mohanlal Sukhadia University, Udaipur, Rajasthan, India.
- ◆ **Senior Secondary** in 1992, with optional subjects Physics, Chemistry & Biology from Board of Secondary Education Rajasthan, Ajmer, India.
- ◆ **Secondary** in 1989, from Board of Secondary Education Rajasthan, Ajmer, India.

❖ OTHER QUALIFICATIONS:

- **Home Study Course in Ornithology (Intermediate Level, December 2006 – May 2007)**, from Institute of Bird Studies and Natural History, Rishi Valley Education Centre, Krishnamurti Foundation, Chittoor, Andhra Pradesh, India.

❖ PROFESSIONAL (CURRENT) ENGAGEMENTS:

- Working as Independent Consultant in Ecology, Ecosystem and Natural Resource Management Issues since 2013.
- Acting as Joint Managing Trustee, Institute for Ecology and Livelihood Action (IELA), Udaipur, Rajasthan, India.
- Appointed as Expert Member on Life Sciences in the expert committee constituted by the forest department of Rajasthan for identifying Critical Wildlife Habitats in the

Sitamata Wildlife Sanctuary, Rajasthan, India.

- Member of Management Committee of Himalayan Institute of Multiple Alternatives for Livelihood (HIMAL), Danya (Almora), Uttarakhand, India.
- Engaged as trainer in ecology, biodiversity and natural resource management with 'Ashankur Rural Women's Center', village Bhokar, Shrirampur, district Ahmednagar, Maharashtra India for Institute for Ecology and Livelihood Action, India.
- Resource person to Science Center (Gwalior) Madhya Pradesh, Bhopal, India.
- Scientific advisor to Voluntary Institute for Community Applied Science (VICAS), Allahabad, Uttar Pradesh, India.
- Resource person to Prasansa Foundation, Vadodara, Gujarat, India.
- Resource person to the Network of Organizations for Science and Technology Communication (NOSTC), India.
- Member of the advisory committee and consultant to Gayatri Seva Sansthan, Udaipur, Rajasthan, India.
- Member of the advisory committee as well as member in the national council of National Platform for Small Scale Fish Workers (NPSSF) and national convener of the working group on wetlands, India.

❖ PROFESSIONAL (PAST) ENGAGEMENTS:

S. No.	Duration	Designation	Organisation
1.	Academic Year 2021 & 2022	Lecturer (Part-Time) (Natural Resource Management)	Xavier Institute of Natural Resource Management, Ahmednagar, Affiliated to Savitribai Phule Pune University, Pune, Maharashtra, India.
2.	June 2017 to May 2020	Member, National Academic Committee (National Children Science Congress)	National Council for Science & Technology Communication (NCSTC), Dept. of Science & Technology, Govt. of India
3.	Oct. 2018 to Oct. 2020	Board Member	Krishi Avam Paristhitiki Vikas Sansthan (KRAPAVIS), Alwar, Rajasthan, India
4.	February - May 2015	Consultant Scientist	Badlao Foundation, Jharkhand, India
5.	Jul. 2013 – Feb. 2014; July - December 2014	Consultant Scientist	Society for Promotion of Wasteland Development, New Delhi, India
6.	July 2006 – June 2013	Lecturer (Environmental Sc.)	Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India
7.	January 2004 – June 2006	Research Assistant	Vidya Bhawan Society, Udaipur, Rajasthan, India

8.	Session 2002-2003 and 2003-2004	Guest Lecturer	Manikya Lal Verma Shramjeevi College, JRNRV University, Udaipur, Rajasthan, India
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- ◆ Nominated member in the proposed steering committee for monitoring, protection & conservation of wildlife in Rajasthan (India) by Chief Conservator of Forest (Wildlife) Udaipur, Rajasthan in 2014.

❖ MEMBERSHIPS

❖ Membership in International Bodies:

- ◆ Member in the World Commissions of IUCN (the World Conservation Union), since 2009
 - IUCN World Commission on Protected Areas (WCPA)
 - IUCN Commission on Education and Communication (CEC)
 - IUCN Species Survival Commission (Invasive Species Specialist Group) (SSC)
 - IUCN Commission on Environmental, Economic and Social Policy (CEESP)
 - IUCN Commission on Ecosystem Management (CEM) (in thematic groups of 'Ecosystem Services', 'Mountain Ecosystems' and 'Ecosystems & Invasive Species').
- ◆ International Society of Zoological Sciences
- ◆ International Teachers Association of Compassionate Citizen Humane Education Program.

❖ Membership in National Bodies:

- ◆ The Indian Science Congress Association (Life Membership).

❖ EXPERIENCE AS ASSOCIATE / RESOURCE PERSON / EXPERT (more than 25 yrs):

- ◆ Associated as expert / resource person / volunteer with Department of Forest, Government of Rajasthan, India since more than 25 years.
- ◆ Contributing in Wildlife Population Estimation in protected areas organized by Wildlife Division, Department of Forest, Udaipur, India since last 25 years.
- ◆ Associated as resource person and evaluator at national level, Rajasthan state level and Udaipur division level in National Children Science Congress (NCSC), organized yearly by National Council for Science & Technology Communication (NCSTC), Ministry of Science and Technology, Govt. of India, since last 24 years.
- ◆ Associated as expert / resource person / volunteer with Department of Science & Technology, Government of Rajasthan, India for more than 25 years.
- ◆ Acting resource person in Eco-Trekking, Nature Camps, Monitoring of Flora and Fauna etc programmes organised by Dept. of Forest (Udaipur Division), Govt. of Rajasthan, India.
- ◆ Acting as resource person / expert for international visitors as well as for academic

institutions of Rajasthan and other states in their field visits, observation and study of natural landscapes in different areas of Rajasthan, India.

- ◆ Contributed in identification and determination of threatened medicinal plants of Rajasthan according to the categories and Criteria of the IUCN, during state level workshop on 'Conservation and Management Prioritization (CAMP) for the Medicinal Plants of Rajasthan,' organized by the Rajasthan Forest Department and Foundation for revitalization of Local Health Traditions, Bangaluru, at forestry training institute, Jaipur, Rajasthan, India during September 10 -13, 2007.
- ◆ Acted as Resource Person in 'Technology Based Entrepreneurship Development Program (TEDP) on Environmental Monitoring and Analysis for Consultancy Services', June 02-July 12, 2003 Organized by Entrepreneurship Development Cell, MLS University Udaipur and sponsored by Dept. of Science & Technology, Govt. of India.
- ◆ Acted as Resource Person in Teacher Trainings (for Key Resource Persons, Master Trainers and Teachers) organised by Govt. of Rajasthan, India under Sarv Shiksha Abhiyan scheme during 2005-2006. Acted as Resource Person in workshops on pedagogical issues etc. {through Vidya Bhawan Education Resource Centre, Udaipur (Rajasthan), UNICEF Rajasthan Unit and other associated NGOs} during 2004-2006.

❖ **EXPERIENCE OF FIELD WORK (more than 25 yrs):**

Observing and documenting ecological and other environmental features at different levels for more than 25 years. Landscapes covered across the India for documentation include states of Rajasthan, Goa, Gujarat, Jharkhand, Maharashtra, Odisha and Uttarakhand. Other states visited and observed include Madhya Pradesh, Bihar, Haryana, Himachal Pradesh, Jammu & Kashmir, West Bengal, Kerala, and Union Territory Dadra Nagar Haveli & Daman Diu.

- ◆ Research contribution along with my students of masters in environmental science (during 2006-2013) in conservation and protection of flora, fauna and ecosystem of 'Jhunjhunu Beed Reserve Forest' a 1048 Hectare area representative of typical flora and fauna of Semi-arid zone in Jhunjhunu, Rajasthan, India. It has been now notified as 'Conservation Reserve' and being developed with reintroduction of antelopes.
- ◆ Pioneer records of floral and faunal diversity of Jhunjhunu district, Rajasthan, India, prepared that include floral diversity (including Invasive Alien Flora), medicinal plants, avian diversity (including migratory species), snake diversity, mammalian diversity etc.
- ◆ Supervised and imparted the team of Post Graduate students of Environmental Science in studying the floral and faunal diversity and other environmental aspects of Jhunjhunu District, Rajasthan, India for 07 years (July 2006 – June 2013).
- ◆ Monitored Air Quality Scenario in Jhunjhunu City, Rajasthan, India (including studies on Noise Pollution Level) since 2007 till 2013.

