

# **Dr. D. C. Jhariya**

*FGSI, FISRS, FIAH, FAEG*

## **Assistant Professor**

Department of Applied Geology  
National Institute of Technology Raipur  
G. E. Road, Raipur (Chhattisgarh) INDIA  
**Contact No.** 09754244867; 09406548947  
**Email Id:** dcjhariya.geo@nitrr.ac.in



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## **Academic Profile:**

1. Ph.D. completed in Applied Geology (Faculty of Engineering) from Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh in March, 2013.
2. M.Tech (Applied Geology) from Department of Applied Geology, Dr. Hari Singh Gour Vishwavidyalaya, Sagar (Madhya Pradesh) Completed in Year 2007.
3. B.Sc. (Geology) From Govt. Autonomous P.G. Collage Chhindwara Madhya Pradesh Affiliated to Dr. Harisingh Gour Vishwavidyalaya, Sagar, Madhya Pradesh Completed in Year 2004.
4. Higher Secondary from Mathura Prasad Higher Secondary School Chhindwara (Madhya Pradesh) Board –M P Board BHOPAL (Class XII) Completed in 2001.
5. High School from Jaggannath Higher Secondary School Chhindwara (Madhya Pradesh) (Class X) Completed in 1998.

## **Teaching Experience:**

Assistant Professor in the Department of Applied Geology, National Institute of Technology, Raipur (Chhattisgarh) since 09.10.2009 (till date).

## Research Paper Published in National/International Journals:

- [1] **Jhariya, D. C.**, Kumar, Tarun, Gobinath M., Diwan, Prabhat, and Kishore, Nawal (2016). Assessment of Groundwater Potential Zone Using Remote Sensing, Geographical Information System and Multi-Criteria Decision Analysis. *Journal of the Geological Society of India*, Vol.88(4), pp.481-492.
- [2] Kumar, Tarun, Gautam, Amar Kant and Jhariya, **D. C.** (2016). Multi-criteria decision analysis for planning and management of groundwater resources in Balod District, India. *Environmental Earth Sciences*. Vol. 75(8), pp. 1-16. DOI: 10.1007/s12665-016-5462-3.
- [3] Kumar, Tarun & **Jhariya, D.C.** (2016). Identification of Rainwater Harvesting Sites using SCS-CN Methodology, Remote Sensing and Geographical Information System Techniques. *Geocarto International*. DOI: 10.1080/10106049.2016.1213772.
- [4] **Jhariya, D. C.**, Kumar, Tarun, Dewangan, Rakesh, Pal, Dharm, Dewangan, Pankaj Kumar.(2016). Assessment of Groundwater Quality Index for Drinking Purpose in the Durg District, Chhattisgarh Using Geographical Information System (GIS) and Multi-Criteria Decision Analysis (MCDA) Techniques. *Journal of the Geological Society of India*. Ms. No. JGSID1500189R1. Accepted 31 May 2016.
- [5] Khan, Rubia and **Jhariya, D.C.** (2016) Land Use Land Cover Change Detection Using Remote Sensing and Geographic Information System in Raipur Municipal Corporation Area, Chhattisgarh. *SSARSC International Journal of Geo Science and Geo Informatics* Volume 3 Issue 1. pp.1-4.
- [6] Kumar, Tarun and **Jhariya, D.C.** (2015): Land quality index assessment for agricultural purpose using multi-criteria decision analysis (MCDA), *Geocarto International*, Vol.30(7) pp. 822-841, DOI: 10.1080/10106049.2014.997304.
- [7] **Jhariya, D. C.**, Shrivastav, Swati a, Nage, S. K. and Chatterjee, R. S. (2015). Integrated Remote Sensing and GIS Approach to Groundwater Potential Delineation In the Doon Valley, Uttarakhand, India *SSARSC*

International Journal of Geo Science and Geo Informatics Volume 2  
Issue 1, April 2015,pp.1-12 ISSN 2348-6198.

