

## Curriculum Vitae

### Dr. P.D. Charan

UGC NET & JRF, IARI-NET, RSET

Assistant Professor

**(Environmental Science)**

**Official Address:** Department of Environmental Science

Maharaja Ganga Singh University, Bikaner-334004

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CONTACT INFORMATION	Department of Environmental Science Maharaja Ganga Singh University Bikaner, India-334004	0151-2212044(O) +91-9530253838(Mob) prabhuenviron@gmail.com
AREA OF WORK	Environment and Ecology, Biodiversity, Pesticide residue analyses, Heavy metal Analyses, Remote sensing and GIS application, Environmental analysis (water, soil, air), ecological studies, EIA etc	
RESEARCH EXPERIENCE	Twelve years of experience (including Ph.D.) in research and teaching as well as good knowledge of phyto-diversity with special reference to arid and semi arid regions of Rajasthan.	
RESEARCH PROJECTS	➤ Principal Investigator of a Research Project on <b><i>Phyto-Diversity assessment from Mangla Oil Field (Barmer, Rajasthan) to Bhogat Terminal (Jamnagar, Gujarat)</i></b> . It was a consultancy project for Cairn India Limited, which is exploring crude oil in the Thar desert of the western India. Total fund of the Project was <b>INR 16,00,000/-</b> . The duration of the project was 2013-2017. <b>The project is completed and the final report is submitted to CIL in March, 2017.</b>	
	➤ Principal Investigator of the National level Project under the <b><i>ISRO Geosphere Biosphere Program-National Carbon Project- Vegetation Pool Assessment Project</i></b> . The funding Agency for the project is NRSA (ISRO), Department of Space and total fund for the project is <b>INR 14, 59,000/-</b> . <b>The project is completed and the final report is submitted to NRSC, ISRO, Hyderabad in March, 2019.</b>	
	➤ I was actively associated with the collaborative National Project (2008-2011) on <b><i>'Biodiversity Characterization at Landscape Level using Remote Sensing and GIS'</i></b> . The project was sponsored by the National Remote Sensing Agency, ISRO-Government of India, Hyderabad. Objective was to characterize biodiversity and collection of the phytosociological data at assigned sample points.	

## ACADEMIC PROFILE

Examination	Subject	Board/University	Year	Division & %
Ph.D	Environmental Sciences	M.D.S.U.,Ajmer	2011	-
PGDISHE	-	M.D.S.U.,Ajmer	2011	I <sup>st</sup> (81%)
M.Sc.	Environmental Sciences*	M.D.S.U.,Ajmer	2005	I <sup>st</sup> (75.57%)
B.Sc.	Life Science	M.D.S.U.,Ajmer	2003	I <sup>st</sup> (65.24%)
XII	Biology, Chemistry, Physics	Board of Secondary Education, Ajmer, Rajasthan	1997	I <sup>st</sup> (65.54%)
X	-	CBSE, New Delhi	1995	II (~50%)

## TRAINING PROGRAM / FACULTY DEVELOPMENT PROGRAM (Not Less than One Week)

S. No.	Programme	Duration	Organizer
1	NRDMS- DST Winter School in Geospatial Technologies (Level 1)	Three Weeks (25 November – 15 December 2019)	Department of Geography, MLSU, Udaipur and Natural Resources Data Management System-DST, Government of India, New Delhi
2	HRDC- UGC Sponsored Refresher Course on Application of ICT in Science (Environmental Science)	Three Weeks (11 June 2018 - 01 July 2018)	Sardar Patel University Vallabh Vidhaynagar, Anand Gujrat
3	UGC Sponsored Short-Term Course	One week (13 <sup>th</sup> -18 <sup>th</sup> February, 2017)	HRDC, Maharishi Dayanand Saraswati University, Ajmer
4	Refresher Course	21 Days (15 May 2015 - 04 June 2015)	Devi Ahilya University, Indore
5	Orientation Program	28 Days (08 July 2018 - 03 August 2013)	University of Rajasthan, Jaipur
7.	Training on Remote sensing Application	15 days (25 <sup>th</sup> March, 2010- 8 <sup>th</sup> April, 2010)	National Remote Sensing Centre(ISRO), Hyderabad
8.	Summer training on analysis of water quality parameters	30 days (15 <sup>th</sup> May,2004–15 <sup>th</sup> June, 2004).	Environmental Survey Lab., BARC, Rawatbhata