- ◆ Part of research team for investigating the occurrence of Fish, '*Snow Trout*' and other fish fauna in the Udaipur region (Southern Rajasthan, India), with support from Australian Geographic Society, 12–30 March, 2006. (During survey, re-sighted '*Gara mullya*', a hill stream fish that was declared disappeared from Rajasthan region).
 - ◆ Conducted 'Bird Census' at Lake Fatehsagar (Udaipur, Rajasthan, India), during winter season, every year from 2002 to 2006.
 - ◆ Conducted 'Bird Census' in reserve forest (Beed) area near Jhunjhunu city (Jhunjhunu, Rajasthan, India), during winter season every year from 2007 to 2013, (First time reporting of Migratory Birds in Jhunjhunu region).
 - ◆ Acted part of team to conduct 'Gobar Survey' to analyze the quantity of dung released by stray cattle in Udaipur city area to sort out the energy potential of it; survey conducted by NEED organization, Udaipur, India, on February 28, 2002.
 - ◆ Acted part of team to ascertain 'The Most Beautiful Tree of India', survey conducted by NEED Organization, Udaipur, India, during 2001.
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❖ **EXPERIENCE OF EDITORIAL WORK AND CONTENT DEVELOPMENT IN ACADEMIC PUBLICATIONS / GUIDE BOOK / MANUAL / COMPENDIUM:**

- ◆ Member of editorial board for development of activity manual developed by Science Centre (Gwalior) Madhya Pradesh under 'Year of Awareness on Science & Health (YASH)' program of National Council for Science & Technology Communication (NCSTC), Ministry of Science and Technology, Govt. of India (Also contributed in content development).
- ◆ Member of editorial board for development of activity manual of 'Eco Eureka Kit' (the kit developed by Science Centre (Gwalior) Madhya Pradesh with support of National Council for Science & Technology Communication (NCSTC), Ministry of Science and Technology, Govt. of India (Also contributed in content development).
- ◆ Contributed in content development of the 'Activity Guide Books' for National Children's Science Congress (NCSC), 2020 & 2021 as member of the national academic committee (NAC) for National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India.
- ◆ Contributed in content development of the 'Activity Guide Books' for National Children's Science Congress (NCSC), 2018 & 2019 as member of the national academic committee (NAC) for National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India.
- ◆ Associate Editor in *Voyager* {Vol.-3 (2012), ISSN No.: 0976.7436}, published by Journal Anu Books, Meerut, India.
- ◆ Chief Editor in *Eduvision* (Volume X, 2011-2012), Newsletter published by Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India.

- ◆ Chief Editor in *Eduvision* (Volume XI, 2012-2013), Newsletter published by Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India.

❖ **EXPERIENCE AS ACADEMIC GUIDE:**

(i) Research Projects Funded by Dept. of Science & Technology, Govt. of Rajasthan, India under 'Student Project Program for Education & Research':

S. No.	Project Title	Candidate(s)	Year
1.	Assessment of Avifaunal Diversity of Jhunjhunu District, Rajasthan (Including Migratory Species) in Reference to Their Conservation Perspective	Mr. Darasingh Shyoran & Mr. Vijay Kumar	2013
2.	Study of Air Quality In and around Jhunjhunu District Headquarter, Rajasthan	Mr. Sanjeev Kumar & Mr. Ajay Balwada	2013

(ii) Guided M.Sc. (Environmental Science) Dissertations:

S. No.	Title of Dissertation	Candidate	Year
1.	'Estimation of Chlorophyll and Carotenoid Content in Plant Species of Jhunjhunu, Rajasthan'	Ms. Frida Bano	2013
2.	'Chlorophyll Estimation in Leaves of Certain Plant Species in Jhunjhunu, Rajasthan'	Ms. Rakhi Bagri	2012
3.	'Status, Ecology and Conservation of Avian Fauna in Jhunjhunu District, Rajasthan'	Mr. Darasingh Shyoran	2010
4.	'Study of Avian Species Diversity and Its Ecology in Reserve Forest Block (BEED), Jhunjhunu, Rajasthan'	Mr. Ashok	2009
5.	'Status Ecology and Distribution of <i>Salvadora</i> Species in Reserve Forest Block (BEED) Near Jhunjhunu City, Rajasthan'	Mr. Vikas Kumar	2009
6.	'Study of Floral Diversity of BEED Area Near Jhunjhunu City, Rajasthan'	Ms. Anuradha	2009
7.	'Study of Status, Ecology and Conservation of <i>Uromastyx hardwickii</i> Gray in Tal Chhapar Sanctuary, Churu, Rajasthan'	Mr. Jogender Singh Kagara	2009

❖ **ADMINISTRATIVE / OTHER EXPERIENCE in ACADEMIC INSTITUTION:**

- ◆ Acted as 'Officiating Coordinator' with an additional charge, of Seth Motilal P.G. College and Seth Motilal Shikshakendra Mahavidyalaya, for Seth Juthalal Education Society, Jhunjhunu, Rajasthan, India from 1st August 2011 to 30th June 2013.
- ◆ Chaired various administrative positions at Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India during 2011 – 2013 as under –
 - NSS Program Officer (Unit-I)(from 1st August 2011 to 30th June 2013),

- Deputy Director of Student Council (during session 2012-2013),
 - Secretary of the Staff Council (during session 2011-12),
 - Joint Director of College Parishad (during session 2011-2012 and 2012-2013),
 - Faculty Incharge (Biology) (during session 2011-12),
 - Positions of Convener / Member hold in various college committees (during academic sessions 2006-2007 to 2012-2013).
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❖ PUBLICATIONS:

(i) International Communication (01):

- ◆ 'More on the Indian Chamaeleon in Aravalli Hills,' in *'Tiger Paper,'* Vol. XXXII: No. 1, January-March 2005, pub. by Food and Agricultural Organization, Regional Office for Asia and the Pacific, Bangkok, Thailand, pp. 05.

(ii) Papers (15):

- ◆ 'Assessment of Suspended Sediments in Lake Udaisagar, Udaipur, Rajasthan,' in *Annals of the Rajasthan Geographical Association*, Vol. XXXV, 2018. pp. 25-29 [ISSN No. 0975-4652].
- ◆ 'Population Status of Indian Sarus Crane (*Grus antigone antigone*) in South Rajasthan, India,' in *Journal of Chemical, Biological and Physical Sciences*, Vol.4, No.4, August-October, 2014, pp. 3372-3380. [E-ISSN No. 2249-1929]. Online available at www.jcbosc.org.
- ◆ 'Diurnal Time Budget and Activity Pattern of Indian Sarus Crane (*Grus antigone antigone*) in Chittaurgarh District, Southern Rajasthan, India,' in *Journal of Chemical, Biological and Physical Sciences*, Vol.4, No.2, February-April, 2014, pp. 1258-1270. [E-ISSN No. 2249-1929]. Online available at www.jcbosc.org.
- ◆ 'Population, Composition, Distribution and Habitat Preference of Indian Sarus Crane (*Grus antigone antigone*) in Chittaurgarh District, Southern Rajasthan,' in *Journal of Chemical, Biological and Physical Sciences*, Vol.3, No.4, August-October 2013, pp. 2784-2792. [E-ISSN No. 2249-1929]. Online available at www.jcbosc.org.
- ◆ 'Flora of Jaisamand Wildlife Sanctuary, Udaipur, Rajasthan, India,' in *J. Ecobiotechnology*, Vol. 04(2), 2012, pp. 185-188. [ISSN No. 2077 - 0464]
- ◆ 'An Annotated Checklist of Angiospermic Flora of Sitamata Wildlife Sanctuary, Rajasthan with Special Reference to Invasive Alien Flora,' in *Voyager*, Vol. 03, January 2012, pp. 09-24. [ISSN No. 0976 - 7436]
- ◆ 'Invasive Alien Flora of Chittaurgarh District with Special Reference to Their Control,' in *Voyager*, Vol. 03, January 2012, pp. 33-42. [ISSN No. 0976 - 7436]
- ◆ 'Amphibian and Herpatofauna of Sitamata Wildlife Sanctuary, Rajasthan, India,' in *Voyager*, Vol. 03, January 2012, pp. 95-104. [ISSN No. 0976 - 7436]

