

Dr. M. L. Gaur



PERSONAL DETAILS

Date of Birth : 10th February, 1962
Qualification : Ph.D. (Hydrology, IIT Roorkee)
Current Designation : Professor (Soil & Water Engg)
Email : mlgaur@aau.in

EXPERIENCE

32 years (>24 Years in ICAR & > 7 years in AAU)

PROFESSIONAL SPECIALIZATION

Soil & Water Engg, Watershed Management, Hydrology , Soil Conservation, Grassland & Forest Hydrology, GIS and Remote Sensing, Water Resources

ACADEMIC QUALIFICATIONS

- B Tech (Agril Engg) – 1984 – First Class (3.7/4.0 i.e. 82 % marks) from Jawahar Lal Nehru Kishi Vishwa Vidyalaya , JABALPUR, M P
- Masters & Ph.D (Integrated) – 2000- First Class from I I T Roorkee

PROFESSIONAL EXPERIENCE

<i>Position/Post</i>	<i>Organization/Institution</i>	<i>Period</i>
Professor (Soil & Water Engg)	B A College of Agriculture Anand Agril University	02-07-2016 to till date
Professor (Soil & Water Engg)	College of Agril Engg & Technology Godhra (AAU)	16-07-2009 to 01-07-2016
Principal	College of Agril Engg & Technology Godhra (AAU)	01-03-2010 to 01-07-2016
Dean	Faculty of Agril Engg & Technology Godhra (AAU)	01-04-2011 to 01-05-2015

Principal Scientist (Soil & Water Cons Engg)	CSWCRTI – Research Centre Vasad- 388306 Gujarat	04-04-2008 to 16-07-2009
Senior Scientist (Soil & Water Cons Engg)	CSWCRTI – Research Centre Vasad- 388306 Gujarat	01-05-2005 to 03-04-2008
Senior Scientist (Soil & Water Cons Engg)	CSWCRTI – Research Centre Datia -475661 MP	01-05-2000 to 30-04-2005
Scientist Sr Scale (Soil & Water Cons Engg)	ICAR-CSWCRTI – HQ , Dehradun , Uttaranchal	24-08-1999 to 30-04-2000
Scientist Sr Scale/ Scientist (Soil & Water Cons Engg)	ICAR- IGFRI HQ Jhansi, U P	11-11-1990 to 23-08-199
Scientist (Soil & Water Cons Engg)	ICAR- WTC –IARI New Delhi India	01-05-1990 to 10-11-1990
Scientist (Soil & Water Cons Engg)	ICAR- NAARM Hyderabad AP India	05-12-1989 to 30-04-1990
Technical Officer (Soil & Water Cons Engg)	ICAR- CSWCRTI – ORP Hamirpur UP India	01-06-1985 to 04-12-1989

RECOGNITIONS/AWARDS/ SPECIAL ATTAINMENTS

- National Fellows 2015 Award Indian Association of Soil & Water Conservationist (IASWC) Dehradun
- National Fellows 2016 Award, Indian Association of Hydrologists (IAH) NIH (Ministry of Water Resources, GOI) Roorkee
- National level Award 'AIASA Gold Medal 2015' for outstanding contribution in undertaking students welfare activities and empowerment of youths in agriculture on all India nomination basis by, AIASA , Conferred by Hon'ble Union Agriculture Minister, Sh Radha Mohan Singh at NASS complex New Delhi on 27-01-2016
- Best Paper Award during ESRI- 2014 at ESRI International Conference New Delhi
- Best paper award during 11th National Agricultural Science Congress, held at OUAT Bhubneshwar, Odessa in 2013 By NAAS, ICAR , DARE, Govt of India
- Life member of more than 6 prestigious professional national societies (IASWC, IAH, RMSI, ISAE, AHI, IOE etc)
- Attended more than 20 international & about 30 national level conferences and chaired/co chaired dozens of technical sessions
- Delivered about 15 key note papers/addresses
- Had been active member of national/international technical committees for couple of prestigious conferences
- Shouldered responsibilities as member/editor/reviewer under varied professional (Academic, R&D, Extension etc) Committees.

UG & PG TEACHING/RESEARCH GUIDANCE (MAJOR/MINOR)

Courses : Soil & Water Conservation Engineering, Watershed Hydrology, Soil & Water Conservation Structures, B Tech Project Dissertations, Masters/Doctoral Seminars, Watershed Hydrology & Modeling, Advanced Hydrology , Bio Mathematics, Protected Cultivation & Post Harvest Technology, Fundamentals of Agril Engineering

Dissertations: B Tech (4) & M Tech (4) completed as Major Guide ; PhD (4) as Minor Guide out of which 2 completed

