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| Dr. Santosh Kumar Prajapati  M.Sc.; Ph.D. (BHU) |  | Professor (Direct)  Department of Botany  School of Studies of Life Science  Guru Ghasidas Vishwavidyalaya  Bilaspur, 495009, (C.G.)  Mob: 09479168632  Email:santoshk.p@ggu.ac.in  sntshprjpt@rediffmail.com |

**Chancellor’s Nominee** inShaheed Mahendra Karma Vishwavidyalaya, Jagdalpur, C.G

***Research grants mobilized:***

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| SN | Title | Funding agencies | Amount (in lacs) |
| 1 | **ANRF- PAIR (Category B) 2025** project entitled “Indigenous approaches to address future challenges in energy, soil productivity, antimicrobial resistance and human health- (**FN- ANRF/PAIR/2025/000003/PAIR-B**) PD- Dr Raj Kishore Sharma, *Hub Institution- University of Delhi* **(as PI from GGV, Bilaspur)** | DST | 230.00 |
| 2 | Impact assessment of invasive species on structure and function of native vegetation and social livelihood  **(as Co-PI)** | CCOST | 4.40 |
| 3 | **DST PURSE 2024** project entitled “Design Development and validation of Traditional Medicines used by Baigas of Chhattisgarh for the Effective Management of SCD in Central India” (**SR/PURSE/2024/330**) by Prof. Santosh Kumar Prajapati (**Coordinator and PI**) | DST | 857.00 |
| 4 | A Socio-Technical Framework for Resilient and Sustainable Water Management for Smart Cities: A Study of Urban Rajasthan. **ICSSR-VB-2024-4620 (as Co-PI)** | ICSSR | 80.00 |
| 5 | **FIST Program – 2023** in level B Category (**SR/FST/LS-I/2023/1188** ) by Prof. Santosh Kumar Prajapati (Coordinator & PI) | DST | 168.00 |
| 6 | Studies of organisms in the benthic zone of Hasdeo River and impact of proposed ash dyke on Riparian Vegetation and community in the river basin (Tender Ref No : **NTPC/Korba STPS/9900245529**) **(as PI)** | NTPC, Korba | 10.00 |
| 7 | Effects of heavy metals/metalloids contamination of soils on micronucleus induction in *Tradescantia* and on microbial enzyme activities **F.No. 41-428 (2012) SR (as PI)** | UGC | 8.08 |
| 8 | Heavy Metal Speciation of DustDeposited on Plant Leaves and its Effect on Biochemical Parameters of Leaf **No.F.20-18 (3) 2012 (BSR) (as PI)** | UGC | 6.00 |
| 9 | Effects of heavy metals/metalloids contamination of sewage on micronucleus in *Allium cepa* and on microbial enzyme activities **(as PI)** | DBT | 26.90 |

##### **PhD** *Supervised***- one** (01)

1. Dr Neelima Meravi on Topic “Ecological Impacts of Heavy Metals in the Vicinity of NTPC, Sipat”

##### *Ongoing*- **four** (04)

##### (02 DST-Inspire, 02 working professional, 01- UGC fellowship)

##### **Honors/Awards**

* AwardedDBT RGYI, 2012.
* Awarded Dr. D.S. Kothari Postdoctoral Fellowship by UGC, (May, 2009**)**
* Awarded Extended SRF in Earth Sciences (2008) by CSIR, New Delhi.
* Awarded CSIR-JRF in Life Sciences (2004).

**Administrative/Academic responsibilities:**

* Director, R & D Cell, GGV vide order No. 1737/Estt/Adm/2025 dated 04-06-2025
* Head, Department of Botany, GGV vide OM No. 4448/Estt/Adm/2024 dated 13-12-2024
* Member- Academic Planning, Development and Monitoring Board, GGV vide OM No.468 dt. 14-05-2025
* Member- Socio Economically Disadvantaged Group (SEDG) Cell, GGV vide order No. 1446/Estt/Adm/2025 dated 09-05-2025
* Director- International Guest House & Jawahar Sadan Guest House, GGV vide notification no. 1787/Estt/Admn/2023 dated 24-04-2023
* Member- Internal Quality Assurance Cell (IQAC), GGV vide SN. 1399/Estt/Admn/2023 dated 14-03-2023

**Member Academic Bodies:**

* **Board of Studies in Botany**, Central University of Punjab vide Ref. No. CUPB/MB/BoS/2025/48 F.N. LS/1-2/RDC/CUHP/21/413-423dated 02-05-2025
* **Research Doctoral Committee (RDC),** Department of Plant Sciences**,** Central University of Himachal Pradesh date 18-11-2024
* **School Board for the School of Studies of Life Sciences** (Guru Ghasidas Vishwavidyalaya) vide Ref. No. 57/Academic/2023 dated 28-04-2023.
* **Board of Studies in Botany**, Guru Ghasidas Vishwavidyalaya (2011-2017)
* **Board of Studies in Botany**, Sarguja University, Ambikapur, C.G. (2019)

