BIO-DATA

Name: Dr Dimple
Designation: Assistant Professor (Agricultural Engineering) at Sri Karan Narendra Agriculture University, Jobner-303329, Jaipur, Rajasthan (July, 2023-Present)
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ACADEMIC QUALIFICATION

DEGREE	INSTITUTE	YEAR	SCORE
PhD (Soil and Water Conservation Engineering)	CTAE, MPUAT, Udaipur, Rajasthan	2018-2022	8.42/10
M.Tech. (Soil and Water Conservation Engineering**)**	CTAE, MPUAT, Udaipur, Rajasthan	2015-2017	8.36/10
B.Tech. (Agricultural Engineering**)**	Dr.A.S.College of Agril.Engg. MPKV, Rahuri, Maharashtra	2011-2015	7.63/10

PROJECT TITLE

PhD.	Delineation of Groundwater Potential Zones and Indexing of Groundwater Quality of Nand Samand Catchment Using RS & GIS	July 2018-April 2022
M.Tech.	Effect Of Irrigation Regiems Under Mulch On Drip Irrigated Capsicum Crop Grown Under Naturally Ventilated Polyhouse	July 2015- Nov 2017

ACHIEVEMENTS/FELLOWSHIPS/AWARDS

- Recipient of **National Talent Scholarship (2011-2015)** by ICAR-AIEEA UG (2011).
- Recipient of **Post graduation fellowship for professional courses** by UGC, India (2015-2017).
- Recipient of **INSPIRE-Fellowship (2018-2022)** by Department of Science and Technology, Ministry of Science and Technology, Gov. of India.
- Selected for **TEQIP- III** project fellowship (2019).
- Awarded **University Gold Medal** for standing first in order of merit at the Master of Technology (Soil and Water Conservation Engineering) Examination of the Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan.
- Young Scientist Award-2022. 1st International Conference Global Initiatives in Research,

Innovation, and Sustainable Development of Agriculture and Allied Sciences.

- **NET (I)-2018** qualified in Land and Water Management Engineering conducted by the Agricultural Scientist Recruitment Board-ICAR.

PUBLICATION

Papers Published in National/International Journal

1. **Dimple,** Pradeep Kumar Singh, Sita Ram Bhakar, Mahesh Kothari and Kamal Kishore Yadav. **2022.** Determination of Aquifer Parameters By Using Aqtesolv-Software. *Ecology, Environment and Conservation.* 28, 2022, S294-S299, **(NAAS-5.05).** http://doi.org/10.53550/EEC.2022.v28i03s.044

2. **Dimple,** S. R. Bhakar, Jitendra Rajput, S. S. Lakhawat and M. Kothari. **2021**. Development of relationship between Capsicum crop evapotranspiration inside and outside naturally ventilated polyhouse. *ISAE-Agricultural Engineering Today***, (NAAS-4.45).** https://doi.org/10.52151/aet2020444.1526

3. **Dimple,** H. K. Mittal, P. K. Singh, K. K Yadav, S. R. Bhakar and Jitendra Rajput. **2022.** Groundwater quality parameters for irrigation utilization: A Review. *Indian Journal of Agricultural Sciences,* 92(7), 2022, 803-10. (**NAAS-6.30**). https://doi.org/10.56093/ijas.v92i7.114186

4. **Dimple,** P. K. Singh, S. R. Bhakar, M. Kothari, K. K. Yadav. **2022.** Identification of Artificial Recharge Sites for Nand Samand Catchment. *International Journal for Research in Applied Science & Engineering Technology (IJRASET).* 10(1), **UGC-care listed.**

5. **Dimple**, Jitendra Rajput, Nadhir Al-Ansari, Ahmed Elbeltagi, Bilel Zerouali and Celso Augusto Guimarães Santos. **2022.** Determining the Hydrological Behaviour of Catchment Based on Quantitative Morphometric Analysis in the Hard Rock Area of Nand Samand Catchment, Rajasthan, India. *Hydrology*, 9(2), 31 (**Cite Score-4.1. Scopus Indexed. Impact factor: 3.2, NAAS: 9.2**). https://doi.org/10.3390/hydrology9020031

6. **Dimple,** Jitendra Rajput, Nadhir Al-Ansari and Ahmed Elbeltagi. **2022.** Predicting irrigation water quality indices based on data driven algorithms: Case study in semi-arid environment. *Journal of Chemistry, 8***.80 (NAAS), 2.8 (Impact Factor).**Article ID 4488446, https://doi.org/10.1155/2022/4488446.

