

TEJASWAI LAKKUNDI

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Summary

A professionally educated Geologist with Post-graduation in Applied Geology and Doctorate in Hydrogeology having a combined total of more than 13 years of professional experience in the fields of teaching, research, mineral exploration and mining.

Education

Doctor of Philosophy (Ph.D.) – Hydrogeology

2011 – Karnatak University, Dharwad, India

Thesis title: *Hydrogeological, Remote Sensing and Environmental Studies of Sindhanur Nalla Sub-Basin, Raichur and Koppal Districts, Karnataka State, India.*

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

2002 – Karnatak University, Dharwad, India

Bachelor of Science (B.Sc.) – Geology, Physics, Mathematics

2000 – Karnatak Science College, Karnatak University, Dharwad, India

Work Experience – Academic, Research and Mineral Exploration Industry

1. Assistant Professor

March 2018 to till date

Department of Geology, School of Earth Sciences, Central University of Karnataka, Kalaburagi.

Job profile: Teaching post-graduate and under-graduate students, senior students' dissertation guidance, curriculum preparation and review, evaluation and other related academic & research activities.

2. Associate Professor

Oct. 2015 to Feb. 2017

Department of Geology, College of Natural Sciences, Arba Minch University, Ethiopia.

Job profile: Teaching post-graduate and under-graduate students, senior students' dissertation guidance, curriculum preparation and review, evaluation and other related academic & research activities.

New course introduced: Medical Hydrogeology (an elective course for PG students)

3. Teaching Assistant

Jan. 2014 to Oct. 2015

Department of Studies in Geology, Karnatak University, Dharwad.

Job profile: Teaching post-graduate students, dissertation guidance, evaluation and other related academic activities.

4. Senior Geologist

Oct. 2011 to Oct. 2013

Patel Mining Vision, Lda, Mozambique

Primary Role: Mainly involved in the planning and execution of mineral exploration programmes for Tantalite-Niobium and Marble licenses.

Tantalum-Niobium Projects:

Job profile: Desktop study, planning, geochemical sampling, geological mapping, interpretation of geological, geophysical and geochemical data, preparation of presentations and annual technical reports for internal purposes and for different Govt. agencies.

Marble Projects:

Job profile: Detailed geological mapping, planning and execution of exploratory diamond drilling programme, core logging, sampling, reserve estimation, and preparation of technical reports.

5. Teaching Assistant

Aug. 2010 to Aug. 2011

Department of Studies in Geology, Karnatak University, Dharwad.

Job profile: Teaching post-graduate students, dissertation guidance, evaluation and other related academic activities.

6. Project Fellow (UGC sponsored Major Research Project)

Nov. 2007 to Jul. 2010

Department of Geology, Karnatak University, Dharwad

Project Title: An integrated geological and geochemical investigation of the Chitradurga-Bhadravati sector across the granite-greenstone segment of western Dharwar Craton.

Job profile in brief: Geological mapping, sampling, mineralogical and petrographical investigations, preparation of project report etc.

7. Teaching Assistant

Jan. 2007 to Aug. 2007

Department of Studies in Geology, Karnatak University, Dharwad.

Job profile: Teaching post-graduate students, dissertation guidance, evaluation and other related academic activities.

8. Geologist

Jul. 2006 to Nov. 2006

The Hutti Gold Mines Company Ltd., Hutti, Karnataka.

Job profile: Primary development of auriferous ore bodies, sampling, underground geological and structural mapping, and preparation of technical reports.

9. Guest Faculty

Aug. 2004 to Jun. 2006

Department of Studies in Geology, Karnatak University, Dharwad.

Job profile: Teaching post-graduate students, dissertation guidance, evaluation and other related academic activities.

Work Experience – Academic Related Administrative Experience

- 1. DST – FIST and UGC Non-SAP Programs** (Infrastructure Development Programs)
Nov. 2006 to Oct. 2008
Department of Studies in Geology, Karnatak University, Dharwad.
Contribution: Significant contribution in the form of documentation, preparing infrastructure requirement papers for instruments and infrastructure including technical specifications, Call-for-interests, Tender process, Advertisements, Comparative Cost Statements etc. These contributions were spread from the initial step up to the successful implementation of the programs which were funded to the tune of Rs. 45.00 Lakhs and Rs.10.00 Lakhs respectively for DST-FIST and UGC Non-SAP.
- 2. Secretarial Assistance for the 15th Convention of Indian Geological Congress and National Seminar on “Geoexploration and Metal Mining: Vision 2025”.**
2006 - 2007
Indian Geological Congress (IGC) – Roorkee and Department of Studies in Geology, Karnatak University, Dharwad.
Contribution: Significant contribution right from the stage of planning for the event up to the successful completion of this national event. Contribution included communication with all participants, organizers, and sponsors etc., preparing event brochure and agenda, assisting participants, key-note speakers and managing numerous activities before, during and after the event.

Awards and honours

- Young Scientist Award by the Association of Hydrologists of India - 2005
- First Rank - M. Sc. (Applied Geology) – 2002
- 2 Gold Medals during post-graduation by Karnatak University - 2002
- Wrangler Dr. D.C. Pavate Diamond Jubilee Celebration Fund Prize by Karnatak University - 2002
- University Research Scholarship by Karnatak University to pursue PhD (2002-2006)

Membership of Academic Bodies

- Member of International Society for Fluoride Research (ISFR), New Zealand, since June 2008
- Member of International Association of Hydrological Sciences/Association Internationale des Sciences Hydrologiques (IAHS/AISH), UK, since December 2006
- Life Member of Association of Hydrologists of India (AHI) since December 2005.

