


## Profile of Dr Shakir Ali

	<p><b>Name:</b> Dr. Shakir Ali <b>Designation:</b> Principal Scientist (Soil &amp; Water Conservation Engineering) <b>Date of Birth:</b> 12.06.1968 <b>Area of Specialization:</b> Artificial groundwater recharge modelling, small watershed hydrological modelling, rainfall-runoff modelling, evaporation and evapotranspiration modelling, climate change, drought modelling, soil and water conservation Engineering and Ecosystem service functions of soil &amp; water conservation technologies. <b>Email ID:</b> <a href="mailto:shakir.ali@icar.gov.in">shakir.ali@icar.gov.in</a>; <a href="mailto:shakir.ali2@gmail.com">shakir.ali2@gmail.com</a> <b>ERP ID:</b> 010054 <b>Mobile:</b> +91-9928945842; <b>Phone:</b>+91-744-2462642; <b>Fax:</b>+91-744-2460853</p>
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## Detail Profile

### Education

Degree	Year of Passing	University/Institution
Ph. D (Hydrology)	2010	I.I.T., Roorkee
M. Tech (SWC Engg.)	1990	I.I.T., Kharagpur
B. Tech (Ag. Engg.)	1988	Allahabad University
AMIE (Civil Engg.)	1994	The Institution of Engineers (India)

### Professional History

Position	Year	Organization
Principal Scientist (SWC Engg.)	23.12.2013 to till date	ICAR- Indian Institute of Soil & Water Conservation, Research Centre, Kota
Sr. Scientist (SWC Engg.)	22.03.2010 to 22.12.2013	ICAR- Indian Institute of Soil & Water Conservation, Research Centre, Kota
Scientist SG (SWC Engg.)	22.03.2007 to 21.03.2010	ICAR- Indian Institute of Soil & Water Conservation, Research Centre, Kota
Scientist SS (SWC Engg.)	22.03.2002 to 21.03.2007	ICAR- Indian Institute of Soil & Water Conservation, Research Centre, Kota
Scientist (SWC Engg.)	09.01.1997 to 21.03.2002	ICAR- Indian Institute of Soil & Water Conservation, Research Centre, Kota
Scientist (SWC Engg.)	09.09.1996 to 26.12.1997	ICAR- Indian Institute of Soil & Water Conservation, Research Centre, Koraput
Scientist (SWC Engg.)	02.09.1996 to 07.09.1996	ICAR- Indian Institute of Soil & Water Conservation, Dehradun
Scientist Trainee (SWC Engg.)	22.03.1996 to 21.08.1996	NAARM, Hyderabad

### Publications (summary)

S. No.	Publication	Number
1	Research Publications	48
	National	30

	International	18
2	Books	
	Authored	1
	Edited	3
3	Book Chapters	15
4	Lead Papers	0
5	Radio talks	6
6	Technical/Research Reports/ Compilation / Bulletins	5
7	Extension Folders/leaf lets	10
8	Symposia/Workshop/Seminar Papers	20
9	Popular article	11
10	Professional Trainings attended	5
11	Consultancy project handled (Leader in 2 & Associated in 2)	4
12	No. of training organized	
	Short duration sponsored training (Trained : 1)	1
	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)	20
13	Seminars/Symposia/Workshops/Summer or Winter School/ Organized	0
14	External projects handled	3

### Most important 5 Publications

1. **Ali, Shakir**, Sethy, B.K., Parandiyal, A.K., Kumar, A., Singh, R. K, J. Somasundaram and Mina, B.L. (2020). Long-term effects of rainwater conservation measure for improving yield, runoff use efficiency and soil properties of horti-pastoral system on the degraded ravine lands of India. *Agricultural Water Management*, 233:106068. <https://doi.org/10.1016/j.agwat.2020.106068>.
2. **Ali, Shakir**, Sethy, B.K., Singh, R. K, Parandiyal, A.K., and Kumar, A. (2017). Quantification of hydrologic response of staggered contour trenching for horti-pastoral land use system in small ravine watersheds: a paired watershed approach. *Land Degradation and Development*, 28(4): 1237-1252. <https://doi.org/10.1002/ldr.2517>.
3. **Ali, Shakir**, Islam, A., Mishra, P. K. and Sikka, A.K. (2016). Green-Ampt approximations: A comprehensive analysis. *Journal of Hydrology*, 535: 340-355. <https://doi.org/10.1016/j.jhydrol.2016.01.065>.
4. **Ali, Shakir**, Ghosh, N.C., Mishra, P. K. and Singh, R.K. (2015). A holistic water depth simulation model for small ponds. *Journal of Hydrology*, 529: 1464-1477. <https://doi.org/10.1016/j.jhydrol.2015.08.035>.
5. **Ali, Shakir**, Ghosh, N.C. and Singh, R. (2010). Rainfall-runoff simulation using normalized antecedent precipitation index. *Hydrological Sciences Journal*, 55(2): 266-274. <https://doi.org/10.1080/02626660903546175>.