- ◆ 'Avian Diversity of Sitamata Wildlife Sanctuary, Rajasthan, India,' in *Geobios*, Vol. 38(04), 2011, pp. 257-264. [ISSN No. 0251 - 1223]
- ◆ 'An Annotated Checklist of Reptilian Fauna of Bassi Wildlife Sanctuary, Aravalli Hills, Northwest India,' in *Cobra*, Vol. 5, Issue 2, 2011, pp. 25 - 30.
- ◆ 'Record of Alien Plant Species in Jaisamand Wildlife Sanctuary, Rajasthan, India' in the *Journal of Indian Botanical Society (J. Indian bot. Soc.)*, Vol. 90(3&4) 2011, pp. 367-373. [ISSN No. 0019 - 4468]
- ◆ 'Birds of Bassi Wildlife Sanctuary, Chittaurgarh, Rajasthan,' in *Voyager*, Vol. 02(No.1), June 2011, pp. 53-59. [ISSN No. 0976 - 7436]
- ◆ 'Mammalian Diversity of Sitamata Wildlife Sanctuary, Rajasthan,' in *Voyager*, Vol. 02(No.1), June 2011, pp. 67-71. [ISSN No. 0976 - 7436]
- ◆ 'An Account of Mammalian Fauna in Jaisamand Wildlife Sanctuary, Udaipur, Rajasthan, India,' in *Cheetal*, Vol. 48(No. 4), 2010, pp. 26-29.
- ◆ 'Higher Education Scenario in India: Need for Private Sector Participation in Bringing Excellence,' in souvenir of UGC sponsored National Seminar on 'Quality Assurance in the Institutions of Higher Education,' at Seth Moti Lal P.G. College, Jhunjhunu, Rajasthan, India, August 2008, pp. 14-19.

(iii) Chapters (7):

- ◆ 'History of Wildlife in Mewar (Southern Rajasthan, India) From Early Stages of Life in Precambrian Era to Recent History', In: *National Parks, Tiger Reserves, WLS and Biodiversity of India: Identification, Conservation and Management* (Ed. Skand Kumar Mishra), pub. by Govt. Madhav Sadashivrao Golwalkar College, Rewa (M.P.) India, pp. 485-494 [ISBN No. 978-81-928063-9-6].
- ◆ 'Population Composition and Demography of Sarus Crane (*Grus antigone antigone*) in Banswara District, Rajasthan, India' (Co-authored with Yaseen *et al.*), In: *Ecology and Biodiversity* (eds. P.C. Joshi, N. Joshi, B.N. Pandey and D.K. Mansotra), Today & Tomorrow's Printers and Publishers, New Delhi (2020), pp. 345-350 [ISBN No. 81-7019-660-7].
- ◆ 'Activity Pattern and Behavioural patterns of Indian Sarus Crane (*Grus antigone antigone*) in Chittorgarh District, South Rajasthan, India' (Co-authored with Yaseen *et al.*), In: *Ecology and Biodiversity* (eds. P.C. Joshi, N. Joshi, B.N. Pandey and D.K. Mansotra), Today & Tomorrow's Printers and Publishers, New Delhi (2020), pp. 351-359 [ISBN No. 81-7019-660-7].
- ◆ 'Status and Habitat Preference of Indian Sarus Crane in Dungarpur District' (Co-authored with Yaseen *et al.*), In: *Bird Diversity of Rajasthan: Opportunities and Challenges* (ed. Ashok Verma), Vol.1, Himanshu Publications, Udaipur (2016), pp. 141-146. [ISBN No. 978-81-7906-636-2].
- ◆ 'Population, Composition and Habitat Preference of Indian Sarus Crane in Chittaurgarh District' (Co-authored with Yaseen *et al.*), In: *Bird Diversity of Rajasthan: Opportunities and Challenges* (ed. Ashok Verma), Vol.1, Himanshu Publications, Udaipur (2016), pp. 147-154. [ISBN No. 978-81-7906-636-2].

- ◆ 'Angiospermic Flora of Rajasthan' (co-authored with Sharma S.) In: *Conserving Biodiversity of Rajasthan (with emphasis on wild flora and fauna)* (ed. Ashok Verma), Himanshu Publications, Udaipur (2008), pp. 370-431. [ISBN No. 978-81-7906-125-5].
- ◆ 'Invasive Alien Flora in Rajasthan' In: *Conserving Biodiversity of Rajasthan (with emphasis on wild flora and fauna)* (ed. Ashok Verma), Himanshu Publications, Udaipur (2008), pp. 455-465. [ISBN No. 978-81-7906-125-5].

(iv) Article (01):

- ◆ 'Alien Invasive Species: A Conspicuous Threat to Native Biodiversity'. In: *Vigyan Setu e-magazine*, year 01, issue 03 (June 2021 – August 2021), pp. 7-8. Online available - <https://vigyansetufoundation.in/wp-content/uploads/2023/02/open-access-to-issue-3.pdf>

(v) Abstracts (21):

- ◆ 'Urban Avian Diversity of Udaipur (Rajasthan) and their Conservation Problems', in abstract book of (Section of Environmental Science) 108th Indian Science Congress, organised at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, India, 3-7 January 2023, pp. 359.
- ◆ 'Geo-spatial Approach for Mapping, Monitoring and Conservation of Sacred Groves (Orans); Acse Study: Jawai Conservation Area and Its Surroundings, Rajasthan, India', in abstract book of 46th National Conference of the Rajasthan Geographical Association, organised by Dept. of Geography, Maharana Pratap Government College, Chittorgarh, Rajasthan, India, 10-12 January, 2019, pp. 01.
- ◆ 'Population Composition and Habitat Preference of Indian Sarus Crane (*Grus antigone antigone*) in Chittaurgarh District', in Abstract Book of National Seminar on 'Bird Biodiversity of Rajasthan: Opportunities and Challenges' (Ed. Ashok Verma), Published by SREE, Bharatpur (Rajasthan, India), 27-28 February, 2015, pp. 36-37.
- ◆ 'Status and Habitat Preference of Indian Sarus Crane (*Grus antigone antigone*) in Dungarpur District, India', in Abstract Book of National Seminar on 'Bird Biodiversity of Rajasthan: Opportunities and Challenges' (Ed. Ashok Verma), Published by SREE, Bharatpur (Rajasthan, India), 27-28 February, 2015, pp. 43-44.
- ◆ 'Chlorophyll and Carotenoid Content in Some Plant Species in Jhunjhunu District, Rajasthan', in Souvenir-Abstract Book of National Symposium on 'Conservation of Nature and Natural Resources', organized by Telangana Students Forum and Biological Resource Persons Association, Wanaparthy, Telangana, India, 21-22 January, 2015, pp. 56.
- ◆ 'Ecological Forecasting and Disease Early Warning Systems: In Context of Anthropogenic Influences on Climate Change,' in souvenir cum abstract book of National Seminar on 'Interdisciplinary Approach in Science in Emerging Scenario,' organized by Vaish College, Bhiwani, Haryana, India, on 16th March, 2013, pp. 78.
- ◆ 'Chlorophyll and Carotenoid Content in Some Plant Species in Jhunjhunu District, Rajasthan,' in souvenir cum abstract book of National Seminar on 'Interdisciplinary Approach in Science in Emerging Scenario,' organized by Vaish College, Bhiwani, Haryana,

India on 16th March, 2013, pp. 80.