7. Madhavananda Gundappago, Manoj Khanna, Man Singh, Susama Sudhishri, Jitendra Rajput and **Dimple. 2021.** Nitrogen distribution in soil under urea ammonium nitrate (UAN) and urea application in drip fertigated cabbage (Brassica oleraceae var. capitata).

Indian Journal of Soil Conservation. 49(3), **2021**, 208-216. (**NAAS-4.63**).

8. Jitendra Rajput, Ramnarayan Choudhary, Mahesh Kothari, Nadhir Al-Ansari, **Dimple,** Kishan Makadiya, Pradeep Kumar Singh, Nand Lal Kushwaha, Pradosh Kumar Paramguru, Ashish Rai, and Lalita Rana. 2021. Diagnostic and Socio-economic Analysis of Bhimsagar Irrigation Scheme. *Ecology, Environment and Conservation.* 27, **2021,** S327-S337. (**NAAS-5.05**).
9. Kishan Makadiya, R C Purohit, Jitendra Rajput, **Dimple,** Ashish Rai, and Ahmed Elbeltagi.**2021**. Socio-economic analysis of Baroda branch canal of Som Kamla Amba Irrigation Project, Dungarpur, Rajasthan. *Environment Conservation Journal*. 22(3), **2021**, 271-279, (**NAAS-5.01**).
10. Jitendra Rajput, Mahesh Kothari, S R Bhakar, **Dimple**, N L Kushwaha, P K Singh, Pradosh Kumar Paramaguru, Ashish Rai, Ahmed Elbetagi, and Lalita Rana. **2022.** Evaluation of water delivery performance of right main canal of Bhimsagar medium irrigation scheme, Rajasthan. ISH *Journal of Hydraulic Engineering, **(Scopus database**)*). **CiteScore-4.5 Impact score-1.7**. https://doi.org/10.1080/09715010.2022.2066483 vol. 29.
11. Kishan Makadiya, RC Purohit, Jitendra Rajput, **Dimple** & Ashish Rai. **2022.** Diagnostic analysis of Baroda Branch Canal of Som Kamla Amba Irrigation project, Rajasthan, India. *Environment Conservation Journal*, 22(1&2), 192-202, (**NAAS-5.01**).
12. **Dimple,** S. R. Bhakar, S. S. Lakhawat and M. Kothari. **2017.** Effect of deficit irrigation and plastic mulch on yield and water use efficiency of drip irrigated capsicum under naturally ventilated polyhouse. ***International Journal of Current Microbiology and Applied Sciences,*** (ISSN 2319-7692).
13. **Dimple,** Jitendra Rajput and Sita Ram Bhakar. **2019.** Impact of deficit irrigation and plastic mulch on the economics of capsicum grown under naturally ventilated polyhouse. ***Journal of Pharmacognosy and Phytochemistry*,** 8(4): 3006-3009.
14. Bansod, R. D., Barai, V. N., Bhavsar, Punam., **Dimple**. and Sonawane,Vishakha. **2017.** Rainfall Simulation. ***Contemporary Research in India.*** (ISSN 2231-2137).
15. **Dimple**, Pradeep Kumar Singh, Mahesh Kothari, Kamal Kishore Yadav and Sita Ram Bhakar. Multi-criteria decision analysis for groundwater potential zones delineation using geospatial tools and Analytical Hierarchy Process (AHP) in Nand Samand Catchment,Rajasthan, India. *Environment, Development and Sustainability*, **2023**, Volume 25, Issue 4, ISSN: 1387-585X. **NAAS (2024): 10.70**, **IF: 4.7.** https://doi.org/10.1007/s10668-023-03177-1
16. **Dimple**, Pradeep Kumar Singh, Jitendra Rajput, Dheeraj Kumar, Venkatesh Gaddikeri,

Ahmed Elbeltagi. Combination of discretization regression with data-driven algorithms for modeling irrigation water quality indices. *Ecological Informatics*, 75 (**2023**), 102093, **11.80 (NAAS) IF: 5.9.** https://doi.org/10.1016/j.ecoinf.2023.102093