- [8] **Jhariya, D.C.** (2014). Anthropogenic activities and groundwater pollution of Sagar Town in Madhya Pradesh, India. International Journal of Arts and Science, Vol.7, pp. 295-302.
- [9] **Jhariya, D.C.** and Dewangan, R. (2013). Fluoride contamination and its possible sources in the groundwater of Chhattisgarh, Madhya Bharti Research Journal, Vol.LVII, pp.75-85.
- [10] Thakur G.S. and **Jhariya D.C.** (2009). Quality of groundwater in Rahatgarh Block, District Sagar, Madhya Pradesh. Gondwana Geological Magazine, V.24 (I), pp.29-34.

**Research Paper Published in National/International  
Conferences/workshop:**

- [1] **Jhariya, D.C.**, Khan, R., Thakur, G.S. (2016) Impact of Mining Activity on Water Resource : An Overview study. National Seminar on Recent Practices & Innovations in Mining Industry. ISBN NO. : 978-93-5258-251-8.
- [2] Rubia and **Jhariya, D.C.** (2015) A Geological study for the Occurrence of Arsenic Contamination in Groundwater in Rajnandgaon District Chhattisgarh, India: A Review. Workshop on Geogenic contamination in Groundwater of Chhattisgarh with special reference to Arsenic. Central Ground Water Board, NCCR, Ministry of Water Resources, River Development & Ganga Rejuvenation. Govt. of India. pp. 92-101.
- [3] Rubia, **Jhariya, D.C.** and Singh, V.K. (2015) Urbanization and its impact on Groundwater: An Overview. Workshop on Groundwater issues and challenges in Chhattisgarh state with special reference to its Conservation, Security and Quality. Central Ground Water Board, NCCR, Ministry of Water Resources, River Development & Ganga Rejuvenation. Govt. of India. pp.127-136.
- [4] **Jhariya D.C.**, Shandilya A. K. and Dewangan Rakesh (2012). Nitrate Pollution in the Groundwater around Sagar Town, Madhya Pradesh, India. International Conference on Chemical, Ecology and Environmental Sciences (ICEES'2012) March 17-18, 2012 Bangkok.

- [5] Abhaynand Yadav, **Jhariya D.C.**, Md. Qaisarul Haque & Singh Neelratan (2012). Environmental Aspects of water pumping from the wells in Coal Bed Methane potential areas in different coal fields of India. University Grant Commission, New Delhi Sponsored National Seminar on Emerging Trends in Scientific Research 11th to 12th October 2011, Organised by Department of Geology, Govt.V.Y.T.PG. Autonomous College, Durg (Chhattisgarh)
- [6] Nancy Raina, Baghel Devendra, **Jhariya D.C.** and Singh Neelratan (2012). Why there is Very less Rain in the Ladakh Region? University Grant Commission, New Delhi Sponsored National Seminar on Emerging Trends in Scientific Research 11th to 12th October 2011, Organized by Department of Geology, Govt.V.Y.T.PG. Autonomous College, Durg (Chhattisgarh).
- [7] **Jhariya D.C.**, Shandilya A. K. & Dewangan Rakesh (2011). Assessment of Nitrate concentration in the groundwater in and around Sagar Town, Madhya Pradesh, India. National Workshop on Groundwater pollution around Industrialization clusters: Mitigation and Management, Conducted by the Central Groundwater Board, North Central Chhattisgarh Region, Raipur, Chhattisgarh on 23<sup>rd</sup> February 2011.

#### **National/International Conferences/Training Organized:**

- [1] Coordinated one week Short Term Training Programme on "Recent Advancement in Groundwater Development and Management" under Technical Education Improvement Programme (TEQIP) from 8th August 2016 to 12th August 2016 as a Coordinator.
- [2] Organizing member of 25th International Cartographic Congress organized by Indian National Cartography Association (INCA) at Dr. Harisingh Gour Vishwavidyalaya, Sagar, (Madhya Pradesh) November 28 to December 1, 2005.