## AWARDS AND ACHIEVEMENTS

1. Member, Board of **Studies (BOS)** of Environmental Science, Maharaja Ganga Singh University (Bikaner)
2. Organised A National Webinar on Applications of GIS and Remote Sensing in Environmental Science. 11 Feb, 2021 in the Department of Environmental Science under the Aegis of IQAC, MGSU, Bikaner
3. Received **Young Scientist Award-2016** for contribution in the field of Environmental Science on the occasion of national seminar on „Agriculture resource management for sustainability and eco-restoration” organized by SAAER, ICAR-CIAH, Bikaner (March,11-13, 2016)
4. **Organized a National Seminar** on “Current Trends in Environmental Research (NSCTER-2015)”, 28 Feb.-2 March, 2015 in the Department of Environmental Science at MGSU Campus, Bikaner (**As Organizing Secretary**).
5. **Organized a National Seminar** on “Environmental Management Technologies (NSEMT-2017)”, 8<sup>th</sup> -9<sup>th</sup>, March, 2017 in the Department of Environmental Science at MGSU Campus, Bikaner (**As Organizing Secretary**).
6. Received **Junior Research Fellowship award** followed by **Senior Research Fellowship awards** of UGC, New Delhi.
7. Received **Young Geographer Award- 2009** for the contribution in the field on the occasion of 37th RGA national conference on climate change & resource development, 11-13 September, 2009.

## PUBLICATIONS

### **(A) IN NATIONAL / INTERNATIONAL JOURNALS / PROCEEDINGS:**

1. G. K. Meghwanshi, N. Kaur, S. Verma, N. K. Dabi, A. Vashishtha, **P. D. Charan**, P. Purohit, H.S. Bhandari, N. Bhojak and Rajender Kumar (2020). Enzymes for Pharmaceutical and Therapeutic Applications. *Biotechnology and Applied Biochemistry*, 586-601
2. Mahendra Singh, Rajaram Choyal, Ashwani Kumar and **P.D. Charan** (2020). Distribution of Blackbuck (*Antelope Cerviakra*) and its Conservation strategies in Hanumangarh District of Rajasthan, India. *Indian Forester*, 146(10):952-955.
3. Mahendra Singh, R.R. Choyal and **P.D. Charan** (2019). Determination of Heavy Metals in Cow (*Bos indicus*) Dung Collected from Hanumangarh District, Rajasthan, India. *International Research Journal of Biological Sciences*, 8(6), 23-27.
4. **P.D. Charan** and Mahendra Singh (2018). Invasive Alien Species of Flora of the Thar Desert of Bikaner Division. *Journal of Emerging Technologies and Innovative Research*, 5(4):566-572