- ◆ 'Snake Diversity of Jhunjhunu District, Rajasthan, India' in souvenir of UGC sponsored National Seminar on 'Recent Trends in Biodiversity of India', organised by Govt. Degree & P.G. College, Wanaparthy (Mahabubnagar), Andhra Pradesh, India, 27-28 January, 2013, pp. 33-34.
- ◆ 'Status of Migratory Birds in Jhunjhunu District, Rajasthan, India' in souvenir of UGC sponsored National Seminar on 'Environment Management & Biodiversity Conservation (Present Status and Future Strategy)', organised by Govt. Lohia P.G. College, Churu, Rajasthan, India, 06-07 October, 2012, pp. 23.
- ◆ 'Record of the Floristic Diversity of Jaisamand Wildlife Sanctuary, Udaipur, Rajasthan,' in souvenir of UGC sponsored National Conference on 'Biodiversity Depletion: Causes, Consequences and Solutions', organised by Dept. of Botany, M.L.V. Govt. College, Bhilwara, Rajasthan, India, 28-29 September, 2012, pp. 2-3.
- ◆ 'Diversity of Avian Fauna of Reserve Forest Block (Beed), Jhunjhunu, Rajasthan, with Special Reference to Migratory Species,' in souvenir of UGC sponsored National Seminar on 'Ecotoxicology, Impacts and Challenges on Biodiversity', organised by Dept. of Zoology, Vinodini P.G. College, Khetri, Jhunjhunu, Rajasthan, India, 26-27 February, 2011, pp. 46.
- ◆ 'Including Environmental Education in the Dogma for Sustainable Development and Better Economics,' in souvenir of ICSSR sponsored National Seminar on 'Environmental Economics: Theory and Policy' and 31st conference of Rajasthan Economics Association, held at MLV Shramjeevi College, JRNRV University, Udaipur, India, 4-6 February, 2011, pp. 26.
- ◆ 'Primary Productivity of Ana Sagar Lake, Ajmer, Rajasthan,' in abstract book of 98th Indian Science Congress held at SRM University, Chennai, Tamil Nadu, India, 3-7 January, 2011, pp. 11-12.
- ◆ 'Phytodiversity and Its Relation to Edaphic Conditions in Reserve Forest Block (Beed), Jhunjhunu, Rajasthan,' in abstract book of Symposium on Natural Resource Management in Agriculture (NaRMA-II), organised by PROM Society at Rajasthan College of Agriculture, Udaipur, India, 10-11 December, 2010, pp. 153-154.
- ◆ 'Status, Ecology and Distribution of *Salvadora* Species in Reserve Forest Block (Beed), Jhunjhunu, Rajasthan,' in souvenir of International conference on Folk and Herbal Medicine,' jointly organised by Dept. of Botany, Mohan Lal Sukhadia University, Udaipur and Rajasthan State Medicinal Plant Board, Jaipur, at Dept. of Botany, Mohanlal Sukhadia University, Udaipur, India November, 2010, pp. 294.
- ◆ 'Birding in Sewage Wetlands of Jhunjhunu City, Rajasthan,' in Abstract Book of National Seminar on 'Conservation and Utilization of Natural Resources and their Role in Sustainable Development,' held at Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India, October 2008, pp. 25.
- ◆ 'Water Birds at Lake Fatehsagar of Udaipur, Rajasthan: Past and Present Status, Changes and its Significance,' in Abstract Book of National Conference on 'Environmental Sciences: Current status and Emerging Challenges,' November 2007, pp. 49-50.

- ◆ 'Status of Biodiversity in Jaisamand Wildlife Sanctuary: Past and Present,' in Souvenir-Abstract Book of National Symposium on 'Emerging Trends in Plant Biology, Environmental Protection and Biotechnology,' held at Mohanlal Sukhadia University, Udaipur, India, 9-11 October 2006, pp. 42-43.
 - ◆ 'Priority Areas for Conservation of Species: A Case Study of Jaisamand Wildlife Sanctuary,' in Souvenir-Abstract Book of National Symposium on 'Emerging Trends in Plant Biology, Environmental Protection and Biotechnology,' held at Mohanlal Sukhadia University, Udaipur, India, 9-11 October, 2006, pp. 43-44.
 - ◆ 'Flora of Jaisamand Wildlife Sanctuary with special reference to Invasive Alien Species,' in Abstract Book of XXIX Conference of Indian Botanical Society, held at Mohanlal Sukhadia University, Udaipur, India, 9-11 October 2006, pp. 70.
 - ◆ 'Climate Change and Infectious Diseases, Need for Ecological Forecasting and Disease Early Warning System', in Souvenir-Abstract Book of '31st Rajasthan Geographical Association Conference,' held at Maharana Pratap Govt. P.G. College, Chittorgarh, India, 19-21 December 2003, pp.15.
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❖ **DOCUMENTARY CONTRIBUTIONS IN CONSULTANCY AND PROFESSIONAL RESEARCH:**

- ◆ Have contributed checklists of mammals, birds, reptiles & amphibians in the new district gazetteers (under preparation) of Pratapgarh and Karauli districts of Rajasthan, to Planning (Manpower) Department, Govt. of Rajasthan, India.
- ◆ 'Participatory Rural Appraisal of Three Settlements in Sitamata Wildlife Sanctuary, Rajasthan'. Study and documentation done for the Wildlife Division, Dept. of Forest, Chittaurgarh, Rajasthan, India.
- ◆ 'Conservation Plan of Lake Udaisagar along with Socio-Economic Survey (Wetland Conservation Udaisagar)'. Study and documentation done for the Wildlife Division, Dept. of Forest, Udaipur, Rajasthan, India.
- ◆ 'Baseline Data (Avian Habitat), Wetland Conservation Udaisagar'. Study and documentation done for the Wildlife Division, Dept. of Forest, Udaipur, Rajasthan, India.
- ◆ GPS Survey and GIS Mapping of Distribution of Orans (Sacred Groves) in Jawai Bandh Conservation Reserve (Sumerpur)', done for Wildlife Division, Dept. of Forest, Udaipur, Rajasthan, India.
- ◆ 'Baseline Data (Aquatic and Terrestrial Ecology and Avian Habitat), Wetland Conservation Udaisagar'. Contribution in the study and documentation done for Wildlife Division, Dept. of Forest, Udaipur, Rajasthan, India.
- ◆ 'Baseline Survey of Orans (Survey and Assessment of Biodiversity), Jawai Bandh Conservation Reserve (Sumerpur)'. Contribution in the study and documentation done for Wildlife Division, Dept. of Forest, Udaipur, Rajasthan, India.
- ◆ GPS Survey and GIS Mapping of lake Udaisagar (wetland conservation), for Wildlife Division, Dept. of Forest, Udaipur, Rajasthan, India.
- ◆ 'Deliberate deprivation of Forest Resource Rights and Forced Eviction of Indigenous

Communities: Violation of FRA, 2006 in Sariska Tiger Reserve.' Report analysing the ground facts behind relocation of indigenous communities from a tiger reserve at Alwar, Rajasthan, India.

- ◆ Contribution in the document 'Capacity Building of Grassroot Organisations Working in selected Protected Areas and Sanctuaries – Focus on the Potential Emerging from the Facilitation of Civil Society and Grassroot Organisations in Western India in 2016,' for Institute for Ecology and Livelihood Action, Udaipur, India.
- ◆ 'Promise and Performance of Forest Right Act: The Tenth Anniversary Report (State Report for Rajasthan), Study Report prepared for Vasundhara, Odisha, India.
- ◆ Contribution in the document 'Facilitate FRA Implementation in western India,' for Institute for Ecology and Livelihood Action, Udaipur, India.
- ◆ 'Strengthening Various Project/Programme Activities and Institutional Capacity Building', for Badlao Foundation, Jharkhand, India. Expert Inputs in Ecology and Ecosystem Related Issues as well as Advisory in Enhancing Institutional Capabilities through Training and Documentation Support.
- ◆ Contribution in the document 'Facilitate FRA Implementation in Rajasthan through interaction with Civil Society and Grassroots Movement,' for Institute for Ecology and Livelihood Action, Udaipur, India.
- ◆ 'Estimation of the Potential CFR Area under FRA' for Society for Promotion of Wasteland Development, New Delhi. (Re-analysis of Past Scenario of all India using 1991 data and preparation of district-wise data for all states; State Level Scenario in Four Selected States - Odisha, Rajasthan, Gujarat and Maharashtra in 2001 when FRA Became Applicable in 2005; Field Level studies for Case studies and Ground Truthing in the Selected States of India.
- ◆ 'Area Specific People Centred Micro-plans of Ten Villages in the Upper Catchment of the Kosi River (An Effort for Revival of Kosi River in Northern Kumaon Region, Uttarakhand, with Sensitization and Capacity Building of People through Participatory Process at Grass Root Level)', for Society for Promotion of Wasteland Development, New Delhi, India.