**Details of Sponsored Research Projects:**

S. No.	Title	Cost in Lakh	Duration	Role as PI/CoPI	Agency	Status
1.	Identification of Potential Groundwater Artificial Recharge Zones for Rainwater Harvesting in Raipur Municipal Corporation and Naya Raipur Area, Chhattisgarh	5.00	2016-2019	Principle Investigator	Chhattisgarh Council of Science & Technology (CGCOST)	On-going

**Details of Consultancy Research Projects:**

S. No.	Title	Cost in Lakh	Duration	Role as PI/CoPI	Agency	Status
1.	Water audit and ground water harvesting system S.V. Airport, Raipur.	5.00	2017-18	Co-Investigator	S.V. Airport, Raipur	Ongoing
2.	Preparation of drainage pattern of industries linked to Ganga River basin and reporting the status of pollution from the industries	24.71	2015-2016	Co-Investigator	Chhattisgarh Environment Conservation Board	On-going
3.	Testing of soil resistivity for the Steel Plant at Tandwa Village Tilda Area Chhattisgarh	0.15	2011	Principle Investigator	Shri Bajrang Power & Ispat Pvt. Ltd., Tilda, Raipur, Chhattisgarh	Completed
4.	Testing of soil resistivity Foundation Design at Ramsada Industrial Estate Durg Chhattisgarh	0.12	2010	Principle Investigator	M/S. Chadalavada Infratech Ltd., Durg, Chhattisgarh	Completed

**Training/Workshop/Orientation Course Attendant:**

S.No.	Institution	Training Title	Duration	
			From	To
1	Geological Survey of India, Govt. of India	Geological Mapping and Mineral Exploration	04.06.2016	10.06.2016
2	Institute of Remote Sensing, Dehradun 4, Kalidas Road, Dehradun (Uttarakhand)	Application of Remote Sensing & GIS in Geosciences	05.05.2013	28.06.2013
3	Rajiv Gandhi National Groundwater Training and Research Institute Raipur	Application of Remote Sensing and GIS in Groundwater Studies	09.04.2012	13.04.2012
4	Rajiv Gandhi National Groundwater Training and Research Institute Raipur	Coastal and Island Hydrogeology	12.12.2011	16.12.2011
5	Central Groundwater Board, North Central Chhattisgarh Region, Raipur, Chhattisgarh	Groundwater Development and Management	29.11.2010	03.12.2010
6	Institute of Remote Sensing, Dehradun 4, Kalidas Road, Dehradun, Uttarakhand	Edusat based Training on: Remote sensing, GIS & GPS	29.01.2007	09.04.2007

**Thesis/Dissertation Guided/Supervised:**

- Ph.D(Applied Geology)-07 (01 Completed, 06 Undergoing)
- M.Tech(Applied Geology)-04( Completed)

**Research Areas:**

- Hydrogeology
- Environmental Geology
- Water Resource Management
- Remote Sensing and GIS

## **Foreign Visits:**

- [1] Visited Hongkong for the attending and Research Paper Presentation in the 247th International conferences on Engineering and Natural Science (ICENS) held at Hongkong during March 27-28 August 2017.
- [2] Visited USA for the attending International Conference and Research Paper Presentation in the International conference held from dated 23 May, 2016 to 27 May, 2016 at Harvard Medical School, Harvard University, 77 Avenue Louis Pasteur, Boston, Massachusetts.
- [3] Visited Malaysia 4th International Conference on Advances in Social Sciences (ICASS) (Kuala Lumpur) held at Kuala Lumpur 218 Jalan Ipoh, 51200 Kuala Lumpur during 27th and 28th December, 2014.
- [4] Visited Italy for the attending International Conference and Research Paper Presentation held at the Ca' Foscari University of Venice, Santa Croce 2161, 30135 Venice, Italy, from 30 June to 3 July 2014.
- [5] Visited in Bangkok (Thailand) for the attending International Conference and Research Paper Presentation during March 17-18, 2012.