5. **P.D. Charan** and K.C. Sharma (2017). Comparative Assessment of the Effects of Selected Organophosphate Pesticides on Cauliflower and Cabbage Crops Grown in Ajmer, Rajasthan. *Indian Journal of Environmental Protection* 37(4):298-304.
6. **P.D. Charan** (2017). An assessment of environmental noise pollution in Bikaner city of western Rajasthan, India. *International Journal of Life Sciences and Technology*, 10(3):33-37.
7. **P.D. Charan** and K.C. Sharma (2016). Floral Diversity of Thar Desert of Western Rajasthan, India. *J. Phytol Research*, 29(1&2):55-71.
8. K.C. Sharma, R. Bhardwaj and **P.D. Charan** (2016). Climatic Variability and Changing Landscapes of Central Aravali Region of Rajasthan. *Climate Change and Environment*, 111-125.
9. **P.D. Charan** and K.C. Sharma (2016). Endosulfan Toxicity in Vegetables Grown in and Around Ajmer and its Possible Effect on Human Health. *Middle-East Journal of Scientific Research* 24 (8): 2597-2601.
10. **P.D. Charan**, Mahendra Singh, P. Rakhecha, A. K. Jakhar, K.S. Bithoo and Manoj K. Meena (2015). Study of heavy metals concentration in ground water samples collected from Bikaner city, Rajasthan. *International Journal of Emerging Research and Management Technology*, 2(5): 14-18.
11. Mahendra Singh, R.R. Choyal, K. Soni and Ashwani Kumar Jakhar, G.K. Meghwanshi, and **P.D. Charan** (2015). Study of Heavy Metals in Soil, Water and Some Crops of Sri Ganganagar (Rajasthan), India. 28(1&2): 39-45.
12. **P.D. Charan** and A. Vashistha, G.K. Meghwanshi (2015). An Overview of Trichoderma Interactions with Pathogens and Plants. *J. Phytol. Res.*, 28 (1&2):15-23.
13. **P.D. Charan**, Ashwani K. Jakhar, Mahendra Singh, Karni Singh Bithoo and Manoj K. Meena (2014). Analysis of some Heavy Metals in waste water irrigated vegetables grown in Bikaner city, Rajasthan. *Journal of Applied Phytotechnology in Environmental sanitation*, Volume 3(1): 29-34.
14. **P.D. Charan** and Hemalata Sahal (2014). Study of Respirable Dust in Ambient Air of Bikaner City and Its Impact on Human Health, *Applied Journal of Hygiene*, 3 (1): 11-14.
15. C. Sudhakar Reddy, S. L. meena, P. Hari Krishna, **Prabhu D. Charan** and K. C. Sharma (2012). Conservation Threat Assessment of *Commiphora wightii* (Arn.) Bhandari- an Economically Important Species. *Taiwania*, 57(3): 288-293.
16. C. Sudhakar Reddy, S.L. Meena, P. hari Krishna, **P.D. Charan**, K.C. Sharma (2012). Conservation Threat Assessment Of *Commiphora Wightii* (Arn.) Bhandari- An Ecologically Importance Spices. *taiwania*, 57(3):288-293.
17. **P.D. Charan**, Ali, S.F. Kachhawa, Yati and Sharma, K.C. (2010). Monitoring of pesticide residues in farmgate vegetables of central Aravalli region of western India. *American-Eurasian J. Agric. & Environ. Sci.*, 7(3): 255-258.

18. **Charan P.D.**, Sharma R, Sharma K.C. (2010). Gas chromatographic analysis of organochlorine pesticides in Lake Anasagar of Ajmer, Rajasthan (India). J Environ Sci Eng. 52(1):37-40, 2010.
19. **Charan, P.D.** and Sharma, K.C. (2009). Analysis of residual pesticides in surface and ground water samples of central Aravalli region of Rajasthan. International journal of Bioscience reporter, 7(1): 15-20.
20. C.S. Reddy, P. Hari Krishna, V. Sweta, T.Shivakala and **Prabhu D. Charan** (2010). Assessment and monitoring of spatio-temporal changes in keoladeo Ghana national park, Rajasthan, India using Geoinformatics. Journal of Wetland Ecology, 4: 33-42.
21. **Prabhu Dan Charan**, Anil Patni, Bhupendra Soni, Manoj Kumar Meena and K.C. Sharma (2009).Hexachlorohexane (HCH) Isomer Residues In Soils Of Ajmer Region, Rajasthan. Indian Journal of Environmental Sciences, 13(2): 153-156.
22. Sharma, K.C., Chouhan, C.S., **Charan, P.D.** and Nag, M. (2009). Water quality and restoration practices of lake budha pushkar – a threatened water body of Ajmer, Rajasthan. The Ecoscan, 3(1&2): 53-58.
23. Mudita Nag, Ruchira Bhardwaj, K.C. Sharma and **P.D. Charan** (2010). Environmental Impacts of Tourism at Religious Places- A case study of Pushkar (Rajasthan). Indian Journal of Applied Hospitality and Tourism Research, (2): 11-17.
24. Sharma, K.C., **Charan, P.D.** and Nag, Mudita. (2009). An integrated restoration plan for lake Anasagar: A threatened water body of Ajmer, Rajasthan, India. Proceedings of 13th World Lake Conference, 1-5 November, Wuhan, China. (wldb.ilec.or.jp/data/ilec/WLC13\_Papers)
25. Surendra Verma, Manju Rani, **Prabhu Dan Charan** and K.C. Sharma (2009). Ambient air quality in urban environment of Ajmer, Rajasthan.Proceedings of CETAS-2009 (9-11 Feb. 2009).
26. Subroto Dutta, Manoj k. Meena, **Prabhu Dan Charan** and Hemraj Chhipa. (2009). Heavy metals in lake Anasagar of Ajmer, Rajasthan. Indian Journal of Environmental Sciences, 13(2): 171-174.
27. **Prabhu Dan Charan**, Anil Patni and K.C. Sharma (2008). Pesticide contamination in Lake Anasagar of Ajmer, Rajasthan.,In: Sengupta,M. Dalwani,R. (eds), proceedings of TAAL,2007,The 12th World Lake Conference,pp-360-365.

