

BIO-DATA**Dr. Devendra Kumar Patel**

Associate Professor,

Department of Botany,

Guru Ghasidas Vishwavidyalaya, (A Central University),

Bilaspur (Chhattisgarh) – India.

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e- mail -: dplantscience@yahoo.co.in**1. PERSONAL INFORMATION :**

- **Name** : **Dr. DEVENDRA KUMAR PATEL**
- **Father's Name** : Shri S. R. Patel
- **Domicile** : Chhattisgarh
- **Nationality** : Indian

2. EDUCATIONAL QUALIFICATION:

S. No.	Examination	Year	Board/ University	Subject	Division
1.	H.S.C. (10 th)	1994	M. P. Board, Bhopal	Science, Mathematics, Hindi, English, Sanskrit, Social- Science.	I
2.	H.S.S.C. (12 th)	1996	M. P. Board, Bhopal	Biology, Chem., Physics, Hindi, English.	I
3.	B.Sc. (Bio.-CBZ)	1999	G. G. University, Bilaspur (C.G.)	Botany, Zoology, Chemistry, F. Course.	I
4.	M.Sc. (Pre.) Botany	2000	G. G. University, Bilaspur (C.G.)	Algae + Bryophyta, Fungi + Plant Pathology, Pteridophyta + Gymno., Angiosperm	I
5.	M.Sc.- Botany (Aggregate)	2001	G. G. University, Bilaspur (C.G.)	Cytology + Genetics, Plant - Physiology + Biochemistry, Environmental Biology & Forest Ecology	I
6.	NET	2004			
7.	Ph. D. – Botany	“Study on Nutrient Removal Potential of Some Aquatic plants from Domestic wastewater.” Pt. Ravishankar Shukla University, Raipur - 2007.			

3. DISTINCTION: (In K.G. Arts and Science College Raigarh (C. G.).

- Academic position held : Secretary, Botanical Society - 2000 and President, Botanical Society - 2001.
- **Gold Medal Awarded for securing first position** in merit list of **M. Sc. Botany – 2001.**
- N. S. S. “**B**” Certificate.

3. HONOUR :

- Honoured by Marwadi Yuva Manch Raigarh (C.G.) for distinction in PG. (*Placed 1st in order of Merit in M. Sc. - Botany*).
- Honored by K. G. Arts and Science College, Raigarh for first position in Merit.

4. FELLOWSHIP:

- Selected as JRF (*Project Fellow*) in C. COST sponsored project for 2003 - 05.
- Selected for Pt. Ravishankar Shukla University Research Fellowship in 2003.

7. PRESENT POSITION:

Associate Professor, Department of Botany,
Guru Ghasidas Vishwavidyalaya, (A Central University), Bilaspur (Chhattisgarh) – India

8. A. FIELD OF INTEREST : - Plant Ecology, Ethnobotany
- Diversity/Conservation of the Plants,

- Current Research Activity –
 - 1) Conservation of Medicinal and Aromatic Plants (MAPs).
 - 2) Diversity Study of the Plants,

9. EXPERIENCE –

A. Teaching - 10 Year, 5 Month

B. *2 years as a Research Project fellow* (September 2003- October 2005) in *Chhattisgarh Council of Science and Technology* Research project.

10. BOOKS PUBLISHED: a. INTERNATIONAL

S. No.	Book Name	PUBLISHER	ISBN No. -
1.	Medicinal and Aromatic Plants : Diversity and Vegetation Propagation	OMICS Group, USA	978-1-63278-039-3-040
2.	A Digital Herbarium Book – I on Medicinal and Aromatic Plants	OMICS Group, USA	978-1-63278-039-3
3.	Herbal Garden : For Ex-situ conservation of Medicinal and Aromatic Plants	Lap Lambert, Academic Publishing, Germany	978-3-659-76467-7
4.	Compendium of Medicinal and Aromatic Plants	Scholars Press, Omni Scriptum Gmbh & Co. KG	978-3-659-84395-2

b. NATIONAL

S. No.	Book Name	PUBLISHER	ISBN No. -
1.	Medicinal and Aromatic Plants : Diversity and Uses in Chhattisgarh	Akinic Publication, New Delhi	978-93-5335-645-3
2.	Plant and Plantation in Central India	Akinic Publication, New Delhi	978-93-5335-633-0

