

PERSONAL PROFILE

An active researcher with expertise in applications of RS and GIS for Irrigation, Hydrology and Water resources Projects. Demonstrated history of working 12 years with Government, R&D Consultancy institutions, Industry, and NGOs.

FIELD INVESTIGATIONS

- Total station, GPS and DGPS
- Hydro-meteorological observations and instrument set-up
- Field observations (Surface & Groundwater)
- Spatial Data collection & management
- Ground truth verifications

CONTRIBUTIONS

•	Technical Reports	: 24 Projects
•	Publications	: International - 2
		National - 8
•	Technology	: Resource Person at
	Transfer	Training / Workshops
		M.Tech guidance - 3
	Refer Annexure for	r Details
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SOFTWARE EXPOSURE

- RS & GIS : ArcGIS, ArcGIS pro -online, ERDAS, Google Earth Engine Survey123 app development • Irrigation : CROPWAT, CLIMWAT • CAD : AutoCAD Map 3D, CIVIL 3D, Raster design • Optimization : LINGO, PuLP, Python
- Surface water : ArcSWAT, e-Water, HEC-HMS
- Ground water : ArcHydro GW, MODFLOW
- Flood Analysis : HEC-RAS,
- : SPSS, Python, CMhyd, • Statistical Minitab, XLSTAT

ABHILASH R

SCIENTIST

- 为 B.E(Civil), M.Tech (Water & Land Management), Ph.D (Hydrology & WRE) PGDEL (Envi. Law) .. pursuing C.Eng (India), M.I.E,
- National Institute of Hydrology, Regional Centre, Main Road, Visveswarayanagar, Belgaum, India - 590019
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 - abhilash.nihr@gov.in; srscientist.abhi@gmail.com

15°	52'	21.9"	Ν	
74°	30'	23.8"	Ε	

PROFESSIONAL CAREER	
Scientist 'C' Research Scientist (4yr 8mo) National Institute of Hydrology. Regional Centre - Belgaum Ministry of Jal Shakti, Department of Water Resources, River Deve Ganga Rejuvenation, Government of India	2022 onwards 2018 - 2022 dopment &
Senior Scientist (lyr 3mo) Environmental Management and Policy Research Institute (EMP Department of Forest Ecology and Environment, Government of F	-
Assistant Prof. / M.Tech Co-ordinator (2yr 2mo Department of Civil Engineering, School of Engineering and Technology, Jain University, Bangalo	
Project Associate (3yr 1mo) Department of Civil Engineering, Global Academy of Technology, Bangalore	2009 - 2012
Jr. Site Engineer (lyr 3mo) Total Environment, Bangalore ACADEMIC BACKGROUND	2008 - 2009
Doctor of Philosophy (Ph.D.) Hydrology & WRE National Institute of Hydrology Title of Research: Integrated command area management Thesis submitted	2015 - 2022
Post Graduate Diploma in Environmental Law National Law School of India University Pursuing Distance Education	2020 - 2022
Institution of Engineers (India) Chartered Engineer (C.Eng), Member (MIE)	2019 onwards
Master of Technology (M. Tech) in Water and Land Management Visvesvaraya Technological University (VTU) Thesis: Study on availability of groundwater and recharging methor for Kumudvathi watershed - A case study Graduated with First class distinction Award of Gold Medal for securing 1st Rank in the State. Bachelor of Engineering (B. E) in Civil Engineerin	2012 - 2014
R V College of Engineering, VTU Graduated with First Class.	2004 - 2008
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Thank You!

Research Projects handled and technical reports published

	SI. No.	Name of the Project	Year	Role	Funding / Sponsoring Agency
	Com	pleted			
	1.	Studies on Occurrence, Distribution and Sustainability of Natural Springs for Rural Water Supply in parts of Western Ghats, India.	2018 - 2021	Research Scientist	National Hydrology Project (NHP) Sponsored Study with Groundwater Surveys & Development Agency, Govt. of Maharashtra.
	2.	Status Assessment of Vrishabavathi River	2018 - 2019	Research Scientist	National Institute of Hydrology Annual Work programme RC- Belagavi.
	3.	Preparing Emergency Action Plan (EAP) for Krishna River within the Karnataka	2020- 2021	Research Scientist	National Institute of Hydrology and Home department, Govt. of Karnataka.
	Ong	oing			
ROLOGY	4.	Climate Change Impact Assessment for Jayakwadi Project Catchment	2019 - 2022	Research Scientist	Sponsored Study with Maharashtra State Water Resources Department,
NAL INSTITUTE OF HYDROLOGY	5.	Groundwater Model Development in micro basin of hard rock in Krishna and Godavari River Basins of Telangana	2020 - 2023	Research Scientist	National Hydrology Project (NHP) Sponsored Study with Telangana State Groundwater Dept.
UTITU	6.	Impact of Sand Mining on Groundwater regime in parts of Manjira River Basin in Telangana State	2021- 2022	Research Scientist	National Hydrology Project (NHP) Sponsored Study with Telangana State Groundwater Dept.
NATIONAL	7.	Comprehensive Assessment of Water Availability, use and issues for Goa state	2022- 2024	Research Scientist	National Hydrology Project (NHP) Sponsored Study with Goa State Water Resources Department.
Z	Assis	sted in	1		
	8.	Preparation of Emergency Action Plan (EAP) and study of Tail channel Design flood carrying capacity of Amabazari lake, Nagpur	2019- 2020	Research Scientist	Command area development authority, Nagpur, Maharashtra.
	9.	Flood Studies for projects in Kali and Sharavathi River basin	2018 – 2021	Research Scientist	Karnataka Power Corporation Limited, Government of Karnataka
	10.	Flood Management Plan and Channel Depth calculation to assure Flood Safety for Unkal Lake	2019- 2020	Research Scientist	Hubli Dharwad Smart City Limited, Karnataka
	11.	Impact of LULC and catchment characteristics on run-off and groundwater dynamics of Western Ghats, Karnataka	2019- 2022	Research Scientist	National Institute of Hydrology and MOES sponsored study

