


Profile of Dr

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Detail Profile

Education

Degree	Year of Passing	University/Institution
Ph.D	2022	SHUATS, Prayagraj, Uttar Pradesh, India
Ph.D	2013	(Withdraw) ICAR-Indian Agricultural Research Institute, New Delhi, India
M.Tech	2011	ICAR-Indian Agricultural Research Institute, New Delhi, India
B.Tech	2009	Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, India.

Professional History

Position	Year	Organization	
Scientist	January, 2016	Continue	ICAR-Indian Institute of Soil and Water Conservation, Dehradun (UK), India.
Assistant Professor	February, 2013	December, 2015	Navsari Agricultural University, Navsari, Gujarat, India

Publications (summary)

S. No	Publication	Number
1.	Journal	22
2.	Book Chapters	2
3.	Popular articles	24

Most important 5 Publications

1. Singh, D., Patra, S., Mishra, A. K., Mariappan, S., & Singh, N. (2022). Temporal variation of saturated and near-saturated soil hydraulic conductivity and water-conducting macroporosity in a maize-wheat rotation under conventional and conservation tillage practices. *Land Degradation & Development*, <https://doi.org/10.1002/ldr.4251>.
2. Patra, S., Kaushal, R., Singh, D., Kumar, R., Gadedjisso-Tossou, A., & Durai, J. (2022). Surface soil hydraulic conductivity and macro-pore characteristics as affected by four bamboo

species in North-Western Himalaya, India. *Ecohydrology & Hydrobiology*, 22(1), 188-196.

3. Singh, D., Mishra, A. K., Patra, S., Mariappan, S., & Singh, N. (2021). Near-saturated soil hydraulic conductivity and pore characteristics as influenced by conventional and conservation tillage practices in North-West Himalayan region, India. *International Soil and Water Conservation Research*, 9(2), 249-259.
4. Kumar, G., Sena, D. R., Patra, S., Singh, D., Kurothe, R. S., & Mishra, P. K. (2021). Design and development of a low-cost automatic runoff sampler for time distributed sampling. *Journal of Hydrology*, 592, 125845.
5. Singh D, Patel N, Gadedjisso-Tossou A, Patra S, Singh N and Singh PK. (2020) Incidence of escherichia coli in vegetable crops and soil profile drip irrigated with primarily treated municipal wastewater in a semi-arid peri urban area. *Agriculture*, 10:7, 291.

Google Scholar link

<https://scholar.google.com/citations?user=ddTbcSUAAAJ&hl=en>

ResearchGate link

Awards/Fellowships/Recognitions

S. No.	Name of the Award/Fellowship /Recognition	Awarding organization	Year of Award
1.	Indian Agricultural Research Institute Post Graduate fellowship from 2009-2011	Indian Agricultural Research Institute	2009
2.	Indian Agricultural Research Institute Ph.D. fellowship 2012	Indian Agricultural Research Institute	2012
3.	Best Poster Award	Academy of Natural Resource Conservation and Management, Lucknow (UP).	2020
4.	Merit Certificate	ICAR-IISWC, Dehradun	2017

Research Projects (On-going)

1. Co-Principal Investigator of project entitled “Consortia Research Platform - Water Theme 1 Water Resources Augmentation/ Conservation”, Institute funded, 2015-2022.
2. Principal Investigator of project entitled “Development and validation of a spatially explicit simulation framework to quantify runoff-erosion-carbon flux at watershed scale”, Institute funded, 2015-2019.
3. Principal Investigator of project entitled “Employing system approach on zero energy drip irrigation system in bench terrace farming for hill region”, Institute funded, 2017-2020.
4. Co-Principal Investigator of project entitled “Erosion Productivity Relationships for

- Evaluating Vulnerability and Resiliency of Soils under Different Agro Climatic Regions of India”, Institute funded, 2009-2019.
5. Co-Principal Investigator of project entitled “Role of Soil and Water Conservation Technologies for Climate Resilient Agriculture in Himalayan Ecosystem- An action research”, Institute funded, 2014-2019.
 6. Co-Principal Investigator of project entitled “Evaluation of rooting media and rootstocks of major sub- tropical fruits spp. for raising quality planting materials on degraded lands”, Funded by DST, 2017-2020.