11. DISSERTATION IN PG GUIDED/COMPLETED - 06**12. ORIENTATION – 01 & REFRESHER COURSES - 03**

S. No.	Title of Training	Organizer	Duration
1.	4 th Orientation Programme, 2012.	Academic Staff College (ASC), G. G. V. Bilaspur (C. G.)	26 - 11 – 2012 To 22 – 12 - 2012
2.	Refresher Course - Methodology in Social Sciences and Pure and Applied Sciences (Interdisciplinary).	UGC-HRDC, GGV- Bilaspur (C. G.)	18 November to 09 December 2015
3.	Refresher Course - Synthetic and Natural products: Chemical and Medicinal Aspects	UGC-HRDC, GGV- Bilaspur (C. G.)	11 June 2018 to 02 July 2018
4.	Refresher Course – Environmental practices for sustainable Development.	UGC-HRDC, GGV- Bilaspur (C. G.)	24 June 2019 to 06 July 2019

13. MEMBERSHIPS**1. INTERNATIONAL MEMBER - 01**

S. No.	Society
1.	Commission member of IUCN (International Union for Conservation of Nature and Natural Resources) – SSC (Species Survival Commission) - Medicinal Plants Specialist Group (MPSG).

2. LIFE MEMBER – NATIONAL - 05

S. No.	Society
1.	(MAPAI) Medicinal and Aromatic Plants Association of India, Anand – (Gujarat)
2.	(IAAT) Indian Association for Angiosperm Taxonomy, Calicut – (Calicut),
3.	(ISCA) Indian Science Congress Association, - Kolkata – (West Bengal)
4.	(SPTB) Society for Promotion of Tropical Biodiversity – Jabalpur (M. P.)
5.	(IBS) Indian Botanical Society

14. MEMBERS OF DIFFERENT COMMITTEES IN GGV – BILASPUR (C. G.)

S. No.	Name of Committee etc.
1.	Unnat Bharat Abhiyan (UBA)
2.	Garden Development Committee - G.G.V. - Bilaspur, (C. G.).
3.	Horticulture Development Committee- G.G.V. - Bilaspur, (C. G.).
4.	Member of “One Student One Tree” Programme at G.G.V. - Bilaspur, (C. G.). as per instruction of UGC-New Delhi
5.	Member of Editorial Board for Preparation of Annual Report of G. G. V. – Bilaspur (C. G.) in 2008 -2009 and 2009 – 2010 etc.

15. RESEARCH PAPERS :

S. No.	Research Paper	Year	ISSN No.
1.	DK Patel , Kanungo, V. K., and Verma, J. N. Domestic wastewater Treatment by using a water chestnut (<i>Trapa bispinosa</i>). Journal of Aquatic Biology, 20 (2), 211 – 215	2005	ISSN – 0971-4235
2.	Kamlesh Shriwas, Kavita Agarwal and DK Patel A Spectrophotometric determination of Ascorbic Acid. Journal of Chinese Chemical Society. 52 (3) : 503-506.	2005	0009 - 4536
3.	DK Patel . VK Kanungo. Phytoremediation of domestic wastewater by using a free floating aquatic plant <i>Pistia stratiotes</i> L. Nature, Environment and Pollution Technology 5 (1), 101-106	2006	ISSN- 0972 - 6268
4.	VK Kanungo, JN Verma, DK Patel . Physico-Chemical Characteristics of Doodhadahri pond of Raipur, Chhattisgarh Ecology environment and conservation 12 (2), 207	2006	ISSN - 0971-765X
5.	DK Patel and VK Kanungo. Phytoremediation potential of duckweed (<i>Lemna minor</i> Linn.: a tiny aquatic plant) in the removal of pollutants from domestic wastewater with special reference to nutrients, Bioscan 5 (3), 355-358	2010	ISSN- 0973 - 7049
6.	DK Patel and Kanungo, V. K. Ecological efficiency of <i>Ceratophyllum demersum</i> Linn in phytoremediation of nutrients from domestic wastewater, The Ecoscan (Int. Journal) 4 (4), 257 – 262.	2010	ISSN- 0974 - 0376
7.	DK Patel . Medicinal plants in GGV campus, bilaspur, Chhattisgarh in central India, International Journal of Medicinal and Aromatic Plants 2 (2), 293-300	2012	ISSN- 2249 - 4340
8.	DK Patel and R Mehta. Diversity of aquatic plants in some ponds of ratanpur,distt.- bilaspur,(chhattisgarh) in central india, Flora and Fauna(Jhansi) 18 (2), 191-200	2012	ISSN- 0971-6920
9.	DK Patel . Study on medicinal plants with special reference to family Asteraceae, Fabaceae and Solanaceae in GGV-Campus, Bilaspur (CG) in central India. Current Botany 3 (4): 34-38.	2012	ISSN- 2220-4822
10.	DK Patel . Medicinal plants used for diabetes and for dental problem	2012	ISSN –

