

Curriculum Vitae

MANAS RANJAN JENA

Dept. of Earth Sciences, Sambalpur University

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Personal Profile

I am an energetic, ambitious person who has developed a mature and responsible approach to any task that I undertake or situation that I am presented with. I have good communication skills; have also a good creative understanding.

Key Skill & Strength

A self motivated student.

Knowledgeable- Resourceful about the Geological Field

Insightful- Highly motivated to learn and experience

Educational Qualification

Doctor of Philosophy (Ph.D.) in Geology

Awarded : Sambalpur University

Research field: Hydrogeology

Master of Philosophy (M.Phil.) in Applied Geology

University: Sambalpur University

Department: Department of Earth Sciences

Year: 2015-2016

Percentage: 80

Master of Science (M.Sc.) in Applied Geology

University: Sambalpur University

Department: Department of Earth Sciences

Year: 2013-2015

Percentage: 76.9

Bachelor of Science (B.Sc.) in Geology

University: Utkal University

Institution: A.S.D College, Tirtol, Jagatsinghpur, Odisha

Year: 2010-2013

Percentage: 66.72

+2 Science

Board: CHSE, Odisha

Institution: A.S.D College, Tirtol, Jagatsinghpur, Odisha

Year: 2008-2010

Percentage: 66.33

Matriculation (10th)

Board: BSE, Odisha

Institution: B.B. High School, Biswali

Year: 2008

Percentage: 53.25

Extra Qualification

CSIR-NET (Lectureship) – 2015 Dec (AIR- 111)

CSIR-NET (JRF)-2017 Dec (AIR-138)

IIT-GATE-2019 & 2020

List of Technical/Software Skill

Operating System: Microsoft Windows 7, 8, 8.1, 10

Computer Skill: Microsoft Office (Word, Excel & PowerPoint)

Specialized Machinery Knowledge: Double distillation plant, Water Analyzer (systronics), Flame Photometer (systronics) and UV spectrophotometer and SSR-MP-ATS resistivity meter

Software Skill: Groundwater (GW Chart, AqQA & AquaChem 9.0), IPI2win (VES resistivity software), ArcGIS software, SPSS software (statistical analysis), Past4.03, and PHREEQC software for saturation index of minerals

Geological Instruments Handled

Brunton Compass

Compass Clinometer

Contact Goniometer

Petrological Microscope

Toposheet

Field Study

M.Sc. Study Tour

In M.Sc. 1st year

We visited to Mahanadi River Bed near Hirakud for structural study tour, where we did various types of mapping. We observed different types of folds, faults, joints, shear zones etc. and also identified the shear sense indicators, gas veins etc. This field tour is continued for 5 days under the guidance of Prof. Asutosh Naik. After that, we had gone to Lower Gondwana, Talchir for studying the sedimentary structures and how to know the top bottom criteria from the cross bedding.

In M.Sc. 2nd year

We visited to **NIRD** - National Institute of Rural Development, Hyderabad

NRSC- National Remote sensing Centre, Hyderabad

ISRO- Indian Space Research Organization, Hyderabad

NGRI- National Geophysical Research Institute, Hyderabad

INCOIS- Indian National Centre for Ocean Information Services, Hyderabad

This field tour is continued for 5 days under the guidance of Dr. Jagadish Kumar Tripathy

B.Sc. Study Tour

In my B.Sc. level we visited to Talchir coal field (underground and opencast) and Fe-Mn mines Keunghar, Odisha, India with our guide and we had known various types of exploration technique and know the use of Brunton and Clinometer compass to measure the orientation of directional features.

Extracurricular Activities

Story Writing (State Level Competition in School Career, 3rd Prize)

Guidance

I have guided about ten M.Phil. scholars during my Ph.D. research career. I also assist P.G. students during their geological field trip to Mahanadi River Bed, Sambalpur, Odisha. I not only teach the M.Sc. syllabus but also guide them to prepare for entrance examination such as CSIR-NET, GATE and GSI.

TRAINING AND WORKSHOPS

1. One Weak Short Term Training Program on “Recent Advancement in Groundwater Development and Management” Organized by department of Applied Geology, NIT Raipur
2. Tier II State Level Training Course on “Aquifer Mapping & Management” at Sambalpur University, Organized by Central Groundwater Board, South Eastern Region, Bhubaneswar under the aegis of Rajiv Gandhi National Groundwater Training & Research Institute, Raipur
3. Training Course on Groundwater Exploration and Management (A CSIR Integrated Skill Initiative) Organized by CSIR-NGRI, Hyderabad
4. Workshop on “Research Matrics and Reference Management Tools” Organized by P.G. Dept. of Library and Information Science, Sambalpur University, Odisha
5. 2-Day Workshop on “Research Methodology” for the research scholars at Sambalpur University
6. The Training Course on “Local Groundwater related issues and Participatory Groundwater Management” held at Sambalpur University, Organized by CGWB, South Eastern Region, Bhubaneswar (Department of Water Resources, River Development and Ganga Rejuvenation)
7. Two-Days National Workshop on “Application of Geospatial Technology in Field Research” under the joint auspices of P.G. Department of Environmental Sciences and P.G. Department of Earth Sciences, Sambalpur University

LIST OF PUBLICATIONS

Publication in Journals:

1. Jena, M.R., Tripathy, J.K., Sahoo, D. et al. Geochemical Evaluation of Groundwater Quality in the Coastal Aquifers of Kujang Block, Jagatsinghpur District, Eastern Odisha, India. *Water Air Soil Pollut* 235, 349 (2024). <https://doi.org/10.1007/s11270-024-07153-x>.
2. Jena, M. R., Tripathy, J. K., Panda, S. R, & Barik, K.K (2020). Groundwater hydrochemistry in Biswali Panchayat, Kujang Block, Jagatsinghpur district, Odisha. *Shodh Sarita*, 7(28), 32-37.
3. Sahoo, S., Tripathy, J. K., Panda, S. R., Sahoo, D., Sahu, P., & Jena, M. R. (2022). Geoelectrical Investigations of Ground Water in the Coastal aquifers of Krushnaprasad Block, Puri District, Odisha, India. *International Journal of Lakes and Rivers*, 15(2), 111-119.

PRESENTATION IN CONFERENCE/NATIONAL SEMINAR

1. Jena, M.R., Tripathy, J.K., Sahoo, D., & Sahu, P. (2022). Hydrochemical characterization and quality assessment of groundwater in some parts of Kujang Block, Jagatsinghpur District, Odisha. 1st Global Summit on Sustainable Science and Technology, 2022 (GS³T 2022), 15-16th September, 2022, School of Basic and Applied Sciences, Adamas University, Kolkata, West Bengal.
2. Jena, M.R., Tripathy, J.K., Sahoo, D., Sahu, P., & Sahoo, S. (2022). Evaluation of water quality and hydrochemistry of groundwater in some parts of Kujang block, Jagatsinghpur district, Odisha, India. National seminar on Science & Technology in Combating Climate Change, 23rd Odisha Bigyan 'O' Paribesh Congress, November 26-27, 2022, Sambalpur University, Jyoti Vihar, Burla, Odisha.
3. Jena, M.R., Tripathy, J.K., Sahoo, D., & Sahu, P. (2023). Identification of hydrochemical processes in Kujang Block, Odisha, India. National seminar on Environmental, Development and Society, March 20-21, 2023 under the joint auspices of P.G. Department of Earth Sciences and P.G. Department of Sociology, Sambalpur University, Jyoti Vihar, Burla, Odisha.