❖ TRAINING PROGRAMMES / COURSES ATTENDED (07):

(i) National Level (05):

S. No.	Theme	Duration	Place	Organiser
1.	Training workshop on 'Systematics and Evolution	09-15 March, 2011	CEMDE, University of Delhi, Delhi, India	Centre for Environmental Management of Degraded Ecosystems, University of Delhi, India.
2.	Programme Implementer Workshop for the Bio-Sand Filter	08-11 June, 2005	Development Alternatives, Orchha (M.P.) India	Development Alternatives, New Delhi and Center for Affordable Water and Sanitation Technology, Canada
3.	Training Workshop for	01-02	Nehru	Vigyan Prasar New Delhi and

	Master Resource Persons on 'Transit of Venus Across the Sun'	April, 2004	Science Centre, Mumbai, India	National Council of Science and Technology Communication, DST Govt. of India
4.	Training Programme on 'Production and Marketing of Medicinal Plants'	15-19 March, 2004	NIAM, Jaipur, India	National Institute of Agricultural Marketing, Jaipur, in collaboration with Rajasthan State Medicinal Plants Board
5.	National Training Program on 'Role of Educational Institutions in Renewable Energy Technology Transfer'	18-20 Sept., 2001	MGIIREPD, Delhi, India	Mahatma Gandhi Institute of Integrated Rural Energy Planning & Development, Delhi

(ii) State Level (02):

S. No.	Theme	Duration	Place	Organiser
1.	Training program on 'Tackling Urban Slums'	15-20 Dec., 2003	HCM Rajasthan State Institute of Public Administration, Udaipur, India	Centre for Management Studies, The H C M Rajasthan State Institute of Public Administration, Udaipur (Raj.)
2.	Faculty Development Program on 'Promotion of Entrepreneurship in Educational Institutions'	09-22 October, 2003	Entrepreneurship Development Cell, Mohanlal Sukhadia University, Udaipur, India	Entrepreneurship Development Cell, MLSU, Udaipur & DST Govt. of India

❖ CONFERENCES / SEMINARS / WORKSHOPS / CAMPS:**(i) Acted As Organizing Secretary (1):**

- ◆ National Seminar on 'Role of Information and Communication Technology in Higher Education,' organized by Dept. of Computer Science, Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India on 12-13 February, 2012.

(ii) National Level (37):

- ◆ Resource scientist in the 'Regional Training Workshop of Prakrati Media Shala', organised by Science Centre (Gwalior) Madhya Pradesh under collaboration with National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India, locally hosted by Institute for Ecology and Livelihood Action, at Udaipur, Rajasthan, India during 09 To 13 September, 2023.

- ◆ 108th Indian Science Congress, organised by the Indian Science Congress at at Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, Maharashtra, India, 3-7 January 2023.
- ◆ Resource scientist in the 'Workshop for Development of Necessary Material and Orientation of Volunteers' for 'Year of Awareness on Science & Health (YASH) Program', organised by Science Centre (Gwalior) Madhya Pradesh under collaboration with National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India, during 30 September To 03 October, 2021.
- ◆ Participated in 'Brainstorming Workshop for Preparation of Activity Guide Book for National Children's Science Congress,' organised by Kerala State Council for Science, Technology and Environment, Kerala, as National Academic Committee Member of the National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India during 8-10 August, 2019.
- ◆ Subject expert in the workshop on 'Development and Duplication, of Eco Eureka Kit to Understand Ecology and Nature Activities', organised by Science Centre (Gwalior) Madhya Pradesh under collaboration with National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India, during 14 to 16 June, 2019.
- ◆ Keynote Speaker and Co-Chairman in National Conference on 'Prowess Womankind: Recent Advances in Management of Health, Environment, Science & Technology', organised by NIDAN Sarvjan Welfare Society, Society for Health, Education & Family Welfare (SHEFWEL) and M.P. Council of Science & Technology (MPCST), Bhopal, India, during 2-3 March, 2019.
- ◆ 46th National Conference of the Rajasthan Geographical Association, organised by Dept. of Geography, Maharana Pratap Government College, Chittorgarh, Rajasthan, India, 10-12 January, 2019.
- ◆ 106th Indian Science Congress; organized by the Indian Science Congress Association, at Lovely Professional University, Phagwara, Jalandhar, Punjab, India during January 3-7, 2019.
- ◆ National Workshop on 'Conservation of Community Conserved Areas (ICCAs); Orans/Charnots', jointly organised by Indian National Trust for Art and Cultural Heritage (INTACH) and Mehrangarh Museum Trust, Fort, at Jodhpur, Rajasthan, India during 15-16 July, 2017.
- ◆ National Academic Committee Member in 'Brainstorming Workshop for Preparation of Activity Guide Book for National Children's Science Congress,' organised by Gujarat Council on Science and Technology, Gandhinagar, Gujarat, India during 15-17 June, 2017.
- ◆ National Seminar on 'River Water and Environmental Conservation', organised by Environmental Planning and Coordination Organisation (EPCO), Dept. of Environment, Govt. of Madhya Pradesh, at Bhopal, India on 8th May 2017.
- ◆ 104th Indian Science Congress; organized by The Indian Science Congress Association, at S.V. University, Tirupati, India during January 3-7, 2017.

- ◆ National Seminar on 'Biodiversity, Conservation and Eco Tourism', organized at Dept. of Botany, Maharana Pratap Government P.G. College, Chittorgarh, Rajasthan, India during 27-28 September, 2016.
- ◆ National Symposium on 'Conservation of Nature and Natural Resources', organized by Telangana Students Forum and Biological Resource Persons Association, at Wanaparthy, Telangana, India during 21-22 January, 2015.
- ◆ 102nd Indian Science Congress; organized by The Indian Science Congress Association, at University of Mumbai (Mumbai, Maharashtra), India during January 3-7, 2015.
- ◆ 'India River Week' Conference, organized jointly by INTACH, WWF India, SANDRP, Peace Institute Charitable Trust & Toxic Links at the World Wildlife Fund headquarter at New Delhi, India, 24-27 November, 2014.
- ◆ National Seminar on 'Interdisciplinary Approach in Science in Emerging Scenario,' organized at Vaish College, Bhiwani, Haryana, India on 16th March, 2013.
- ◆ National Seminar on 'Recent Trends in Biodiversity of India,' organized at Dept. of Zoology, Govt. Degree & PG College, Wanaparthy, Andhra Pradesh, India during January 27-28, 2013.
- ◆ National Seminar on 'role of Biotechnology in Crop Improvement & sustainable Development of Agriculture for New Millennium', organized at Seth Motilal P.G. College, Jhunjhunu, Rajasthan, India during January 21-22, 2013.
- ◆ 100th Indian Science Congress; organized by The Indian Science Congress Association, at Calcutta University, Kolkata (West Bengal, India), during January 3-7, 2013.
- ◆ National Conference on 'Conservation of Biodiversity in India, Some Issues', organized at Dept. Of Botany, Arts and Commerce Girls' College, Raipur, Chhattisgarh, India during October 16-17, 2012.
- ◆ National Seminar on 'Scientific Development for Human Welfare: Promises and Concerns,' organized at J.V.M.G.R.R. (P.G.) College, Charkhi Dadri, Haryana, India during 10-11 February, 2012.
- ◆ 'Brainstorming Workshop on National Children's Science Congress & National Teachers' Science Congress' (the programmes of NCSTC, Department of Science & Technology, Government of India), organized at Patnitop (Jammu & Kashmir, India), during 09-11 August, 2011.
- ◆ National Seminar on 'Ecotoxicology, Impacts and Challenges on Biodiversity', organized at Vinodini P.G. College, Khetri, Jhunjhunu (Rajasthan, India), during February 26-27, 2011.
- ◆ National Seminar on 'Environmental Economics: Theory and Policy' and 31st conference of Rajasthan Economics Association, organized at MLV Shramjeevi College, Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur (Rajasthan, India), during February 4-6, 2011.
- ◆ 98th Indian Science Congress; organized by The Indian Science Congress Association, at SRM University, Chennai (Tamil Nadu, India), during January 3-7, 2011.
- ◆ One Day Workshop on 'Digital Alternatives to Animal Use in Dissection,' organized by Dept.

of Zoology, University College of Science, Mohan Lal Sukhadia University, Udaipur (Rajasthan), in association with Mahatma Gandhi Doerencamp Center, Tiruchirapalli, at Udaipur, India on February 11, 2010.