### Google Scholar link

<https://scholar.google.com/citations?user=nBQK12sAAAAJ&hl=en>

### ResearchGate link

<https://www.researchgate.net/profile/Shakir-Ali-4>

### Awards/Fellowships/Recognitions

S. No.	Name of the Award/ Fellowship/Recognition	Awarding Organization	Year of Award
1.	K.F. Antia Memorial Award	The Institution of Engineers (India), Kolkota (West Bengal), India	2017
2.	Young Soil Conservationist Award	Indian Association of Soil Conservationists, Dehradun (Uttarakhand), India	2007
3.	JAE Best Paper Award	Indian Society of Agricultural Engineers (ISAE), New Delhi, India	2018
4.	Best Poster Award	Career Point University, Kota(Rajasthan),India	2017
5.	Fellow	The Institution of Engineers (India), Kolkota (West Bengal), India	2013
6.	Fellow	Indian Association of Hydrologists (IAH), Roorkee (Uttarakhand), India	2012
7.	Fellow	Indian Association of Soil Conservationists (IASC), Dehradun (Uttarakhand), India.	2019

### Research Projects as PI

1. Evaluation of hydrological behavior and production potential of recommended land use systems/ practices under different agro-ecological regions of India(Core Project).
2. Cost effective conservation measures for management of medium and deep ravinous lands.
3. Field evaluation of design of trenches under different agro-ecological regions.(Core Project)
4. Development and validation of runoff and erosion prediction models in different agro-ecological regions (Core Project).
5. Effect of conservation structures on groundwater recharge(Core Project)
6. Evaluation and improvement of indigenous methods of moisture conservation and runoff management.
7. Hydro-meteorological data analysis for soil and water conservation planning in Koraput region.
8. Evaluation of different conservation practices in steeply land of western ghat high land zone.

### Other important responsibility

1. Associate editor, Journal of Agricultural Engineering (JAE), selected by the Indian Society of Agricultural Engineers (IASSE), New Delhi, India.

2. Executive member, Indian Association of Soil and Water Conservationists(IASWC) for Biennium 2014-2015 elected by Indian Association of Soil and Water Conservationists (IASWC), Dehradun (Uttarakhand), India.
3. Expert member, a seven members joint committee constituted by the Hon'ble NGT (National Green Tribunal), comprising Chief Wildlife Warden, Rajasthan, Wildlife Institute of India, Dehradun, Indian School of Mines, Dhanbad, ICAR-Indian Institute of Soil and Water Conservation, Dehradun, IIT Roorkee, CPCB, State PCB and District Magistrate, Chittorgarh, to study the impact of mining beyond the boundaries of eco-sensitive zone (10 km radius) of Bassi Wildlife Sanctuary, Chittorgarh, Rajasthan.
4. Member, Task Force Committee for "Nilanchal Project" constituted by the Commissioner, Commissionerate of Watershed Development & Soil Conservation Department, Govt. of Rajasthan, Jaipur.
5. Member, Task Force Committee for "Hydrological Monitoring Network (HMN) and Crop Water Budgeting programme" constituted by the Commissioner, Commissionerate of Watershed Development & Soil Conservation Department, Govt. of Rajasthan, Jaipur.
6. Member, State Level Nodal Agency (SLNA) Committee, for "Watershed Development Programme" constituted by the Commissioner, Commissionerate of Watershed Development & Soil Conservation Department, Govt. of Rajasthan, Jaipur.
7. Member, Technical Advisory Committee for "Watershed Development Programme" constituted by the Commissioner, Commissionerate of Watershed Development & Soil Conservation Department, Government of Rajasthan, Jaipur.
8. Member, Zonal Level Monitoring Committee for "NICRA (National Initiative on Climate Resilient Agriculture) projects for zone-VI" Constituted by ICAR, New Delhi for period 2013-14.
9. Member, General Body, Irrigation Management & Training Institute, Constituted by Commissioner, irrigation, Jaipur, Rajasthan during the period 2015-16.

### Consultancies

1. Preparation of a macro-plan for reclamations of ravine lands for productive utilization (Co-PI)
2. Preparation of DPR for conservation and management of Kailana lake catchment in Jodhpur district, Rajasthan(PI)
3. Preparation of DPR for conservation and management of Gadiser lake catchment in Jaisalmer district, Rajasthan(PI)
4. Preparation of DPR for Attapadi Hill Area Development, Govt of Kerala(Co-PI)