	in central part of Chhattisgarh, India. Journal of Phytology 4 (3):40-44.		2075 – 6240
11.	DK Patel and VK Kanungo. Study on growth, potential utility and NPP of a submerged aquatic plant <i>Hydrilla verticillata</i> Casp. Journal of Experimental Sciences 3 (5): 48-50.	2012	ISSN – 2218 – 1768.
12.	DK Patel. Vegetation structure and composition in Guru Ghasidas Vishwavidyalaya in Central India. International Journal of Biodiversity and Conservation 4 (15), 621-632	2012	ISSN – 2141 – 243X
13.	DK Patel and VK Kanungo - Comparative eco-physiological potential of a submerged and a free floating aquatic plant to treat domestic wastewater. Journal of Ecobiotechnology 4 (1)	2013	ISSN – 2077 – 0464.
14.	DK Patel and VK Kanungo Treatment of domestic wastewater by potential application of a submerged aquatic plant <i>Hydrilla verticillata</i> Casp. Recent Research in Science and Technology 4 (10) : 56-61	2013	ISSN – 2076 - 5061
15.	DK Patel. <i>Trichosanthes cucumerina</i> L.-: Life Pattern and Morphological Variations, Journal of Medicinal Plants Studies, 1 (1) 1-5.	2013	ISSN 2320- 3862
16.	DK Patel. Some Traditional Medicinal Plants Useful for Boil, Burn and for Wounds Healing Biodiversity & Endangered Species 2 (4), 1-4,	2014	ISSN: 2332- 2543
17.	DK Patel. Diversity of Climber and Creeper Medicinal and Aromatic Plants with Special Reference to Their Regeneration in Herbal Garden for Ex-situ Conservation. Int. J. Curr. Res. Biosci. Plant Biol. 2014, 1(4): 67-73 1 (4), 67-73	2014	ISSN: 2349- 8072
18.	DK Patel. Herbaceous medicinal & aromatic plants diversity and introduction in herbal garden for ex-situ conservation. International Journal of Herbal Medicine 2 (3), 17-20	2014	ISSN: 2394- 0514
19.	DK Patel. Vegetative propagation using Stem cutting and Morphology of <i>Angelonia angustifolia</i> Humb & Bonpl. International Journal of Applied Research 2014; 1(1): 6-8	2014	ISSN – 2394- 7500
20.	DK Patel. Introduction of Some Tree Species of Medicinal and Aromatic Plants (MAPs) in Herbal Garden for Their Ex-situ Conservation, Universal Journal of Plant Science 3 (1), 9 -12	2015	ISSN: 2332- 3450
21.	DK Patel. Aromatic plants diversity showing their propagation by seeds for ex-situ conservation in herbal garden. Journal of Pharmacognosy and Phytochemistry 3 (5), 152 – 156	2015	ISSN: 2278- 4136
22.	DK Patel. Study on multiplication of <i>Plumbago zeylanica</i> L. using stem cutting in herbal garden, Journal of Medicinal Plants Studies 3 (6), 89-92	2015	ISSN 2320- 3862
23.	DK Patel. Regeneration of <i>Bacopa monnieri</i> (L.) Pennell in Herbal garden, Journal of Medicinal Plants Studies 3 (6), 12-15	2015	ISSN 2320- 3862
24.	DK Patel. . <i>Adhatoda vasica</i> Linn: Performance of stem cutting in rapid vegetative propagation in herbal garden. International Journal of Biology Research 1 (1), 40-46	2016	ISSN: 2455- 6548
25.	DK Patel. <i>Tinospora cordifolia</i> (Willd.) Miers ex Hook. F and Thoms: An important medicinal, climber plant and its multiplication in Herbal garden for ex-situ conservation, International Journal of Botany Studies 1 (2), 24-31	2016	ISSN: 2455- 541X
26.	DK Patel. <i>Crinum asiaticum</i> Linn: A Medicinal Herb as Well as	2017	ISSN –

	Ornamental Plant in Central India. Int J Environ Sci Nat Res. 6 (1), 1-7	2572-1119
27.	DK Patel. <i>Paederia Foetida</i> Linn.: A Potential Climbing Medicinal Herb in Central India. Int J Environ Sci Nat Res 6 (5): 1-7	2017. ISSN – 2572-1119
28.	DK Patel. Stem cutting propagation of <i>Helicteres isora</i> Linn. in herbal garden. 96 International Journal of Advanced Research and Development 2 (5), 96-99	2017. ISSN – 2455-4030
29.	DK Patel. Mass vegetative propagation of an aromatic medicinal plant <i>Melissa officinalis</i> Linn for Exsitu conservation in Herbal Garden. Journal of Medicinal Plants Studies 6 (1), 6-10	2018. ISSN – 2320-3862
30.	DK Patel. <i>Diplocyclos palmatus</i> (L.) Jeffrey: Morphological variations and medicinal values. Journal of Medicinal Plants Studies 6 (1), 3-5	2018. ISSN – 2320-3862
31.	Durgesh Dixena and D. K. Patel. Morphology and Medicinal values of <i>Cardiospermum helicacabum</i> Linn. Flora and Fauna, 25 (2): 167-176.	2019 ISSN-0971-6920
32.	Durgesh Dixena and D. K. Patel. Plants as a source of Medicine among the tribes residing in Kota block of Bilaspur district, C. G., India, Flora and Fauna 25 (2): 195 – 203.	2019 ISSN-0971-6920