- ◆ 97th Indian Science Congress; organized by The Indian Science Congress Association, at Kerala University, Thiruvananthapuram (Kerala, India), during January 3-7, 2010.
- ◆ 96th Indian Science Congress; organized by The Indian Science Congress Association, at North Eastern Hill University, Shillong (Meghalaya, India), during January 3-7, 2009.
- ◆ National Seminar on 'Conservation and Utilization of Natural Resources and their Role in Sustainable Development,' organized at Seth Moti Lal P.G. College, Jhunjhunu (Rajasthan, India), during October 18-19, 2008.
- ◆ National Seminar on 'Quality Assurance in the Institutions of Higher Education,' organized at Seth Moti Lal P.G. College, Jhunjhunu (Rajasthan, India), during August 3-4, 2008.
- ◆ 95th Indian Science Congress; organized by The Indian Science Congress Association, at Andhra University, Vishakhapatnam (Andhra Pradesh, India), during January 3-7, 2008.
- ◆ National Conference on 'Biodiversity and Conservation – Social, Economical and Environmental Issues including Pollution and Patent Laws,' organized at Rama Devi Mahila Mahavidyalaya, Nua, Jhunjhunu (Rajasthan, India), during December 10-11, 2007.
- ◆ National Conference on 'Environmental Sciences: Current Status and Emerging Challenges,' organized by the Department of Botany, ML Sukhadia University, Udaipur (Rajasthan, India), during November 16 – 17, 2007.
- ◆ State Level Workshop on 'Conservation and Management Prioritization (CAMP) for the Medicinal Plants of Rajasthan,' (as per IUCN Categories & Criteria) organized by the Rajasthan Forest Department and Foundation for revitalization of Local Health Traditions, Bangalore, at Forestry training institute, Jaipur, Rajasthan, India during September 10 -13, 2007.
- ◆ '29th Conference of Indian Botanical Society', at Dept. of Botany, M L Sukhadia University, Udaipur (Rajasthan, India), during October 9 -11, 2006.
- ◆ 'National Symposium on Plant Biology, Environmental Protection and Biotechnology' at Dept. of Botany, M L Sukhadia University, Udaipur (Rajasthan, India), during October 9 -11, 2006.

(iii) State Level (09):

- ◆ Resource person and course coordinator in the 'Summer Research Camp' organised jointly by PRASANSA Foundation, Gujarat and Department of Education, Union Territory Administration of Dadra Nagar Haveli and Daman Diu, India during 17-23 May 2023.
- ◆ Resource person in the 'State Level Teacher's Training Workshop on Eco Eureka Kit', organised by Science Centre (Gwalior) Madhya Pradesh under collaboration with National Council for Science & Technology Communication (NCSTC), Dept. of Science and Technology, Govt. of India, at Bhopal, India during 27-31 August, 2021.
- ◆ State Level Workshop on 'Conservation and Management Prioritization (CAMP) for the

Medicinal Plants of Rajasthan,' organized by the Rajasthan Forest Department and Foundation for revitalization of Local Health Traditions, Bangalore, at Forestry training institute, Jaipur, Rajasthan, India during September 10 -13, 2007.

- ◆ State level Workshop on 'Faunal and Floral Diversity of Rajasthan: Importance and Conservation', organized by Society for Research in Ecology and Environment in collaboration with Forest Dept. Keoladeo National Park, Bharatpur and MSJ P.G. College, Bharatpur, at Keoladeo National Park, Bharatpur, India during December 27-28, 2006.
- ◆ 31st Rajasthan geographical Association Conference, organized by Dept. of Geography, Maharana Pratap Govt. College, Chittorgarh, Rajasthan, India during December 19 -21, 2004.
- ◆ 24th Rajasthan Economic Association Conference & National Seminar on Public Economics,' organized by the Dept. of Economics, ML Sukhadia University Udaipur, Rajasthan, India during January 17-19, 2003.
- ◆ Regional Workshop on 'Patent Awareness,' organized by Patent Information Centre, Dept. of Science and Technology, Government of Rajasthan at Bhilwara, India on November 28, 2001.
- ◆ Entrepreneurship Awareness Camp-2001 on 'Entrepreneurship in Rural Energy & Non-Conventional Energy Sector', organized by Entrepreneurship Development Cell, Mohanlal Sukhadia University, Udaipur, Rajasthan, India on August 27, 2001.
- ◆ Regional Workshop on 'Organic Farming: Production & Marketing.' Sponsored by National Institute of Agricultural Marketing, Govt. of India & organized by DST Regional Office, Udaipur & M R Morarka G.D.C. Rural Research Foundation, Jaipur, at Jaipur, India during August 20-26, 2001.

❖ **PAPER PRESENTATION (18):**

- ◆ 'Role of Geo-spatial Approach for Mapping, Monitoring and Conservation of Sacred Groves', during 46th National Conference of the Rajasthan Geographical Association, organised by Dept. of Geography, Maharana Pratap Government College, Chittorgarh, Rajasthan, India, 10-12 January, 2019.
- ◆ 'Baseline of Potential Oran Sites through Geospatial Tools & Techniques', during National Workshop on 'Conservation of Community Conserved Areas (ICCAs); Orans/Charnots', jointly organised by INTACH and Mehrangarh Museum Trust, Fort, Jodhpur, at Jodhpur, Rajasthan, India, 15-16 July, 2017.
- ◆ 'Nesting Ecology of Indian Sarus Crane (*Grus antigone antigone*) in Chittaurgarh District, Southern Rajasthan', during National Seminar on 'Biodiversity, Conservation and Eco Tourism', organized at Dept. of Botany, Maharana Pratap Government P.G. college, Chittorgarh, Rajasthan, India, 27-28 September, 2016.
- ◆ 'Chlorophyll and Carotenoid Content in Some Plant Species in Jhunjhunu District, Rajasthan', during National Symposium on 'Conservation of Nature and Natural Resources', organized by Telangana Students Forum and Biological Resource Persons Association, Wanaparthy, Telangana, India, 21-22 January, 2015.

- ◆ 'Ecological Forecasting and Disease Early Warning Systems: In Context of Anthropogenic Influences on Climate Change,' during National Seminar on 'Interdisciplinary Approach in Science in Emerging Scenario,' organized at Vaish College, Bhiwani, Haryana, India on 16th March, 2013.
- ◆ 'Chlorophyll and Carotenoid Content in Some Plant Species in Jhunjhunu District, Rajasthan,' during National Seminar on 'Interdisciplinary Approach in Science in Emerging Scenario,' organized at Vaish College, Bhiwani, Haryana, India on 16th March, 2013.
- ◆ 'Snake Diversity of Jhunjhunu District, Rajasthan, India,' during National Seminar on 'Recent Trends in Biodiversity of India,' organized at Dept. of zoology, Govt. Degree & PG College, Wanaparthy, Andhra Pradesh, India, January 27-28, 2013.
- ◆ 'Flora of Jaisamand Wildlife Sanctuary, Udaipur, Rajasthan, India,' during National Conference on 'Conservation of Biodiversity in India, Some Issues', organized at Dept. of Botany, Arts and Commerce Girls' College, Raipur, Chhattisgarh, India October 16-17, 2012.
- ◆ 'Diversity of Avian Fauna of Reserve Forest Block (Beed), Jhunjhunu, Rajasthan, with Special Reference to Migratory Species,' during National Seminar on 'Ecotoxicology, Impacts and Challenges on Biodiversity', organized at Vinodini P.G. College, Khetri, Jhunjhunu, Rajasthan, India, February 26-27, 2011.
- ◆ 'Including Environmental Education in the Dogma for Sustainable Development and Better Economics,' during National Seminar on 'Environmental Economics: Theory and Policy' and 31st conference of Rajasthan Economics Association, at MLV Shramjeevi College, JNRNV University, Udaipur, India, February 4-6, 2011.
- ◆ 'Birding in Sewage Wetlands of Jhunjhunu City, Rajasthan,' during National Seminar on 'Conservation and Utilization of Natural Resources and their Role in Sustainable Development,' Organized at Seth Moti Lal P.G. College, Jhunjhunu, Rajasthan, India, October 18-19, 2008.
- ◆ 'Higher Education Scenario in India; Need for Private Sector Participation in Bringing Excellence,' during National Seminar on 'Quality Assurance in the Institutions of Higher Education,' Organized at Seth Moti Lal P.G. College, Jhunjhunu, Rajasthan, India, August 3-4, 2008.
- ◆ 'Water Birds at Lake Fatehsagar of Udaipur, Rajasthan: Past and Present Status, Challenges and its Significance,' during National Conference on 'Environmental Science: Current Status and Emerging Challenges.' Organized by the Department of Botany, ML Sukhadia University, Udaipur, Rajasthan, India, November 16-17, 2007.
- ◆ 'Flora of the Jaisamand Wildlife Sanctuary with special reference to Invasive Alien Species,' during 'XXIX Conference of Indian Botanical Society', at Dept. of Botany, M L Sukhadia University, Udaipur, India, October 9-11, 2006.
- ◆ 'Status of Biodiversity in Jaisamand Wildlife Sanctuary: Past and Present', during National Symposium on 'Emerging Trends in Plant Biology, Environmental Protection and Biotechnology', at Dept. of Botany, M L Sukhadia University, Udaipur, India, October 9-11, 2006.
- ◆ 'Priority Areas for Conservation of Species: A Case Study of Jaisamand Wildlife Sanctuary', during National Symposium on 'Emerging Trends in Plant Biology, Environmental Protection

and Biotechnology’, at Dept. of Botany, M L Sukhadia University Udaipur, India, October 9-11, 2006.