Research Publications

Research Papers

- 1) Gaonkar, G. V., Gudagur, J. T. and **T. K. Lakkundi** (2016) *Impact of mining on surface water quality in the western part of Sandur Schist Belt, Karnataka, India – A preliminary investigation.* International Journal of Advanced Research, Vol. 4 (10), pp. 1475-1482.
- 2) Gaonkar, G. V., Gudagur, J. T. and **T. K. Lakkundi** (2016) *Ground water quality in the western part of Sandur Schist Belt, Karnataka, India.* International Journal of Earth Sciences and Engineering, Vol. 9, No. 4, pp. 1434 – 1440.

- 3) Ajaykumar N Asode, A. Sreenivasa and **T. K. Lakkundi** (2016) *Quantitative morphometric analysis in the hard rock Hirehalla sub-basin, Bellary and Davanagere districts, Karnataka, India using RS and GIS*. Arabian Journal of Geosciences, Vol. 9, Issue 5, Article 381, DOI: 10.1007/s12517-016-2414x (A Springer Publication).
- 4) Chandrashekharappa Agasnalli, M. Basavanna and **T. K. Lakkundi** (2014) *Textural and fluid inclusions' studies on Banded Iron Formations (BIFs) hosted gold mineralisation in the Nagavi area, Gadag Schist Belt, Dharwar Craton*. International Journal of Earth Sciences and Engineering, Vol. 7, No. 4, pp. 1593-1600.
- 5) Chandrashekharappa Agasnalli, M. Basavanna and **T. K. Lakkundi** (2014) *Geochemistry of Banded Iron Formations (BIF) and associated gold mineralisation of Nagavi, Gadag Schist Belt, Karnataka*. International Journal of Earth Sciences and Engineering, Vol. 8, No. 4, pp. 1880-1886.
- 6) Suresh, S. R., Basavanna, M. and **Lakkundi, T. K.** (2014) *Geology and geochemistry of mafic and felsic volcanics of Joga (Sandur Schist Belt), Karnataka*. International Journal of Earth Sciences and Engineering, Vol. 7, No. 5, pp. 1637-1645.
- 7) Nadagouda, B. V., **Lakkundi, T. K.**, Ugarkar, A. G., and Puranik, S. C. (2012) *Geo-electrical approach for groundwater prospecting in Deccan Trap terrain around Mudalgi village, Gokak taluk, Belgaum district, Karnataka*. International Journal of Earth Sciences and Engineering, Vol. 5, No. 3, pp. 457-462.
- 8) D. C. Kantharaja, **T. K. Lakkundi**, M. Basavanna, and S. Manjappa (2012) *Spatial analysis of fluoride concentration in groundwaters of Shivani watershed area, Karnataka state, south India, through geospatial information system*. "Environmental Earth Sciences" Journal (Springer), Vol. 65, No. 1, pp. 67-76.
- 9) Nadagouda, B. V., **Lakkundi, T. K.**, Nadagoudar, H. V. (2012) *Hydrochemical characteristics of groundwater of Mallapur halla sub-basin of Ghataprabha basin, Gokak taluka, Belgaum district, Karnataka*. Journal of Frontline Research in Arts and Science, Vol. 2, pp. 101-113.
- 10) Nadagouda, B. V., Ugarkar, A. G., **Lakkundi, T. K.**, and Olekar, K. R. (2009) *Vertical electrical sounding studies to delineate potential zones of groundwater occurrence in and around Hallur village, Gokak taluk, Belgaum district, Karnataka*. Geoenvironment: Challenges Ahead, MacMillan Advanced Research Studies, pp. 88-95.

Scientific Articles

- 11) Nadagouda, B. V., Ugarkar, A. G., and **T. K. Lakkundi** (2009) *Groundwater Exploration: Conventional and Scientific Methods* (Article in Kannada). Ratna Garbha Vasundhara, pp. 151-156, Prasaranga, Bangalore University, Bangalore.

Conferences / Seminars / Workshops

- TEQIP-II sponsored training program on *3D-Groundwater Flow and Contaminant Transport Modeling* at National Institute of Technology-Calicut (NIT-C), May 2014.
- Training course on *Advanced Hydrologic Modeling* at NIH, Kakinada, Feb. 2014
- TEQIP-II sponsored training program on *Groundwater Flow and Contaminant Transport Modeling* at National Institute of Technology-Calicut (NIT-C), Dec. 2013
- *First Geological Congress of Mozambique* held at Maputo, Mozambique, Nov. 2012
- DST supported "*Sensitization Workshop on Fluoride in Water*" at Shivaji University, Kolhapur, March 2011

- National Seminar on “*Hydrofracturing, Rainwater Harvesting and other techniques for enhancing yield of sub-surface structures*” organized by Central Ground Water Board, Ministry of Water Resources, Govt. of India, February 2010
- International Seminar on “*Crustal Evolution, Sedimentary Processes and Metallogeny*” organized by Geological Society of India and SDM College of Engineering and Technology, November 2007
- Attended and presented a poster at the *15th Convention of Indian Geological Congress and National Seminar on “Geoexploration and Metal Mining: Vision 2025”* held at Karnatak University, Dharwad, September 2007
- Attended and presented a paper at “*International Geological Conference – 2007 on Geoenvironment: Challenges Ahead*” held at University of Jammu, Jammu & Kashmir, April 2007
- Attended and presented a paper at “*XXIV Annual Convention of AHI and National Seminar on Hydrology with special reference to Urban Groundwater Pollution*”, December 2005
- International Seminar on Geoinformatics – 2004 held at Department of Geology, University of Mysore, Mysore
- *Workshop on Research Methodology* at Karnatak University, Dharwad (Jan. 2004)

Research Review

- 1) Invited Reviewer for *African Journal of Environmental Science and Technology*