17. **Dimple,** Pradeep Kumar Singh, Mahesh Kothari, Kamal Kishore Yadav and Sita Ram Bhakar. Groundwater Quality Analysis using Different Water Quality Indices in the Hard Rock Aquifer Region In Semi-Arid Environment. *Water Supply*, **7.90 (NAAS)**, **IF: 1.9.** doi: 10.2166/ws.**2023**.150. **vol 23 issue 7, 2727–2744.**
18. Gaddikeri, V., Rajput, J., **Dimple,** Jatav, M.S., Kumari, A., Rana, L., Rai, A. and Gangwar, A. (2024). Estimating crop water requirement in Madhya Pradesh's agroclimatic regions: A CROPWAT and CLIMWAT software case study. ISSN 0972-3099 (Print) 2278- 5124. *Environment Conservation Journal,* https://doi.org/10.36953/ECJ.26022353. **NAAS: 5.01. 25 (1):308-326**
19. **Dimple,** Pradeep Kumar Singh, Mahesh Kothari, Kamal Kishore Yadav, Sita Ram Bhakar, Jitendra Rajput and Anvesha. (2024). Assessing groundwater quality in Nand Samand catchment, Rajasthan, India:a GIS-based multi indices approach for drinking and irrigation water suitability. *Water Practice & Technology,* 19(4), 1249 doi: 10.2166/wpt.2024.069. **IF: 1.6.**
20. Rajput, J., Singh, M., Lal, K., Khanna, M., Sarangi, A., Mukherjee, J., Singh, S. and Dimple (2024). Development of single and dual crop coefficients for drip-irrigated broccoli using weighing type field lysimeters in semi-arid environment. *Environ Dev Sustain* (2024). https://doi.org/10.1007/s10668-024-05416-5. **NAAS (2024): 10.70**, **IF: 4.7.**

Full-length paper in Conference Proceedings

1. **Dimple,** Sita Ram Bhakar, Shreedhar Singh Lakhawat, Jitendra Rajput, Mahesh Kothari, and Hemant Kumar Mittal. 2019. Response of Deficit Drip Irrigation on Production and Growth Parameters of Capsicum (Capsicum Annuum) Inside Naturally Ventilated Polyhouse. The 12th TSAE International Conference on 14-15 March 2019 at Hard Rock Hotel, Pattaya, Thailand. IOP Conference Series: Earth and Environmental Science. DOI: 10.1088/1755-1315/301/1/012005.
2. **Dimple,** S. R. Bhakar, S.S. Lakhawat And Mahesh Kothari. 2019. Determination Of Crop Water Requirement Of Drip Irrigated Capsicum Crop Inside Naturally Ventilated

Polyhouse. 9th International Micro Irrigation Conference (9IMIC)-Aurangabad.

3. Jitendra Rajput, Nand Lal Kushwaha, **Dimple,** Shaloo and Susama Sudhishri. (2023). Irrigation Water Management using Remote Sensing and GIS Approaches. National conference on "Industry Problems-Academia Solutions (*iPAS - 2023 Conclave*)"July 27 & 28, 2023, New Delhi, India.

Book Chapter

1. **Dimple,** Jitendra Rajput, Indu, and Manoranjan Kumar. 2021. Book chapter entitled" Human Health Hazards and Risks in the Agriculture Sector" in book titled "Recent Technologies for Disaster Management and Risk Reduction", ***Springer Nature*-**Earth & Environmental Sci. Library series, ISBN:978-3-030-76115-8.
2. Jitendra Rajput, Nand Lal Kushwaha, Lalita Rana, **Dimple** and Ashish Rai. 2022. Climate Change Impacts on Water Balance and Water Productivity. pp:37-48. In AGRICULTURE AND CLIMATE CHANGE Impacts and Solutions. Brillion Publishing.
3. K.K. Yadav, **Dimple,** Manjeet Singh and P.K. Singh. 2021. Temporal Variations Of Groundwater Quality Parameters. A book Soil and Water Conservation Management. ISBN: 987-93-90647-86-6, 14-19. Publisher Agrotech Publishing Academy.
4. Ahmed Elbeltagi, Renata Graf, **Dimple,** Jitendra Rajput, Ali Mokhtar, Chaitanya B. Pande (2024). Groundwater Potential Zones Mapping based on the ANN and ML Models Using AHP and MIF Techniques. Book: Sustainability of Natural Resources, 1st Edition, Imprint CRC Press, eBook ISBN9781003303237.
5. Aiswarya, L., Siddharam, Gaddikeri, V., Jatav, M.S., **Dimple,** Rajput, J. (2024). Canal Automation and Management System to Improve Water Use Efficiency. In: Yasheshwar, Mishra, A.K., Kumar, M. (eds) Recent Advancements in Sustainable Agricultural Practices. Springer, Singapore. https://doi.org/10.1007/978-981-97-2155-9_14.
6. Siddharam, Aiswarya, L., G.M. Ramesh, Gaddikeri, V., Jatav, M.S., **Dimple,** and Rajput, J. (2024). Assessment and Development of Water Resources with Modern Technologies. In: Yasheshwar, Mishra, A.K., Kumar, M. (eds) Recent Advancements in Sustainable Agricultural Practices. Springer, Singapore. https://doi.org/10.1007/978-981-97-2155-9_12.