- ◆ ‘Climate Change and Infectious Diseases, Need for Ecological Forecasting and Disease Early Warning System’, during ‘31st Rajasthan Geographical Association Conference’ at Maharana Pratap Govt. P.G. College, Chittorgarh, India, December 19-21, 2004.
- ◆ ‘Environment & Development - An Economic view’, during ‘24th Rajasthan Economic Association Conference & National Seminar on Public Economics’ held at Dept. of Economics, Mohanlal Sukhadia University, Udaipur, India, January 17-19, 2003.

❖ **WEBINARS OF ACADEMIC AND PROFESSIONAL IMPORTANCE (21):**

(i) International Webinars (09):

- International webinar on ‘Biodiversity Conservation and Sustainable Development’, organised by Dept. of Botany, Govt. Madhav Sadashivrao Golwalkar College, Rewa (M.P.) India, from 25 to 29 August, 2023.
- International webinar on ‘Socio-cultural, Archaeological, Natural, Geo Heritage Sites, monuments and Museums: Identification, Conservation, Management’, organised by Dept. of Botany, Govt. Madhav Sadashivrao Golwalkar College, Rewa (M.P.) India, from 22nd February to 1st March, 2023.
- ‘Co-Creation Workshop: Collective Intelligence for Sustainable Development: Getting Smarter Together’, hosted by the United Nations Development Program (UNDP) Accelerator Labs under the fifth SDG Global Festival of Action, powered by the United Nations Sustainable Development Goals Action Campaign, on 25th March 2021.
- ‘Co-creation Workshop: Accelerate2030 – Partnerships for Circular Economy’, hosted by Impact Hub – Accelerate2030 under the fifth SDG Global Festival of Action, powered by the United Nations Sustainable Development Goals Action Campaign, on 25th March 2021.
- Webinar on ‘Measuring the Ecological and Economic Effectiveness of Restoration from Baseline Biodiversity Data’ (under the webinar series Ecosystem Restoration: Global Initiatives in Science and Practice), hosted by the Ecosystem Restoration Thematic Group of the International Union for the Conservation of Nature’s Commission on Ecosystem Management (IUCN CEM), on 19th March 2021.
- Two-day ‘Leadership for Gender Equality Summit- A South Asia Event’, organised by the British Council during 17-18 March 2021.
- Webinar on the ‘Grasslands of Central India’, under ninth edition of the Community Conserved Areas in South Asia webinar, hosted by Indigenous Community Conserved Areas (ICCA) South Regional Coordination Committee, on 9th March 2021.
- South-Asia and South-East Asia Regional Dialogue on Gender and Food Systems - ‘Women, Work and Food Systems’ (to discuss and deliberate the nexus of Women, Work and Food systems for the informal sector women and smallholder producers). Online dialogue jointly organised by Self Employed Women’s Association (SEWA), Regional

Community Forestry Training Center for Asia and the Pacific (RECOFTC) and International Food Policy Research Institute (IFPRI) on 4th March 2021.

- 'Guidelines for Planning and Monitoring Corporate Biodiversity Performance', webinar organised by IUCN, the World Conservation Union, on 27th August, 2020.

(ii) National Webinars (13):

- National webinar on 'Urban Ethnobotany in India: Prospects and Challenges', organised by FRLH Herbarium and Raw Drug Repository of Medicinal Plants used in Indian System of Medicine, Centre for Conservation of Natural Resources, TDU, Bengaluru, on 18th September 2021.
- National webinar on 'Ecological Importance of Snakes', organised by Dept. of Botany & NSS Unit-III, Telangana Botanical Garden, Dr. BRR Govt. Degree College, Jadcherla, Telangana on 16th July 2021.
- National virtual consultation on 'Design and Functionalities of a Multi-faceted Citizens' Portal on Medicinal Plants', hosted by Tans-Disciplinary University, Bangaluru, under the preparatory phase project of the National Mission on Biodiversity and Human Well-Being which is one of the nine national missions identified by the Prime Minister's Science, Technology and Innovation Advisory Council (PM-STIAC) to address major scientific challenges and is hosted by the Ministry of Environment, Forest and Climate Change with the National Biodiversity Authority, India, on 27th March 2021.
- National webinar on 'Fly Ash Utilization in India', organised by Centre for Science and Environment, New Delhi, India, on 10th March 2021.
- National webinar on 'Life of Rivers – Rivers for Life: Restoring Flows and Maintaining Connectivity', organised by World Wide Fund for Nature (WWF India), on 28th August 2020.
- National webinar on 'Project Dolphin: Conservation of Cetacean Fauna in India with Special Reference to Ganges River Dolphin', organised by Gangetic Plains Regional Centre, Zoological Survey of India on 26th August 2020.
- Live Webinar on 'Future Tiger Conservation in India', organised by SAGE Foundation, Kolkata, on 23rd August, 2020.
- National webinar on 'Relevance of Ethnobotany in Contemporary Socio-Economic Conditions', organised by S.K. Jain Institute of Ethnobiology & School of Studies in Botany, Jiwaji University, Gwalior (M.P.), on 14th August 2020.
- National webinar on 'Wildlife Conservation in India: Current Trends of Wildlife Crimes', organised by IQAC & Dept. of Zoology, Jagannath Kishore College, Purulia in Collaboration with Wildlife Crime Control Bureau (Eastern Region), Ministry of Environment, Forest and Climate Change, Govt. of India, on 13th August 2020.
- Webinar on 'Importance of Tiger Habitat & Corridors – for Future Conservation of Tigers in India', organised by SAGE Foundation, Kolkata, on 29th July, 2020.
- National webinar on 'Boosting Immunity with Indian Traditional Medicines (ITM) to combat COVID-19', hosted by Madhya Pradesh Council of Science and Technology, Bhopal, India, on 07th July 2020.

- National webinar on 'Ex-Situ Conservation of Threatened Angiosperm Plants', organised by NATUCARE, India on 24th May 2020.