	Sl. No.	Name of the Project	Year	Role	Funding / Sponsoring Agency
	12.	Baseline study and monitoring of Ecological impacts on river basin of Yettinahole drinking water project as stipulated by MoEFCC	2017*	Research Scientist	Visveswaraya Jala Nigam Limited Govt. of Karnataka.
	13.	Dissemination of Environmental Rules, Regulations and Preventive Measures to the Public through the Use of Mass Media and Training Programmes	2017	Sr.GIS Scientist / Research Scientist	Govt. of Karnataka, Department of Forest Ecology and Environment.
	14.	Assessing Metro Rail system as a means of mitigation strategy to Climate change	2017	Sr.GIS Scientist / Research Scientist	Environmental Management and Policy Research Institute (EMPRI), Govt. of Karnataka DST funded project.
EMPRI	15.	Assessment of Current Status of Cauvery River in Karnataka and Study of 300m Buffer Zones on Both sides of the river	2016 - 2017	Sr.GIS Scientist / Research Scientist	EMPRI, Govt. of Karnataka for Lok Adalat Court
	16.	Inventorisation of Water Bodies in Bengaluru Metropolitan Area (BMA) - Volume 1 and Developing GIS mobile app for inventorization of waterbodies and user manual	2016 - 2017	Sr.GIS Scientist / Research Scientist	EMPRI, Govt. of Karnataka in association with Karnataka Lake Conservation and Development Authority (KLCDA), Govt. of Karnataka and Regional Remote Sensing Centre – ISRO
	17.	Impact of Climate Change on Incidence of Vector-Borne Diseases and Vulnerability Mapping for Karnataka 2015-16	2016	Sr.GIS Scientist / Research Scientist	EMPRI, Govt. of Karnataka DST funded project - Climate change
AOL	18.	 River Rejuvenation Action Plan for Kumudvathi River Naganadi River Vedavathi River 	2012 - 2014	Technical Team Lead	Art of Living NGO
GLOBAL ADEMY OF	19.	Preparation of watershed development scheme on the lines of IMSD for the watershed of Ajjampura Tunnel area	2012	Project Associate	KNNL, Irrigation Department, Govt. of Karnataka
GLOBAI ACADEMY	20.	Flood Studies in Bennihalla Basin VTU R&D project	2011- 2012	Project Associate	Visvesvaraya Technological University through Global Academy of Technology

21.	 Action Plan for Sustainability of MI Tanks and Groundwater regime for Chikkaballapura watershed Jayamangali Watershed Koundinya Watershed Kaiwara Watershed 	2011- 2012	Project Associate	Minor Irrigation Department (South Zone), Govt. of Karnataka
22.	Integrated Urban Watershed Management Project: Hydrogeological study of Doddaballapura town urban watershed	2011	Project Associate	Society for Voluntary Action Revitalization and Justice (SVARAJ) and Arghyam NGOs
23.	IWRM – ADB TA No.7418- IND: Manual Upper Tungabhadra GIS Background paper	2010	GIS Analyst	Asian Development Bank through ANZDEC Limited Consultants for Water Resources Department, Govt. of Karnataka
24.	Hydrogeological Study along the proposed tunnel of Upper Bhadra Project near Ajjampura, Chikamagalur District	2009	GIS Analyst	KNNL, Irrigation Department, Govt. of Karnataka

- Number of Projects Completed and Technical reports published / submitted to Funding / Sponsoring Agency: NIH – 7 no's, EMPRI – 5 no's + 1 (ongoing), AOL – 3 no's, GAT – 9 no's; TOTAL – 24 projects.
- Project ongoing: 4 no's

