

BRIEF BIODATA OF Dr. SATYENDRA KUMAR

1. Name : Dr. SATYENDRA KUMAR
2. Date and place of birth : 29-09-1972 , Deoria, Uttar Pradesh, India
3. Designation and address: Senior Scientist (Soil and Water Cons. Engg.)
Divi. of Irrigation and Drainage Engineering
Central Soil Salinity Research Institute, Karnal
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4. Academic Record

Degree	Name of the University/ Institute/board	Year of passing	Subject with major field
B. Tech. (Agricultural. Engg)	University of Allahabad, Allahabad	1994	Agricultural Engineering, Soil and Water Conservation Engineering as major subject
M. Tech (Soil & Water Engineering)	Punjab Agricultural University, Ludhiana	1996	Soil and Water Engineering, specialization irrigation and drainage
Ph. D. (Soil & Water Engineering)	Allahabad Agricultural institute (Deemed University),Allahabad	2005	Soil and Water Engineering, specialization irrigation and drainage

5. Research Experience:

Post hold	Institute	Period (Years)	Area of work
Senior Scientist	Central Soil Salinity Research Institute, Karnal (India)	3.5	Artificial groundwater recharge/water saving techniques
Scientist (Sr. scale)	Central Institute of Post Harvest Engineering and Technology, Abohar (India)	3.0	Marginal quality water utilization in through drip irrigation system
Scientist	Central Institute of Post Harvest Engineering and Technology, Abohar (India)	6.0	Techno-economic aspects of using micro irrigation system in canal command

6. Scientific accomplishment / interest

Professional achievements are development of strategies for controlling the declining ground water table in irrigated areas, Management of limited water using microirrigation in canal command, Scheduling microirrigation and fertigation for quality produce of horticultural crops, plastic mulching, low cost poly house

Present activities include development of filtering unit for injection well type artificial groundwater recharge structure, development and installation of individual farmer based recharge structure for augmentation of groundwater, climate change impact on availability of groundwater resources

Major areas of professional interests are management of salt affected soil through engineering intervention, safe use of marginal quality water using microirrigation system, crop water management using microirrigation to minimize impact of climate change

8. Publication

(a)	i) Research paper	29
	ii) Technical/research bulletin	06
	iii) Book Chapter	06
	vi) Popular article	14
	v) Paper presented/ abstract published in symposium/workshop/conference	27

b) Best 5 Publications of last 05 years

- 1) **Kumar, Satyendra**, Imtiyaz, M, Kumar, A and Singh, Rajbir (2009). Studying the Feasibility of Using Microirrigation Systems for Vegetable Production in Canal Command Area. *Irrigation and Drainage*. 58 (1): 86-95
- 2) **Kumar, Satyendra**, Singh, R., Nangare, D. D. and Gupta, R.K. (2008). Optimization of irrigation for potato with microsprinkler. *Journal of Agricultural Engineering*. 45(3) : 34-37
- 3) **Kumar, Satyendra**, Imtiyaz, M., Kumar, A. and Singh, Rajbir (2007) Response of onion (*Allium cepa* L.) to different levels of irrigation water. *Agricultural Water Management*. 89(1-2):161-166.
- 4) **Kumar, Satyendra**, Imtiyaz, M., Kumar, A. (2007). Effect of differential soil moisture and nutrient regimes on post harvest attributes of onion (*Allium cepa* L.). *Scientia Horticulturae*. 112 (2):121-129.
- 5) **Kumar, Satyendra**, Kumar, A and Sirothia, N.N. (2006). Modelling for simplifying hydraulic design procedure of drip inlet spillway. *Journal of Agricultural Engineering*. 43 (2): 41-44.

c) Best 10 publications of whole career

- 1) **Kumar, Satyendra**, Imtiyaz, M, Kumar, A and Singh, Rajbir (2009). Studying the Feasibility of Using Microirrigation Systems for Vegetable Production in Canal Command Area. *Irrigation and Drainage*. 58 (1): 86-95
- 2) **Kumar, Satyendra**, Ram Asrey, Mandal, G. and Singh R. (2009). Microsprinkler, drip and furrow irrigation for potato cultivation in semiarid environment. *Indian journal of Agricultural Science*. 79 (3): 165-169.
- 3) **Kumar, Satyendra**, Singh, R., Nangare, D. D. and Gupta, R.K. (2008). Optimization of irrigation for potato with microsprinkler. *Journal of Agricultural Engineering*. 45(3) : 34-37
- 4) **Kumar, Satyendra**, Imtiyaz, M., Kumar, A. and Singh, Rajbir (2007) Response of onion (*Allium cepa* L.) to different levels of irrigation water. *Agricultural Water Management*. 89(1-2):161-166.
- 5) **Kumar, Satyendra**, Imtiyaz, M., Kumar, A. (2007). Effect of differential soil moisture and nutrient regimes on post harvest attributes of onion (*Allium cepa* L.). *Scientia Horticulturae*. 112 (2):121-129.
- 6) **Kumar, Satyendra**, Kumar, A and Sirothia, N.N. (2006). Modelling for simplifying hydraulic design procedure of drip inlet spillway. *Journal of Agricultural Engineering*. 43 (2): 41-44.
- 7) **Kumar, Satyendra**, Mandal, G., Ram Asrey and Singh R. (2006). Influence of variable irrigation and fertigation on yield, irrigation production efficiency and economic return of potato in a Semi Arid Environment. *Potato Journal*. 33 (3-4): 126-130.
- 8) **Kumar, Satyendra** and Sirothia, N.N. (2002). Simplified hydraulic design procedure for drip spillway. *Journal of Agricultural Engineering*. 39(3): 33-39
- 9) Khepar, S.D., Sondhi, S.K. and **Kumar, Satyendra** (1999). Impact of cultural practices on water use in paddy fields. *ICID Journal*. 48 (3):13-26.
- 10) Khepar, S.D., Sondhi, S.K., **Kumar, Satyendra** and Gulati, H.S. (1999). Impact of rainfall conservation on water use in paddy fields. *Journal of soil and water conservation*. 43:35-43

9. Award/recognition

- i) Recipient of “*Groundwater Augmentation Award-2009*”, Ministry of Water Resources, Government of India, in FPARP category
- ii) Bestowed with “*Shankar Memorial Award*” by Indian Society of Agricultural Engineers in year 2010 for excellence in research in the discipline of Soil and Water Conservation Engineering.
- iii) University merit fellowship during M.Tech. at Punjab Agricultural University Ludhiana
- iv) Associate editor of Soil and Water Conservation Engineering division for Journal of Agricultural Engineering (ISAE)
- v) External examiner for B. Tech. Ag. Engg./Water Resources and Postgraduate classes of SHIATS, Allahabad, Punjab Agricultural University, Ludhiana etc.
- vi) Reviewer of various research journals like Agricultural Water Management and Scientia Horticulturae of Elsevier Publication, Indian Journal of Water Management, Journal of Agricultural Engineering etc.