❖ **INVITED LECTURES (both offline & online) (14):**

- 'Value Addition in Indigenous Plants for Food and Nutrition', delivered on 3rd November 2023 during national seminar on 'Women Empowerment and Entrepreneurship Development with S & T Interventions', organized by National Academy of Science, India (NASI), at Pacific Academy of Higher Education and Research University, Udaipur, India, 3-4 November, 2023.
- 'Study and Documentation of Biodiversity for Better Conservation Strategies – Examples of Some Grassroots Level Works Done in Forest Divisions of Rajasthan', delivered on 28th August in the international webinar on 'Biodiversity Conservation and Sustainable Development', organised by Dept. of Botany, Govt. Madhav Sadashivrao Golwalkar College, Rewa (M.P.) India, from 25 to 29 August, 2023.
<https://www.youtube.com/watch?v=i36LdJSMctU> (2:49:55 to 4:01:24 Hr.)
- 'History of Wildlife in Mewar (Southern Rajasthan, India) from Early Stages of Life in Precambrian Era to Recent History', delivered on 26th February in the international webinar on 'Socio-cultural, Archaeological, Natural, Geo Heritage Sites, monuments and Museums: Identification, Conservation, Management', organised by Dept. of Botany, Govt. Madhav Sadashivrao Golwalkar College, Rewa (M.P.) India, from 22nd February to 1st March, 2023.
<https://www.youtube.com/live/vE5K42XHnGs?feature=shared> (4:01:34 to 4:48:12 Hr.)
- ◆ 'Importance of Nature Conservation and Environment Protection', lecture delivered in the webinar organised by Indian National Trust for Art and Cultural Heritage (INTACH), Udaipur Chapter and Dept. of Geology, Mohanlal Sukhadia University, Udaipur, India on the occasion of 'World Nature Conservation Day', on 28th July 2021.
- ◆ 'Ecological Importance of Snakes', lecture delivered in National Webinar on 'Ecological Importance of Snakes', organised by Dept. of Botany & NSS Unit-III, Telangana Botanical Garden, Dr. BRR Govt. Degree College, Jadcherla, Telangana, India on 16th July 2021.
<http://www.youtube.com/watch?v=8WaEtRHilLo> (3:24 to 56:44 Min.)
- ◆ 'Forest and Health: How Can We Ensure Our Good Health with Protection and Propagation of Forests', lecture delivered in the webinar organised by Science Centre (Gwalior) Madhya Pradesh, India under the 'Year of Awareness on Science & Health (YASH)' program on 6th July 2021.
- ◆ 'Ecosystem for Sustainable Living', lecture delivered in online Teachers Orientation Workshop 2021, for Children Science Congress, organised by Kalyan Pradeshik Lok Vigyan Kendra (Kalyan Regional Community Science Centre), Bhavnagar, Gujarat, India on 01st July 2021. <https://youtu.be/3AzOj2Ne5uU> (1:49:00 to 2:35:40 Hr.)

- ◆ 'Alien Invasive Species in Rajasthan: An Invited Threat to Native Biodiversity', lecture delivered in the one week state level online short term training/workshop on 'Initiatives for Teaching-Learning Excellence in Environmental Studies', jointly organised by Commissionerate of College Education, Government of Rajasthan, Jaipur and Department of Geography, Government Arts College, Sikar, India, under Gyan Ganga program on 06th March 2021.
- ◆ 'Alien Invasive Species in India: An Ignored but Great Threat to Native Biodiversity', lecture delivered online on Facebook page of 'Indian Science Communicators' Group' on 20th October, 2020.
(<https://www.facebook.com/104822724576632/videos/687831168519303>).
- ◆ 'Alien Invasive Species in Rajasthan: An Invited Threat to Native Biodiversity', lecture delivered in webinar on 'Natural Heritage: Problems and Management', organised by Nature Eco Club, Government Meera Girls College, Udaipur, Rajasthan, India on 05th October 2020.
- ◆ 'Go Wild for Life: Zero Tolerance for the Illegal Wildlife Trade': lecture delivered at the Institute of Engineers (India) Udaipur Center, Udaipur, India on the occasion of World Environment Day, 5th June 2016.
- ◆ 'Environmental Education: An Inevitable Subject to Study'; lecture delivered at Seth Moti Lal Teacher's Education College, Jhunjhunu, on August 28th, 2012.
- ◆ 'Environmental Degradation and its Impact on Wildlife'; lecture delivered during one-day seminar on Environmental Degradation and Wildlife Conservation, organized by NCC Head Quarter Churu, at Seth Moti Lal P.G. College, Jhunjhunu, August 04, 2010.
- ◆ 'Invasive Alien Flora in Rajasthan,' lecture delivered during State level Workshop on 'Faunal and Floral Diversity of Rajasthan: Importance and Conservation', at Keoladeo National Park, Bharatpur, Rajasthan, December 27-28, 2006.

❖ **RADIO TALKS / ONLINE TALKS ON SCIENTIFIC AND ENVIRONMENT CONSERVATION ISSUES:**

- ▶ 'Jal Jagat Aur Matsya Vividhta' (Water World and Fish Diversity – water bodies in Rajasthan, their types and distribution in the state, fish diversity in Rajasthan, issues related to fish conservation, human impacts on fish species, fishermen communities, and conservation of fishes etc.) at Radio Madhuban 107.8 FM
<https://www.youtube.com/watch?v=EQe1m9bvJ9M>
- ▶ 'Plantation Operations and Techniques', episode-1 (collection of seeds, raising of plant nursery, selection of species in reference to the landscape and climate, techniques of plantation and maintenance), at Radio Madhuban 107.8 FM
<https://www.youtube.com/watch?v=iapyhhBTtWE&list=PLRx5TNDmTsHaCWlZj-qkE-xbvtP4fZxaX&index=2>
- ▶ 'Plantation Operations and Techniques', episode-2 (selection of plant species, native species, sites preparation for plantation, planting techniques and further monitoring), at Radio Madhuban 107.8 FM
https://www.youtube.com/watch?v=cb_Is6TqLS0&list=PLRx5TNDmTsHaCWlZj-qkE-xbvtP4fZxaX&index=1

- ▶ ‘Aravali Ki Kahaani’, episode-1 (The Story of Aravali mountains – their evolutionary history, geological and geographical past and present and ecological importance), at Radio Madhuban 107.8 FM
<https://www.youtube.com/watch?v=vyIJ2NJyBqI&list=PLRx5TNDmTsHaCWlZJ-gkE-xbvtP4fZxaX&index=5>
- ▶ ‘Aravali Ki Kahaani’, episode-2 (The Story of Aravali mountains – their importance in determining and regulating the distribution of different ecosystems and biodiversity in Rajasthan), at Radio Madhuban 107.8 FM
<https://www.youtube.com/watch?v=hpb74KrIRXk&list=PLRx5TNDmTsHaCWlZJ-gkE-xbvtP4fZxaX&index=6>
- ▶ ‘Aravali Ki Kahaani’, episode-3 (The Story of Aravali mountains – their importance in determining and regulating the distribution of wildlife in Rajasthan, issues of human practices and their impacts on biodiversity etc), at Radio Madhuban 107.8 FM
<https://www.youtube.com/watch?v=xebNjNMMMUY&list=PLRx5TNDmTsHaCWlZJ-gkE-xbvtP4fZxaX&index=4>
- ▶ ‘Aravali Ki Kahaani’, episode-4 (The Story of Aravali mountains – forest fires in Aravali mountains and other parts of Rajasthan state, their types, causes, impacts and human role etc), at Radio Madhuban 107.8 FM
<https://www.youtube.com/watch?v=eBZnrNwYGz8&list=PLRx5TNDmTsHaCWlZJ-gkE-xbvtP4fZxaX&index=3>
- ▶ ‘Ozone Layer: Its Importance, Depletion of Layer and Measures for Augmentation’, lecture delivered in the webinar organised by Science Centre (Gwl.) Madhya Pradesh, India, under the ‘Year of Awareness on Science & Health (YASH)’ program on 16th September 2021.
<https://www.youtube.com/watch?v=j8-KWoLcYD4>
<https://www.naidunia.com/madhya-pradesh/shajapur-shajapur-news-webinor-online-ozone-7040571>

❖ AWARDS AND HONORS:

- ◆ **Baal Vigyan Sancharak Samman** (Children Science Communicator Awarde) by Voluntary Institute for Community Applied Sciences (VICAS), Prayagraj, Uttar Pradesh, India for contribution at various levels in the National Children Science Congress programs of the NCSTC-DST, Govt. of India. Awarded on 03 December, 2023 at Mirzapur, Uttar Pradesh, India.
- ◆ **Vigyan Ratna** Award by Science Centre (Gwl.) Madhya Pradesh, Bhopal, India for outstanding leadership and contribution for the popularising of science in community and leaders of science in different states of India. Awarded on 19 December, 2022 at Chhatarpur (M.P.), India.
- ◆ **Van Prahari** (Forest Guard) award by Dept. of Forest, Jhunjhunu (Rajasthan) India, at District Level for significant contribution in Plant Protection & Forest Conservation in 2013.
- ◆ **5th** Position in the University merit of master degree in Environmental Sciences, 1999.
- ◆ NSS Member award 1998-99, from Science College Wing, Mohan Lal Sukhadia University Udaipur, India.

- ◆ 3rd Prize at centre level in Environment Quiz, conducted by Dept. of Environment and Forest, Govt. of Rajasthan, India, 1999.
 - ◆ Consolation prize in All Rajasthan CAL Aptitude Test by Computer Consultancy and Accounting Analysis (CAL) Ltd., India, 1998.
 - ◆ First prize in quiz during Wildlife Week -1988 organized by wildlife Division, Dept. of Forest, Udaipur.
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