Paper Publications / Presentations

Interna	International				
1.	"Geospatial Approach for Integrated Command Area Management"	2022			
	ASCE: Journal of Irrigation and Drainage Engineering Volume 148 Issue 4 - April 2022				
2.	"Visualization For Planning Integrated Water Resource Management Using Geomatic Techniques-A Case Study"	2012			
	The 12 th Asian Symposium on Visualization ASV12 National Cheng Kung University, Tainan, Taiwan, ROC; May 19 th -23 rd ,2013				

Nationa	al	
3.	"Impact of Rainfall Trend on Irrigated Agriculture of Narayanapura Command in a Semi-Arid Region of South India"	2022
	Journal of Agriculture and Ecology Research International 23(3): 1-18, 2022; Article no. JAERI.84009; ISSN: 2394-1073	
4.	"Analysis of long-term aquifer information to facilitate sustainable groundwater management in Hard rock regions"	2021
	Awarded Best Paper	
	Fourth Indian National Groundwater Conference (INGWC-2021): VII Annual Convention of Association of Global Groundwater Scientists (AGGS), Organized by Centre for Water Resources, JNTU and Association of Global Groundwater Scientists (AGGS), Coimbatore, India, in collaboration with IIT, Hyderabad and NGRI, Hyderabad. March 22-24, 2021	
5.	"Impact of Landscape Dynamics on Hydrological Parameters and Springshed Development"	2019
	Young Scientist Award for best paper	
	2nd Triennial Congress of FIGA held at CSIR- NGRI, Hyderabad October 13th -16th, 2019.	
6.	<i>"Effective Rainfall availability for command area management under various climate change scenarios"</i>	2019
	Two Days National Seminar on Water Management through Inter-basin Water Transfer Institution of Engineers (India) Belgaum Centre, 14th – 15th Sept. 2019	
7.	"Role of GIS models in assessing vulnerable districts for vector borne diseases under different climate change scenarios"	2017
	National Seminar on Climate Change: Challenges and Solutions 2017 By Dept. of Science and Technology, Govt. of Karnataka and EMPRI, Department of Forest Ecology and Environment, Govt. of Karnataka; 23 rd January 2017	
8.	<i>"Estimation of missing rainfall data using GIS techniques</i> – A case study around Kumudvathi watershed"	2013
	All India Conference on Waste Management and Pollution Control (WMPC-2014) Institution of Engineers (India) Belgaum Local Centre and KLE Dr. M.S. Sheshgiri College of Engineering and Technology, Belgaum, 7 th & 8 th March 2014	
9.	"Planning Integrated Urban Water Resource Management using Remote Sensing and GIS"	2013
	National Conference on Recent Advances in Civil Engineering-2013 KLE Dr. M.S. Sheshgiri College of Engineering and Technology, Belgaum. 29 th and 30 th April 2013	
10.	"Planning Integrated Water Resource Management Using Geomatic Techniques A case study around Ajjampura, Chikkamagalur District"	2012
	5 th Annual KSTA Conference by KSTA Dept. of Science and Technology, Govt. of Karnataka and Dayananda Sagar College of Engineering (DSCE), Bengaluru. 19 th – 20 th December 2012	

Resource Persons in conducting Trainings, Workshops and Lectures

1.	One Week "Hands-on training on Geographical Information System (GIS)"		
	rd – 7 th Jan 2022 at KLE Society's Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi		
2.	Hands-on-Training Workshop on "Estimation of Yield and Floods"	2021	
	during 8 th – 12 th Feb 2021, for officers of Karnataka Power Corporation Limited, Bangalore		
3.	"STTP workshop on skill upgradation in Total Station and IRNS"	2020	
	during 9th – 13th Jan 2020 at AMC Engineering College, Bengaluru		
4.	Applications of Inverse Modelling and GIS in Water Resources Engineering	2020	
	during 9 th – 10 th June 2020 at B.L.D.E. A's V.P. Dr.P.G.Halakatti College of Engineering and Technology, Bijapur		
5.	Training on Irrigation Management during Water Crisis for Engineers working in WRD, Govt. of Karnataka	2019	
	during 29 th – 31 st August 2019 at Water and Land Management Institute, Dharwad		
6.			
	during 5 th – 10 th April 2019 at KLE Society's Dr. M. S. Sheshgiri College of Engineering and Technology, Belagavi		
7.	Training course on Yield and Flood Estimation	2018	
	during 12 th - 16 th November 2018 at Maharashtra Engineering Training Academy, Nashik		
8.	Guest Lecture on "Water Resource Management"		
	during 2 nd April 2018 at East West Institute of Technology, Bengaluru		
9.	National Workshop on "Application of Remote sensing and Geographical Information System"	2018	
	during 2 nd – 4 th February 2018 at S.G.Balekundri Institute of Technology, Belagavi		
10.	"Training Program "Geographical Information Systems – Basic Course"	2010	
	during 28th – 30th June 2010 at Global Academy of Technology, Bengaluru		