


Profile of Er Saswat Kumar Kar

	Name: Er Saswat Kumar Kar
	Designation: Scientist (Land and Water Management Engineering)
	Date of Birth: 31.03.1992
	Area of Specialization: Soil erosion assessment, Soil erosion modeling, Indicator based drought vulnerability assessment, Watershed hydrology, Near saturated hydraulic conductivity
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Detail Profile

Education

Degree	Year of Passing	University/Institution
Ph.D. (Soil and Water Conservation Engineering)	2023	Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, UP
M.Tech. (Soil and Water Conservation Engineering)	2016	Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, UP
B.Tech. (Agricultural Engineering)	2014	CAET, Odisha University of Agriculture and Technology, Bhubaneswar, Odisha

Professional History

Position	Year	Organization
Scientist	10.06.2023 to Till date	ICAR- Indian Institute of Soil & Water Conservation, RC, Koraput, Odisha
Scientist	09.10.2018 to 09.06.2023	ICAR- Indian Institute of Soil & Water Conservation, Dehradun, Uttarakhand
Scientist (Trainee)	02.07.2018 to 08.10.2018	ICAR-NAARM, Hyderabad

Publications (summary)

S. No.	Publication	Number
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1	Research Publications	23
	National	11
	International	12
2	Books	3
	Authored	2
	Edited	1
3	Book Chapters	2
4	Lead Papers	0
5	Radio talks	0
6	Technical/Research Reports/ Compilation / Bulletins	3
7	Extension Folders/leaf lets	1
8	Symposia/Workshop/Seminar Papers	0
9	Popular article	5
10	Professional Trainings attended	3
11	Consultancy project handled (Leader in 0 & Associated in 4)	0, 4
12	No. of training organized	0
	Short duration sponsored training (Trained : 0)	0
	Soil Conservation Regular Training Course: (5 ½ or 4 months duration) (Trained: 0)	0
	B.Tech students Field Practical training- one to two months (No Students: 0)	0
13	Seminars/Symposia/Workshops/Summer or Winter School/ Organized	0
14	External projects handled	4

Most important 5 Publications

1. **Kar, S. K.**, Singh, R. M., Patra, S., Sankar, M., Kumar, S., & Singh, A. (2023). Implication of land use shifting on land degradation and restoration potential of conservation agriculture in India's North-West Himalayan region. *Geoderma Regional*, 32, e00616. (NAAS rating: 10.20)
2. **Kar, S. K.**, Patra, S., Singh, R. M., Sankar, M., Kumar, S., Singh, D., ... & Singla, S. (2023). Impact of land use reformation on soil hydraulic properties and recovery potential of conservation tillage in India's North-West Himalayan region. *Ecohydrology & Hydrobiology*, 23(2), 290-303. (NAAS rating: 8.96)
3. **Kar, S. K.**, Thomas, T., Singh, R. M., and Patel, L. (2018). Integrated assessment of drought vulnerability using indicators for Dhasan basin in Bundelkhand region, Madhya Pradesh, India. *CURRENT SCIENCE*, 115(2), 338-346. (NAAS rating: 6.88)
4. Sarkar, D., **Kar, S. K.**, Chattopadhyay, A., Rakshit, A., Tripathi, V. K., & Abhilash, P. C. (2020). Low input sustainable agriculture: A viable climate-smart option for boosting

food production in a warming world. *Ecological Indicators* (Elsevier), 115, 106412. (NAAS rating: 10.49)

5. Rathore, A. C., Mehta, H., Jayaprakash, J., Singh, C., Gupta, A. K., Kumar, P., **Kar S K**, ... & Madhu, M. (2021). Modified plant architecture integrated with liquid fertilizers improves fruit productivity and quality of tomato in North West Himalaya, India. *Scientific Reports*, 11(1), 1-12. (NAAS rating 10.38)

Google Scholar link: <https://scholar.google.com/citations?user=yfDuGm4AAAAJ&hl=en>

ResearchGate link: <https://www.researchgate.net/profile/Saswat-Kumar-Kar-2>

Awards/Fellowships/Recognitions

Sl. No.	Name of the Award/Fellowship /Recognition	Awarding organization	Year of award
1.	Merit certificate in “Soil and water conservation engineering module”	HRD and SS division of ICAR-IISWC, Dehradun.	2019

Research Projects as PI (On-going)

Nil

Research Projects as PI (Concluded)

1. Development and validation of a spatially explicit simulation framework to quantify runoff-erosion-carbon flux at watershed scale. (**Institute Funded**)

Other important responsibility

1. Executive member of Indian Association of soil and Water Conservationists, Dehradun, UK.
2. Member of the Standing Purchase and Advisory Committee (SPAC) for ICAR-IISWC.

Consultancies

1. Co-PI of project entitled “Assessment of extractable river bed material from river Gaula (Haldwani)” for the year 2018-2019, Funded by Uttarakhand Forest Development Corporation, Uttarakhand.
2. Co-PI of project entitled “Assessment of extractable river bed material from river Song and Jakhan” for the year 2019-2020, Funded by Uttarakhand Forest Development Corporation, Uttarakhand.

3. Co-PI of project entitled “Assessment of extractable river bed material from river Song I,II and III and Jakhan I & II at Dehradun funded by Divisional Logging Manager (Khanan), Uttarakhand Forest Development Corporation, Dehradun (Uttarakhand)
4. Co-PI of project entitled “Assessment of extractable River Bed Material (RBM) from River Gaula during the year 2020-21” under Uttarakhand Forest Development Corporation, Haldwani (Uttarakhand)