Book/Edited book

1. Edited book- Agriculture Science: Research and Review Volume XI, ISBN: 978-93-91768-96-6, 1st edition, 2022. Editors: Dr. Zeenath N. Kashmiri, **Dr. Dimple**, Dr. Manoj Kumar and Mr. Rakesh Kumar

2. Surface water and Groundwater Quality for Sustainable Utilization Advanced Methods and Technology, Springer Hydrogeology-2025, Springer. **Dimiple,** Chaitanaya Baliram Pande and Jitendra Rajput.

Popular Article/E-Magazine

1. **Dimple,** Vinay Kumar Gautam, Kamal Kishore Yadav and H.K. Mittal. 2020. Artificial Groundwater Recharge Techniques to augment subsurface water. *Indian Farmer,* 7(06): 580-584; June-2020.
2. Indu, Nilamani Dikshit, **Dimple,** Rajesh Singhal, Shahid Ahmed. 2021. Stover Quality: New Priority Trait in Fodder Sorghum**.** *Indian Farmer,* Vol. 8 (12); December-2021.
3. **डिम्पल** और विनय कुमार गौतम. 2020. फ्लोराइड युक्त पानी का प्रभाव. **राजस्थान खेती प्रताप**, page no. 22.
4. विनय कुमार गौतम**,** जरिपती त्रिविक्रम राजू और **डिम्पल**. May 2020. रूफटॉप पौध उत्पादन प्रणाली शहरी क्षेत्रो के लिए उन्नत तकनीकी**. मध्य भारत कृषक भारत.**
5. विनय कुमार गौतम**,** जरिपती त्रिविक्रम राजू और **डिम्पल**. June 2020. हाइड्रोजेल तकनीक सूखा प्रभावित क्षेत्रो के लिए वरदान**. मध्य भारत कृषक भारत**.
6. **Dimple,** P.K. Singh and K.K. Yadav. 2022. Evaluation of traditional water-lifting devices in India. *Indian Farming*-ICAR a monthly magazine. 72(07), 03-06.
7. Venkatesh Gaddikeri, Asha K R, Ajay Satpute, Malkhan Singh Jatav and Jitendra Rajput and **Dimple.** 2022. UAVs in Orchard management: Need, Challenges, and Applications. *Agriculture and Environment E-Newsletter***,** Article ID: AEN-2022-03-07-004.

- Worked as Junior Research Fellow on contractual position under DST project entiled “North Indian Centre for Water Technology Research in Agriculture” at Water Technology Centre, ICAR-IARI-PUSA, New Delhi.
- Reviewer of some peer reviewd journals including Environment Development and Sustainability.
- Life time membership of Indian Society of Agricultural Engineers and Soil Conservation Society of India.
- **ORCID iD:** 0000-0002-9582-4955
- https://www.researchgate.net/profile/Dr-Dimple
- https://www.scopus.com/authid/detail.uri?authorId=57211193799
- https://scholar.google.com/citations?hl=en&user=frEefUsAAAAJ&view_op=list_wo

rks&gmla=AC6lMd8QchFc9hIHiI9p7mLxBTyWzi2lCc9Hc_IQhX8ZWx547lucy54SYf3YseLWsg89zhbDvzqhtdHRXYgwL_xg

DECLARATION

I hereby declare that the above information is true and best to my knowledge.

Date: 12-09-2024

Place: Faridabad, Haryana

Signature