RESEARCH & DEVELOPMENT PROJECTS DEALT

<i>Type of Project/ Schemes Bagged & Funding Agencies/Financial Outlays</i>			
During AAU Period (2009 to 2016 i.e. After Joining AAU)			
1	Infrastructure Development for Quality Seed Production & Planting Material at Research Farms of AAU Specially Chharodi, Derol, Kakanpur Anand <i>As Co-PI in the project at CAET Godhra (till 01.07.16)</i>	National Agril Development Project , Govt of India/ Govt of Gujarat	Rs 100 lakhs
2	Development of technologies for High Value Fruit Crops of Tribal Area <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	National Agril Development Project , Govt of India/ Govt of Gujarat	Rs 108 Million
3	Vocational Courses on Agricultural Engineering & technology on 2 specific modules viz.1. Repair and maintenance of agricultural machines and tools, 2. Tools and techniques for rain water harvesting <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	National Agril Development Project , Govt of India/ Govt of Gujarat	Rs 1835 lakhs
4	Developing a small agro-tourism conclave to promote experimental learning on watershed based interventions Kakanpur (Godhra) <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	National Agril Development Project , Govt of India/ Govt of Gujarat	Rs 600 lakhs
5	Developing Model Mechanized farming villages for productivity Enhancement & Entrepreneurship Development in the tribal region of middle Gujarat Kakanpur (Godhra) <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	National Agril Development Project , Govt of India/ Govt of Gujarat	Rs 550 Million
6	Establishment of advance center of integrated	National Agril	Rs

	research and trainers training on management of natural resource (Land Water Energy) and Farm Mechanization in the tribal region of middle Gujarat <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	Development Project , Govt of India/ Govt of Gujarat	1200 lakhs
7	Encouraging Tribal Youths/Women for adopting proven Agril Engineering Technology on mechanization , value addition and resource conservation in Middle Gujarat <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	Indian Council of Agricultural Research , ICAR, TSP , Govt of India	Rs 95 lakhs
8	Establishment of Program Study Centre of IGNOU , New Delhi for conducting distance learning <i>As PI of the project at CAET Godhra (till 01.07.2016)</i>	Indira Gandhi National Open University, New Delhi	-
9	"Measurement to Management (M2M): Improved Water Use Efficiency and Agricultural Productivity through Experimental Sensor Network", as a New Partner Institution (PIN). ITRA, Media Lab Asia project <i>As PI of project at CAET Godhra (till 01.07.2016)</i>	Information Technology Regulatory Authority of India Govt of India under ITRA Mission on Water, with IIT Kharagpur, Mumbai, Gandhinagar, NERIEST NEH, IGKV Raipur	Rs 132.1 lakhs
During ICAR Period (1985 to 2009 i.e. Prior to Joining AAU)			
11	R & D consultancy project on "Rainfall, runoff and sediment losses in catchment area of Sardar Sarovar Narmada Nigam Limited irrigation Project in Gujarat" <i>As Co-PI at CSWCRTI RC Vasad (2006 -2009)</i>	Sardar Sarovar Narmada Nigam Limited Govt. of Gujarat , Gandhinagar	Rs 23.91 lakhs
12	R & D consultancy project on "Monitoring treated catchment for their hydrologic behavior in terms of runoff and soil loss in Sardar Sarovar Narmada Nigam Limited irrigation Project Maharastra" <i>As Co-PI at CSWCRTI RC Vasad (2006 -2009)</i>	Sardar Sarovar Narmada Nigam Limited Govt. of Gujarat , Gandhinagar	Rs 17.20 lakhs
13	Farmer's Participatory action research Programme (FPARP) on more crop & income per drop of water concept for Technology package entitled "Low Cost Drip Irrigation Methods for Ravenous Lands <i>As Co-PI at CSWCRTI RC Vasad (2006 -2009)</i>	Ministry of Water Resources, Govt of India	Rs 5.48 lakh
14	"Application of GIS for automatic delineation of micro	Institute	-

	watersheds, their characterizations, and priority settings for planning and management." <i>As Co-PI at CSWCRTI RC Vasad (2008 -2009)</i>	Experimental Research Project	
15	"Enhancing productivity of non arable ravine lands by plantation of Cashew (<i>Anacardium occidentale</i> L.) with different intercropping systems". <i>As Co-PI at CSWCRTI RC Vasad (2007 -2009)</i>	Institute Experimental Research Project	-
16	"Field based estimation of stream bank erosion for different ephemeral channel in Mahi ravines" <i>As PI at CSWCRTI RC Vasad (2006 -2009)</i>	Institute Experimental Research Project	Rs 10.66 lakhs
17	"Preparation of National Watershed Atlas of India, the Madhya Pradesh, Gujarat, & Maharashtra part was accomplished by me" <i>As PI at CSWCRTI RC Datia/Vasad (2006 -2009)</i>	Institute Experimental Research Project	-
18	"Hydrologic and Economic Evaluation of Bamboo Plantations in Gullied Lands under major ravine systems of India" <i>As PI at CSWCRTI RC Vasad Guj (2007 -2009)</i>	National Bamboo Mission, Ministry of Agriculture, Govt of India	Rs 58 lakhs
19	"Evaluation of mechanical and vegetative measures on field size runoff plots (8 nos., 80 x 20 m size, 3 % overland slope) for studying rain-runoff relationships in red soils of Bundelkhand region of country" <i>As PI at CSWCRTI RC Datia MP (2002 -2005)</i>	Institute Experimental Research Project	Rs 6.0 lakhs
20	"Hydrological evaluation of prevailing soil and water conservation measures for red soils of Bundelkhand region of India, utilizing one-hectare micro water sheds (4 nos, with contour bunds, graded bunds, and vegetative bunds)". <i>As PI at CSWCRTI RC Datia MP (2002 -2005)</i>	Institute Experimental Research Project	Rs 6.50 lakhs
21	"Rainfall-runoff studies on interventions in small watershed hydrology over six natural watersheds under different land uses (Agricultural, Grassed, Forest, Mixed and Mechanically treated forest watersheds)". <i>As PI at CSWCRTI RC Datia MP (2002 -2005)</i>	Institute Experimental Research Project	Rs 7.50 lakhs
22	"CSWCRTI- Institute national core project on Ground water recharging for studying the effects of soil and water conservation structures on ground water recharging quantitatively as well as qualitatively".	Institute Experimental Research Project	