Research Projects as PI (Concluded)

Other important responsibility

Membership of Scientific Societies:

1. Indian Association of Soil and Water Conservationists, India.
2. Indian Society of Agricultural Engineers, India.
3. Academy of Natural Resource Conservation and Management, Lucknow, India.

Reviewer/Referee in National and International Journal

1. **Agricultural Water Management (AWM)** Journal published by Elsevier.
2. **Irrigation and Drainage** Journal (International Commission on Irrigation and Drainage) published by Wiley & Sons.
3. **Water Resources Management (WRM)** Journal published by Springer Nature.
4. **Exposer and Health** published by Springer Nature.
5. **Journal of Experimental & Theoretical Artificial Intelligence** published by Taylor and Francis.
6. **Water Policy** Journal published by IWA Publishing (Official journal of the World Water Council).
7. **Agricultural Engineering International: CIGR** Journal published by International Commission of Agricultural and Biosystems Engineering (CIGR).
8. **Indian Journal of Soil Conservation** published by Indian Association of Soil and Water Conservationist, Dehradun
9. **Indian Journal of Agriculture Sciences** published by Indian Council of Agricultural Research.
10. **Indian Farming** Journal published by Indian Council of Agriculture Research.
11. **International Journal of Agricultural Policy and Research.**
12. **The Open Agriculture Journal.**

Consultancies

1. Principal Investigator of project entitled “Assessment of extractable river bed material from river Song I, II & III and Jakhan I & II, Dehradun” for the year 2018-19, Funded by Uttarakhand Forest Development Corporation, Dehradun (Uttarakhand).
2. Principal Investigator of project entitled “Assessment of extractable river bed material from river Dabka (Ramnagar)” for the year 2018-2019, Funded by Uttarakhand Forest

Development Corporation, Ramnagar (Uttarakhand).

3. Principal Investigator of project entitled “Assessment of river bed material from river Malan under Kotdwar range District Pauri Garhwal” for the year 2018-2019, Funded by Uttarakhand Forest Development Corporation, (Uttarakhand).
4. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Gola (Haldwani)” for the year 2018-2019, Funded by Uttarakhand Forest Development Corporation, Haldwani (Uttarakhand).
5. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Kosi (Ramnagar)” for the year 2018-2019, Funded by Uttarakhand Forest Development Corporation, Ramnagar (Uttarakhand).
6. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Nandhore and Kailash” for the year 2018-2019, Funded by Uttarakhand Forest Development Corporation, (Uttarakhand).
7. Co-Principal Investigator of project entitled “Assessment of river bed material from river Rawasan I & II and Kotawali, tributaries of Ganga in reserve forest of district Haridwar” for the year 2018-19, Funded by Uttarakhand Forest Development Corporation, Haridwar (Uttarakhand).
8. Co-Principal Investigator of project entitled “Replenishment study for extraction of river bed material from river Rawasan I & II and Kotawali, tributaries of Ganga in reserve forest of district Haridwar” for the year 2017-18, Funded by Uttarakhand Forest Development Corporation, Haridwar (Uttarakhand).
9. Co-Principal Investigator of project entitled “Replenishment study for extraction of river bed material from river reaches of Ganga at Bisanpur, Bhogpur, Shyampur and Chidiyapur in reserve forest of district Haridwar” for the year 2017-18, Funded by Uttarakhand Forest Development Corporation, Dehradun (Uttarakhand).
10. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Gola (Haldwani)” for the year 2017-2018, Funded by Uttarakhand Forest Development Corporation, Haldwani (Uttarakhand).
11. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Dabka (Ramnagar)” for the year 2017-2018, Funded by Uttarakhand Forest Development Corporation, Ramnagar (Uttarakhand).
12. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Kosi (Ramnagar)” for the year 2017-2018, Funded by Uttarakhand Forest Development Corporation, Ramnagar (Uttarakhand).
13. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Gola (Haldwani)” for the year 2016-2017, Funded by Uttarakhand Forest Development Corporation, Haldwani (Uttarakhand).

14. Co-Principal Investigator of project entitled “Assessment of extractable river bed material from river Kosi (Ramnagar)” for the year 2016-2017, Funded by Uttarakhand Forest Development Corporation, Ramnagar (Uttarakhand).