**(B) ARTICLES/ CHAPTERS PUBLISHED IN BOOKS:**

S. No	Title with Page no.	Book Title, editor & publisher	ISSN/ ISBN No
1.	A Narrative Review on Current Scenario of Ambient Air Pollution in India (Page no. 135-137)	Diamond English Essays	ISBN:1637819153
2.	Assessment and Monitoring of Spatio-Temporal changes in Lake Anasagar of	Environment Management-Challenges and Conservation, In: J.B.	ISBN: 978-659-57593-8

	Ajmer affected by Agricultural activities. (Page No 23-34)	Khan(Ed.) Environment Management-Challenges and Consevation, LAP Lambert Academic Publishing, Saarbrucken, Deutschland/Germany	
3.	Medicinal flora of the Thar desert of Rajasthan: Therapeutic and antimicrobial importances. (Page no. 399-412).	Microbs: in Action (Editors: Joginder Singh & Praveen Gehlot), Agrobios (India) Jodhpur	ISBN: (13): 978- 81-7754-576-0

**(C). PAPERS PRESENTED IN CONFERENCES, WORKSHOPS & SEMINARS ETC:**

S. No	Title of the Paper presented	Title of Conference / Seminar with date	Organizer	Level of the conference/seminar
1	Study on Contamination of heavy metals in waste water irrigated vegetables in Bikaner city.	The 11 <sup>th</sup> Anniversary India-Japan International Conference, BICON-2016, October, 20-22, 2016.	Biyani group of colleges, Jaipur and Japan Advanced Institute of Science and Technology (JAIST), Saitama University (Japan)	International
2	Study on Environmental Noise Pollution in Bikaner city and its impact on human health	UGC sponsored National Conference on Biotechnology for Sustainable Development. December, 23-24, 2016.	Maharishi Dayanand College, Sriganganagar (Rajasthan)	National
3	Evaluation of Environmental education and its challenges: An Indian perspective	National Seminar on national policy on education 2016: Issues, challenges and suggestions. 17 <sup>th</sup> October, 2016.	Dept of History, MGSU Bikaner	National
4	Study on Medicinal Plants of The Thar Desert of Bikaner Division, Rajasthan.	National seminar on Agriculture resource management for	SAAER, ICAR-CIAH, Bikaner	National