**Member Statutory Bodies:**

* **Standing Committee of Academic Council**, Guru Ghasidas Vishwavidyalaya vide Notification no. 311/Meeting Cell/ 2025 dated 01-01-2025
* **Academic Council** Guru Ghasidas Vishwavidyalaya vide Notification No. 292/Meeting Cell/2024 dated 18-12-2024
* **Standing Committee of Academic Council**, Guru Ghasidas Vishwavidyalaya vide Notification no. 05/Meeting Cell/ 2024 dated 06-01-2024
* **Academic Council** Guru Ghasidas Vishwavidyalaya vide Notification No. 03/Meeting Cell/2024 dated 06-01-2024
* **Court of the University** (Guru Ghasidas Vishwavidyalaya) vide O.M. no. 293/Court/Meeting Cell/2022 dated 11-05-2022
* **Executive Council** of Guru Ghasidas Vishwavidyalaya vide O.M. no. 291/meeting cell/EC/2022 dated 05-05-2022
* **Standing Committee of Academic Council**, Guru Ghasidas Vishwavidyalaya vide Notification no. 198/Meeting Cell/ 2021 dated 11-12-2021
* **Academic Council** Guru Ghasidas Vishwavidyalaya vide Notification No. 175/Meeting Cell/2021 dated 28-10-2021 (2021-2024)

**Education**

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| SN | **Institution**  **/Boards** | **Degree** | **Year** | **Division** | **Field of Study** |
| 1 | BHU | Ph.D. | 2008 |  | Air Pollution & its impact on plants |
| 2 | BHU | M.Sc | 2004 | 1st | Botany (Stress & Terrestrial) |
| 3 | Purvanchal | B.Sc. | 2001 | 1st | Botany and Chemistry |
| 4 | CBSE | 12th | 1998 | 1st | Science |
| 5 | CBSE | 10th | 1996 | 1st | Science |

#### Position and Employment (Starting with the most recent employment)

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| SN | **Institution** | **Position** | **From** | **to** |
| 1 | Guru Ghasidas Vishwavidyalaya | Professor | 20/02/23 | Cont… |
| 2 | Guru Ghasidas Vishwavidyalaya | Associate Professor | 25/09/21 | 20/02/23 |
| 3 | Guru Ghasidas Vishwavidyalaya | Assistant Professor | 10/08/09 | 25/09/21 |

