

Resume: Jyoti Chandrawanshi

Dr. Jyoti Chandrawanshi

Guest Faculty (S.S. in Geology & WRM, Pt. Ravishankar Shukla University,
Raipur, Chhattisgarh)

Email - : jyotichandrawanshi00@gmail.com

1. OBJECTIVE

To be self reliant, to gain more advanced knowledge to work for the society.

2. EDUCATIONAL QUALIFICATION

Sr. No.	Examination/ Degree	Year	Subject/ Specialization	University/ Board	Percentage
1	Ph.D.	2019	Geology	Pt. Ravishankar Shukla University, Raipur	Awarded
2	Post-Graduation (M.Sc.)	2012	Geology	Pt. Ravishankar Shukla University, Raipur	69.5
3	Graduation (B.Sc.)	2010	Geology, Chemistry & Zoology, FC	Bastar University, Jagdalpur	61.3
4	Higher Secondary 12 th	2007	Biology, Physics, Chemistry, English and Hindi	CGBSE, Raipur (C.G.)	63.2
5	High School 10 th	2005	Math's, Science, English and Hindi, Social Science, Sanskrit	CGBSE, Raipur (C.G.)	61.5

3. RESEARCH EXPERIENCE

➤ Research Experience at Pandit Ravishankar Shukla University, Raipur

My Ph.D. research deals with finding the source of contamination of fluoride in groundwater in granitic terrain of kanker district. My Ph.D. thesis entitled “**Hydrogeochemistry of Fluoride in Groundwater of Dumarpani-Ankhiharra Area, District Kanker, Chhattisgarh with Special Reference to Usability of Water for Drinking**” under the supervision of **Prof. S. K. Pande**. The research has carried out with the help of groundwater sample analysis, rock sample analysis (EPMA) and resistivity survey. The research reveals that the source of fluoride contamination in groundwater of Dumarpani-Ankhiharra area is geogenic and F-bearing minerals (fluorite, fluorapatite and biotite).

➤ **Key of Research Responsibilities**

- **Data Preparation**

- Collection of Resistivity data from Study area using Resistivity Instrument.

- Collection of Groundwater samples.
- Geo-referencing of Survey of India Toposheet.
- **Data Analysis**
 - Geochemical analysis of Groundwater sample.
 - Interpretation of Resistivity data using **IPI2win software**.
- **GIS Works**
 - **Geo-referencing** of Survey of India Toposheet.
 - **Clip, Merge and Projection** of Survey of India toposheet using spatial analysis tool.
 - Digitization of Drainage System, Waterbodies and Thematic layers of Study area from toposheet.
 - Preparation of Groundwater Quality map using Arc GIS.
 - Morphometric Analysis (Linear, Aerial and Relief parameters).
- **GIS Modeling**
 - Valuation of Relief, Aspect & Slope parameters from **SRTM satellite data** (DEM data).
 - **Spatial analysis** modeling (IDW, Spline & Contouring etc.).

4. SKILL HIGHLIGHTS

- **Software knowledge**
 - ARCGIS Desktop 10.1
 - AutoCAD2010
 - Windows 2008, Windows 2007.
 - Microsoft Office 2007 & Internet Browsing
 - Resistivity Software (Ipi2win)
- **Geological Instrument Handling**
 - GPS (Garmin Montana 680)
 - Water-Soil Analyser Kit (CMK 731-AT)
 - Clinometers (Brunton Compass)
 - Microscope (Binocular Petrological Microscope)
 - Resistivity Meter (Model: SSR-MP_ATS)

5. RESEARCH PAPERS PUBLISHED

1. **Chandrawanshi, J.** and Pande, S. K. (2018) Groundwater quality with reference to fluoride contamination, Dumarpani Watershed, Block Narharpur, District Kanker, Chhattisgarh, Journal of Applied Geochemistry, 20(1):133-139.