S. No	Title of the Paper presented	Title of Conference / Seminar with date	Organizer	Level of the conference/seminar
		sustainability and eco-restoration, March,11-13, 2016		
5	Study on population growth and its impacts on environment with special reference to Rajasthan	National seminar on Overpopulation and its effects on environment (January, 15-16, 2016)	ICSSR New Delhi and GMMS, Shivsinghpura, Sikar.	National
6	Vegetation of Thar desert of Rajasthan and their medicinal values: A review	National Seminar on Current trends in Environmental Research, February, 28 <sup>th</sup> -March, 2 <sup>nd</sup> , 2015	Dept of Environmental Science, MGSU Bikaner	National
7	Heavy metal contamination in vegetable grown by waste water in Bikaner, Rajasthan	National conference on Energy and Environmental Engineering, 26-27 April, 2014.	Manda institute of technology, Bikaner	National
8	Introduction to analytical techniques used in environmental Sciences	Workshop on current challenges in Environmental Sciences, 26, January, 2013.	Dept. of Environmental Science, MDS University Ajmer and Dept. of Environmental Science, MGS University Bikaner	University
9	Assessment of Repairable Dust Load in Bikaner City and its Impact on Human Health.	National seminar on the status of environment and biodiversity: Rio + 20 and role of space technology, November,2-3, 2012	Department of Zoology and Environmental Science, Gurukula Kangri University, Haridwar	National

S. No	Title of the Paper presented	Title of Conference / Seminar with date	Organizer	Level of the conference/seminar
10	An assessment and remedial measures for organochlorine pesticides in lake Budha Pushkar, Ajmer (Rajasthan)	National Seminar on Environmental management & Biodiversity conservation (Present status and future strategy), 06-07 <sup>th</sup> October, 2012.	Govt. Lohia PG College, Churu (Rajasthan)	National
11	A note on biological diversity of Thar Desert of Western Rajasthan (India).	National conference on biodiversity depletion: causes, consequences and solutions, 28-29 <sup>th</sup> September, 2012.	Dept of Botany, MLV Govt. College, Bhilwara, Rajasthan	National
12	Environmental education & its importance in present scenario	National symposium on interrogating new worlds of English teaching, 24-25 February, 2012	ELTI, Bikaner and MGSU Bikaner.	National
13	Pesticide residue analysis in vegetable grown in and around Ajmer, Rajasthan	International Conference on Advances in Environmental Research, 19-21 Nov., 2011	MGS University, Bikaner	International
14	Assessment of floral diversity of Aravalli hills of Ajmer region.	12 <sup>th</sup> National conference of society of Science and Environment, 9-10 <sup>th</sup> October, 2010.	Dept of Zoology, MS University, Baroda (Gujarat)	International
15	Determination of pesticide residues in cumin collected from	National consultation on seed spices	National Research Centre on Seed Spices,	National



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	local food market of Ajmer, Rajasthan	biodiversity and production for export- Perspective, potential, threats and their solutions, 7 <sup>th</sup> July, 2010.	Tabiji, Ajmer & Indian Society of Seed Species	
16	Restoration Practices of lake Budha Pushkar: A case study of threatened water body of Ajmer. National	37 <sup>th</sup> RGA national conference on climate change & resource development, 11-13 September, 2009	Dept of Geography, SBNMM, Jaipur	National
17	Assessment of Organochlorine pesticides in the lake Anasagar of Ajmer, Rajasthan	International Conference on changing environmental trends & Sustainable development, 9-11 February, 2009.	Guru Jambheshwar University, Hisar	International
18	Analysis of various pesticides in lake Anasagar of Ajmer, Rajasthan	36 <sup>th</sup> RGA national Conference on Changing geographies and Quest for sustainability, 26-28 September, 2008.	Rajasthan Geographical Association	National
19	Pesticides contamination in lake Anasagar of Ajmer	12 <sup>th</sup> World Lake Conference- TAAL-2007 (28 <sup>th</sup> Oct. – 2 <sup>nd</sup> Nov.,2007) Jaipur	ILEC, Japan and MoEF, New Delhi	International

<b>S. No</b>	<b>Title of the Paper presented</b>	<b>Title of Conference / Seminar with date</b>	<b>Organizer</b>	<b>Level of the conference/seminar</b>
20	Plant biodiversity in Aravalli hills of Ajmer	Seminar on biodiversity around Aravalli foot hills in the vicinity of Ajmer (Rajasthan). 28 <sup>th</sup> March, 2006.	Dept of Zoology, MDS University, Ajmer.	University