## **Professional/Recognition/Responsibilities/ Award/Honours/Achievements/:**

### **❖ Editor/Reviewer:**

- [1] Water Resources Management  
ISSN: 0920-4741 (Print) 1573-1650 (Online)
- [2] Geocarto International  
ISSN: 1010-6049(Print) ISSN: 1752-0762(Online)
- [3] SSARSC International Journal of Geo Science and Geo Informatics –  
ISSN 2348-6198
- [4] Journal of Water Resource Engineering and Management (JoWREM)  
eISSN: 2349-4336
- [5] Journal of Geotechnical Engineering (JoGE)  
eISSN: 2394-1987

[6] International Journal of Geological and Geotechnical Engineering

[7] International Journal of Water Resources Engineering

❖ **Membership:**

[1] Lifetime Member, Geological Society of India

[2] Lifetime Member, Indian Association of Hydrologists

[3] Member, International Association of Hydrogeologists

[4] Lifetime Member, South Asian Association of Economic Geologists

[5] Lifetime Member, India Society of Remote Sensing

[6] Lifetime Member, India Society of Geomatics

[7] Member, International Association of Geoscience Diversity

[8] Honorary Lifetime Fellow Member, Scientific Society of Advanced  
Research and Social Change

[9] Lifetime Member, Geological Association and Research Centre  
Balaghat, Madhya Pradesh

❖ **Best Paper Presentation award:**

A research paper entitled "Groundwater Potential Study Using Remote Sensing and GIS Techniques in Durg district of Chhattisgarh, India" presented in an 4th International Conference on Advances in Social Sciences (ICASS-2014) which was held at Kuala Lumpur, Malasiya during 27<sup>th</sup>-28<sup>th</sup> December, 2014.

Based on effective presentation and excellent works, research paper was adjudged as the best Paper Presentation of the conference.

❖ **Resource person/ Keynote Speaker/ Chaired Session**

[1] Delivered guest lecture entitle "Basic Hydrogeology" from dated 08th Feb 2018 dated 09th Feb 2018 in the office of Executive Engineer, Rural Engineering Service, Mandla, Govt. of Madhya Pradesh



- [2] Delivered guest lecture entitle "Basic Hydrogeology" on dated 01<sup>st</sup> Feb 2018 in the office of Executive Engineer, Rural Engineering Service, Dindori, Govt. of Madhya Pradesh.
- [3] Delivered guest lecture entitle "Ozone Layer Depletion – Causes, Effects and Solutions" on date 16th Sepetember 2016 in the World Ozone Day at Chhattisgarh Science Centre, Raipur, Govt. of Chhattisgrah, Raipur Chhattisgarh.
- [4] Chaired session in the International Conference on dated dated 23 May 2016 at Harvard Medical School, 77 Avenue Louis Pasteur, Boston, Massachusetts.
- [5] Chaired session in the International Conference held at the Ca' Foscari University of Venice, Santa Croce 2161, 30135 Venice, Italy, on dated 30 2014.

#### ❖ **Recognition /Responsibilities**

- [1] Prof. In-charge, Green Committee, NIT Raipur.
- [2] Served as Assistant Superintended Examination, National Institute of Technology, Raipur (Chhattisgarh) during the Examination of Years 2011, 2012, 2013, 2014 and 2017.
- [3] Member, Departmental Academic Committee (DAC), Department of Applied Geology, NIT Raipur
- [4] Member, Departmental Grievance Committee , Department of Applied Geology, NIT Raipur
- [5] Member, Departmental Purchase Committee , Department of Applied Geology, NIT Raipur
- [6] Member, Departmental Purchase Committee , Department of Mining Engineering, NIT Raipur
- [7] Member, Departmental Grievance Committee , Department of Mining Engineering, NIT Raipur
- [8] Member, PhD, Departmental Guidance Committee , Department of Applied Geology, NIT Raipur

[9] Member, PhD, Departmental Guidance Committee , Department of Mining Engineering, NIT Raipur

[10] Served as Corporals, NCC-Junior Division, Jaggannath Higher Secondary School Chhindwara (Madhya Pradesh) 24 M.P. Battalion Chhindwara during 1997-98.