**List of Publications**

1. Meravi, N., Piparia, C., Verma, A., Singh, P.K., **Prajapati, S.K**. 2023. Photosynthetic chlorophyll fluorescence response of *Tradescantia pallida* exposed to different heavy metals alone and in combination. *Proceedings of the International Academy of Ecology and Environmental Sciences*, 13(4): 148-157
2. Singh, P K., **Prajapati, S.K**., Kumari, S., Chaturvedi, R.K. 2022. Disturbance induced changes in diversity of medicinal plants in a dry tropical forest of India. *Frontiers in Forests and Global Change*, 4:718930. doi: 10.3389/ffgc.2021.718930.
3. Mehta A, Kumar Ratre Y, Sharma K, Soni VK, Tiwari AK, Singh RP, Dwivedi MK, Chandra V, Prajapati SK, Shukla D and Vishvakarma NK (2021) Interplay of Nutrition and Psychoneuroendocrineimmune Modulation: Relevance for COVID-19 in BRICS Nations. *Front. Microbiol*. 12:769884. doi: 10.3389/fmicb.2021.769884
4. Meravi, N., Singh, P.K., **Prajapati, S.K.** 2021. Seasonal variation of dust deposition on plant leaves and its impact on various photochemical yields of plants. *Environmental Challenges*, 4, 100166.
5. Meravi, N., **Prajapati, S.K**., 2020. Seasonal variation in chlorophyll a fluorescence of *Butea monosperma*. *Biological Rhythm Research*, 51:6, 879-886.
6. Meravi, N., **Prajapati, S.K**., 2020. Temporal variation in chlorophyll fluorescence of different tree species. *Biological Rhythm Research*, 51:3, 331-337.
7. Meravi, N., **Prajapati, S.K**., 2020. Effect street light pollution on the photosynthetic efficiency of different plants. *Biological Rhythm Research*, 51:1, 67-75.
8. Ahirwar, R. K., Prajapati, S. K., 2020. Ethnobotanical study of medicinal plants used by the tribes of district Dindori, Madhya Pradesh, Central India. Chhattisgarh Journal of Science and Technology, 17:4, 85-89.
9. Meravi, N., **Prajapati, S.K.** 2019. Reclamation of fly ash dykes using naturally growing plant species. *Proceedings of the International Academy of Ecology and Environmental Sciences*, 9:4, 137-148.
10. **Prajapati, S.K.,** Sharma, K., Singh, P.K. 2018. Plant diversity in tropical dry deciduous forests of Jashpur, Chhattisgarh with special reference to their ethnomedicinal uses. *Tropical Ecology*, 59:3, 505–514.
11. Meravi, N., **Prajapati, S.K**., 2018. Genotoxicity assessment of soil contaminated by metals/metalloids using *Tradescantia pallida*. *East African Scholars Journal of Agriculture and Life Sciences*, 1:1, 17-21.
12. **Prajapati, S.K.,** Meravi, N., 2015. Effect of fly ash on the photosynthetic parameters of *Zizyphus mauritiana*. *Advances in Forestry Letters*, 4: 1-5
13. Meravi, N., **Prajapati, S.K**., 2014. Effects of heavy metals/metalloids present in fly ash from coal fired thermal power plant on photosynthetic parameters of *Mangifera indica.* *Environmental Skeptics and Critics*, 3:4, 88-92.
14. **Prajapati, S.K.,** Meravi, N., 2014. Heavy metal speciation of soil and *Calotropis* *procera* from thermal power plant area. *Proceedings of the International Academy of Ecology and Environmental Sciences*, 4:2, 68-71.
15. Meravi, N., **Prajapati, S.K**., 2013. Effects of heavy metals/metalloids contamination of soils on micronucleus induction in *Tradescantia pallida*. *Environmental Skeptics and Critics*, 2:2, 58-62
16. **Prajapati, S.K.**, 2012.Biomonitoring and speciation of road dust for heavy metals using *Calotropis procera* and *Delbergia sissoo.* *Environmental Skeptics and Critics,* 1:4, 61-64*.*
17. **Prajapati, S.K**., 2012. Ecological effect of airborne particulate matter on plants. *Environmental Skeptics and Critics*, 1:1, 12-22.
18. Meravi, N., Singh, S., **Prajapati, S.K**., 2012. Phytoremediation of chromium and cobalt Using *Pistia stratiotes:*a sustainable approach. *Proceedings of the International Academy of Ecology and Environmental Sciences,* 2:2, 136-138.
19. **Prajapati, S.K.,** Tripathi, B.D. 2009. Distribution of vehicular pollutants in street canyons of Varanasi, India: a different case. *Environmental Monitoring and Assessment.* 148:1-4, 167-172.
20. **Prajapati, S.K.,** Tripathi, B.D. 2008. Assessing the Genotoxicity of Urban Air Pollutants in Varanasi City Using Tradescantia Micronucleus (Trad-MCN) Bioassay. *Environment International.* 34:8, 1091-1096.
21. **Prajapati, S.K.,** Tripathi, B.D. 2008. Seasonal Variation of Leaf Dust Accumulation and Pigment Content in Plant Species Exposed to Urban Particulates Pollution. *Journal of Environmental Quality.* 37, 865-870.
22. **Prajapati, S.K**.; Tripathi, B.D., 2008. Anticipated Performance Index of Some Tree Species Considered for Green Belt Development in and around an Urban Area: a Case Study of Varanasi City, India. *Journal of Environmental Management*. 88:4, 1343-1349.
23. **Prajapati, S.K**.; Tripathi, B.D. 2008. Biomonitoring Seasonal Variation of Urban Air Polycyclic Aromatic Hydrocarbons (PAHs) Using *Ficus benghalensis* Leaves. *Environmental Pollution*. 151, 543-548.
24. **Prajapati, S.K**.; Tripathi,B.D.; 2007. Biomonitoring Trace-element Levels in PM10 Released from Vehicles Using Leaves of *Saraca indica* and *Lantana camara.* *AMBIO:* *A Journal of Human Environment*. 36:8, 704-705.
25. Pandey, S. K., Tripathi, B.D., Mishra, V.K., **Prajapati, S. K**., 2006. Size fractionated speciation of nitrate and sulfate aerosols in a sub-tropical industrial environment. *Chemosphere*. 63,49-57.

**Conference proceedings:**

1. **Prajapati, S.K.,** Meravi, N., 2015. Comparative Study on Effects of Heavy Metals/Metalloids Present in Fly Ash from Coal Fired Thermal Power Plant on Photosynthetic Parameters of *Ficus bengalensis* and *Plumeria rubra*. Pp.118-123. *In*: S N Tripathi (eds.) Proceedings of National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective, ISBN: 978-93-5235-335-4.
2. Meravi, N., **Prajapati, S.K**., 2015. Heavy Metal Speciation of Fly Ash Leachate and its Genotoxicity Assessment Using Trad-MCN Bioassay"".Pp. 147- 148. *In*: S N Tripathi (eds.) Proceedings of National Conference on Climate Change: Impacts, Adaptation, Mitigation Scenario and Future Challenges in Indian Perspective, ISBN: 978-93-5235-335-4.

**Books**

* **Prajapati, S. K.,** Vehicular Pollution: Biomonitoring and its Impact on Plants, Lap-Lambert Academic Publishing, Germany, ISSN: ISBN 978-3843372060

**Book Chapter**

* Meravi, N., **Prajapati, S.K.**, 2015. Biomonitoring the Genotoxicity of Heavy Metals/Metalloids Present in Soil Contaminated by Fly Ash from Coal-Fired Thermal Power Plant Using *Tradescantia pallida.* pp 169-176. *In*: Ansari, A.A., Gill, S.S., Newman, L., Lanza, G.R. (eds) Phytoremediation: Management of Environmental Contaminants Vol 1 Springer Publications, New York (ISBN 978-3-319-10394-5).

**Articles**

* E-letter Science (Native and Non-Native Species for Biofuels. *Science(2006;313:1742)*