16. DETAILS OF PAPER PRESENTED/ATTENDED IN CONFERENCES/ SEMINAR /WORKSHOP etc. -

S. NO.	CONFERENCES/ SEMINAR /WORKSHOP	NUMBER
1.	INTERNATIONAL LEVEL –	05
2.	NATIONAL LEVEL –	20
3.	STATE LEVEL – CHHATTISGARH –	05
4.	LOCAL/UNIVERSITY LEVEL -	02

17. MEMBER, EDITORIAL BOARD OF RESEARCH JOURNAL/S –

S. No.	Journal/s	ISSN No.
1	<i>American Journal of Life Sciences (AJLS)</i>	ISSN:2328-5702 (Print)ISSN:2328-5737 (Online)
2	INTERNATIONAL JOURNAL OF CURRENT RESEARCH IN BIOSCIENCES AND PLANT BIOLOGY - an International journal – nov. 2014	(Print ISSN: 2349-8072, Online ISSN: 2349-8080)
3	International Journal of Herbal Medicine	Online ISSN: 2321-2187 . Print ISSN: 2394-0514
4	Journal of Medicinal Plants Studies	Online ISSN: 2320-3862 Print ISSN: 2394-0530

5	<i>Journal of Bioremediation and Biodegradation</i>	ISSN: 2155 – 6199
6	<i>Journal of Today's Biological Sciences : Research and Review (JTBSRR)</i>	ISSN: 2320 -1444
7	<i>Journal of Medicinal and Aromatic Plants</i>	ISSN: 2167–0412
8	<i>Journal of Agro-technology</i>	ISSN: 2168-9881
9	<i>Eurasian Journal of Forest Science</i>	ISSN: 2147-7493
10	Universal Journal of Plant Science	ISSN:10131892
11	Journal of Biodiversity and Endangered species	ISSN: 2332-2543
12	<i>Journal of Plant Sciences (JPS)</i>	ISSN:2331-0723 (Print)ISSN:2331-0731 (Online)

18. RESEARCH PAPERS REVIEWED – 21

19. ONGOING RESEARCH FOR Ph. D. - 01

S. No.	Scholar	Title	Registration No	Roll No.
1.	Durgesh Dixena	“Ethnobotanical Studies of Medicinal Plants in the region of Tribes, Kota, Chhattisgarh”	1551435001	15921001

20. RESEARCH PROJECT COMPLETED - 01. Project Title – “Ex – situ Conservation of important Medicinal and Aromatic Plants (MAPs) Resources from Chhattisgarh in Guru Ghasidas Vishwavidyalaya (A Central University) Campus, Bilaspur (C.G.)”. Financial Assistance (Approved amount Rs. 6.00 Lakhs) , Released amount - 5, 40, 000=00, PI – Dr. Devendra Kumar Patel, Funding Agency – UGC, New Delhi, Worth in lakhs- Six lakh,

- Sanction letter no –No. – F. 20 – 17 (3)/2012 (BSR), Dated : 8 March, 2013,
(Start up grant UGC-New Delhi,)
- Under the above research project an **HERBAL GARDEN** has been developed in GGV campus aimed for Ex-situ conservation of the Medicinal and Aromatic plants of Chhattisgarh.
- **"About Herbal Garden : Developed in GGV campus Bilaspur Chhattisgarh"**

A Herbal Garden has been developed under a start up grant of Rs. Six lacks sanctioned to me from UGC-New Delhi for two year.

Under this project, in Guru Ghasidas Vishwavidyalaya campus Bilaspur (A Central

University) - Chhattigarh, India back side of the department has been marked (with proper permission of the Administration) and as per need of the Herbal Garden Fencing (Chain linked fencing with Iron pole for long durability) around the area made for protection of MAPs. There are Four Water Tanks were also made for proper supply of water to the Medicinal and Aromatic Plants (MAPs).

Additional to the above construction one shade with net developed for protection of the sensitive MAPs. The area is also utilized as a small scale propagation of the MAPs as well as for Ex-situ conservation in Herbal Garden. Plant propagules were collected from different parts of the Chhattigarh state and bring in Herbal garden for their introduction aimed for Ex-situ conservation. Simultaneously seed collection also followed for MAPs to regenerate them in coming season. Introduction of the MAPs in Herbal Garden continuously going on.

Dr. Devendra Kumar Patel