	<i>As Co-PI at CSWCRTI RC Datia MP (2001 -2005)</i>		
23	"Soil loss tolerance limits for agro-ecological regions of India. Core- project" <i>As Co-PI at CSWCRTI RC Datia MP (2004 -2005)</i>	Institute Experimental Research Project	
24	"IGFRI- CSWCRTI collaborative Research Project on natural resources optimization for augmenting land productivity through watershed development approach on a 72 ha. natural watershed at Jhansi" <i>As Co-PI at CSWCRTI RC Datia MP (2004 -2005)</i>	IGFRI , Jhansi Institute Experimental Research Project	
25	"Hydrological Behavior of Small Watersheds and Sustainability of Production Systems in Himalayas" carried out at Mussories, Palampur, and Shillong <i>As Co-PI at CSWCRTI HQ Dehradun (1999-2000)</i>	World Bank aided NATP for Hills & Mountain Eco Region	190 lakhs
26	"Silvi-Pastoral approach to improve the productivity of native pastures for live stock production in the hills of Himachal Pradesh at Palampur" <i>As Co-PI at CSWCRTI HQ Dehradun (1999-2000)</i>	World Bank aided NATP for Hills & Mountain Eco Region (PI at IGFRI RC Palampur)	13.64 lakhs
27	"Integrated land development plan for research farm of newly established ICAR Institute namely , National Research Center on Weed Science (NRCWS), at Jabalpur (M.P.)". <i>As Team Leader at CSWCRTI HQ Dehradun (1999-2000)</i>	ICAR Specific assignment	-
28	"Kinematic Wave Modeling of Surface Runoff With Varied Roughness" by adopting various natural catchments (1.2 ha- 1600 ha) scientifically monitored at ICAR Institutions, Indo-German Bilateral program on Water shed management and other R & D scheme . <i>As Sponsored Research Scholar at IIT Roorkee(1999-2000)</i>	Ph. D Research work at Department of Hydrology, IIT , Roorkee.	
29	"Integrated Development of Wastelands in Bundelkhand Region" <i>As Co-PI & Leader (Engg) at IGFRI Jhansi (1990-1995)</i>	National Afforestation & Eco-Development Board, Min of Environment & Forests, Govt of India, New Delhi	65.4 lakhs
30	"National watershed development project for Lakara Karari watershed (2000 ha) in Jhansi Distt. for	National Watershed Development	79.0 lakhs

	active demonstration of watershed management technologies under NWDPPRA, WARSA Program" <i>As Co-PI & Leader (Engg) at IGFRJ Jhansi (1991-1994)</i>	Program, Ministry of Agriculture. Govt of India New Delhi	
31	"IGFRJ- NAEB collaborative R& D project for integrated development of wastelands on watershed concepts in Bundelkhand region of country". It encompasses 2 natural watersheds (1400 ha of degraded pastures in Jhansi_UP, and 500 ha of degraded forest lands in Datia-MP) for intensive SWC treatments & their impact evaluations with watershed based field experimentations. <i>As Co-PI & Leader (Engg) at IGFRJ Jhansi (1990-1995)</i>	Min of Environment & Forest, Govt of India	Rs 79 lakhs
32	"Watershed hydrological investigations in wastelands of Bundelkhand region". <i>As PI at IGFRJ Jhansi (1990-1995).</i>	Institute Experimental Research Project	
33	"Field Experimentation for fertilizer application through Drip irrigation system in lemon plants at Water Technology Centre, IARI, New Delhi. <i>As PI at WTC, IARI New Delhi (1990).</i>	Plasticulture Development Scheme , Govt. of India, New Delhi	
34	"Operational Research Project on Watershed Management at Sheetalpur (Hamirpur, UP) under pilot scheme with 47 front line model watersheds of India". A typical ravenous catchment at confluence of two giant rivers namely Yamuna and Betwa was developed demonstrating proven worth of watershed concept even country's sever most drought of 1987. <i>As Co-PI & Leader (Engg) at ORP Hamirpur (1985-1989)</i>	Ministry of Agriculture, Govt of India, and Deptt of Soil Conservation, UP Govt.	29.0 lakhs

Publications

- National/International Journals – 10
- Books/Book Chapter - 15
- Other Publications – 50
- TV/RadioTalks = 10