6. RESEARCH PAPERS PRESENTED IN NATIONAL SEMINAR/CONFERENCES/WORKSHOP

1. Pande, S. K., **Chandrawanshi, J.** and Singh, A. (2014) Morphometric analysis of Jhura Stream Watershed, Kanker District, CG, National seminar on recent researches in Earth and

atmospheric Sciences, at Pt. Ravishankar Shukla University, Raipur 24-26 Feb. 2014, Abst:p35.

2. **Chandrawanshi, J.** and Pande, S. K. (2018) Fluoride contamination in hydrogeo-environment of Dumarpani–Ankhiharra area, Narharpur Block, Kanker District, Chhattisgarh, UGC- SAP (DRS-II) 2nd National Conference on Advancement in Environmental & Chemical Sciences, 22-23 March, 2018, Abst:p27.
3. **Chandrawanshi, J.** and Pande, S. K. (2018) Fluorite Saturation in Groundwater of Dumarpani Stream Watershed, District Kanker, Chhattisgarh, Workshop on “Groundwater Management and its issues in Chhattisgarh” CGWB, NCCR, Raipur Abst:p56-58.

7. RESEARCH PAPER PRESENTED IN CHHATTISGARH YOUNG SCIENTISTS CONGRESS

1. **Chandrawanshi, J.** (2016) Contamination of fluoride in groundwater leading to Fluorosis in Dumarpani area, Block Narharpur, District Kanker, Chhattisgarh, 14th Chhattisgarh Young Scientists Congress, Bilaspur University, Bilaspur, 28-29 Feb.2016, Abst:p63.
2. **Chandrawanshi, J.** (2018) Aquifer delineation in Dumarpani Stream Watershed using Electrical Resistivity Survey, Kanker District, Chhattisgarh, 16th Chhattisgarh Young Scientist Congress, Govt. V.Y.T.P.G. Auto. College, Durg (C.G.), 27-28 Feb. 2018, Abst:p80.
3. **Chandrawanshi, J.** (2019) The source of fluoride in drinking water of Dumarpani-Ankhiharra Area, Narharpur Block, District Kanker, Chhattisgarh, 17th Chhattisgarh Young Scientist Congress, Pt. Ravishankar Shukla University, Raipur (C.G.), 28 Feb & 1 March, 2019, Abst:p105.

8. WORK EXPERIENCE

- **Dissertation Work**
 - Study of **Water Quality of Ranwabhata and Urkura Industrial Area**, Raipur (C.G.), under the supervision of **Dr. D. P. Kuity** (Pt. Ravishankar Shukla University, Raipur) in the year 2012.
- **Field Work**
 - An intensive Geological Field Work in Kanker District for study of source of **Fluoride** in the area and also Collection of **water samples** from Study area.
 - **Water sampling from Raipur and adjoining areas for** the assessment of water quality in the year 2012.
 - Geological Excursion **Mahasamund District**, Chhattisgarh in M.Sc. II semester, year 2011.

9. AWARDS

- Achieved a **Pt. Ravishankar Shukla University Gold medal** in M.Sc. (Geology) for obtaining highest marks in **Department of Geology**, in the year 2012 by Pt. Ravishankar Shukla University, Raipur (C.G.).
- Achieved a **Pt. Ravishankar Shukla University Research Fellowship** in Ph.D. by Pt. Ravishankar Shukla University, Raipur (C.G.).

10. PERSONAL DETAIL

Name : Jyoti Chandrawanshi
Father's Name : Shri Anil Kumar Chandrawanshi
Mother's Name : Smt. Shanti Chandrawanshi
Date of Birth : 26th September 1990
Marital Status : Unmarried
Correspondence Address : W67/G/805
Near Bharat General Store, Ganpati Nagar,
New Changorabhata,
Raipur (C.G.) - 492013

11. DECLARATION

I hereby declare that the information furnished above is true to my knowledge.

Place: Raipur

Date:

(Jyoti Chandrawanshi)