

FACULTY PROFILE

Personal Information:

Name : Dr. M. PRASAD
Designation : Assistant Professor
Department : Department of Geology
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Email : mannala.prasad@ctuap.ac.in



Area of Specialization:

- Environmental Geochemistry
- Geospatial Technologies(Remote sensing and GIS)
- Hydrogeology.

Academic qualification

2018 **Ph.D. Earth Sciences**, Yogi Vemana University, Kadapa, Andhra Pradesh.
2010 **M.Sc. Geology & Geoinformatics**, Yogi Vemana University, Kadapa, A.P
2008 **B.Sc. Geology**, Govt. Arts College, S K University, Anantapur, A.P

Academic distinction

- Qualified **AP-SET** in Earth, Atmospheric, Ocean & Planetary Sciences.
- Qualified **CSIR-UGC JRF cum NET** Earth, Atmospheric, Ocean & Planetary Sciences.
- Awarded **INSPIRE fellowship** by the Dept. of Science and Technology (DST) New Delhi.
- Secured **First Rank with Distinction** (CGPA 8.29) in M.Sc. during 2008-2010.

Work/Teaching Experience

19-12-2022- Till date	Assistant Professor	Department of Geology, Central Tribal University of Andhra Pradesh , Vizianagaram. Andhra Pradesh-535003.
Feb, 2021- Dec, 2022	Academic Consultant	Dept. of Earth Sciences, Yogi Vemana University, Kadapa -516005, A.P
June, 2019 - Feb, 2021	Assistant Professor	Dept. of Civil Engineering, Chaitanya Bharathi Institute of Technology Proddatur, A.P.

Apr, 2018 – Sep, 2018	Research Associate,	NASI Senior Scientist Platinum Jubilee Fellowship To Dr. P.S Roy, Funded by NASI, India. Centre for Earth, Ocean and Atmospheric Sciences (CEOAS), University of Hyderabad , Hyderabad.
Jan, 2015- May 2017	INSPIRE – SRF (DST)	Dept. of Earth Sciences, Yogi Vemana University, Kadapa, Andhra Pradesh.
May, 2012- Dec, 2015	INSPIRE – JRF (DST)	Dept. of Earth Sciences, Yogi Vemana University, Kadapa, Andhra Pradesh.

Research, Scholarly, Professional and Scientific Activity:

Research publications in conference (National /International)

1. Veeraswamy Golla, Pradeep Kumar Badapalli, **Prasad Mannala**. (2021) Assessment of groundwater quality for drinking and irrigation in semi-arid regions of Andhra Pradesh, Southern India, using multivariate statistical analysis. *Arabian Journal of Geosciences*,(14)1967. <https://doi.org/10.1007/s12517-021-08332-4>
2. **M. Prasad**, T. Ramakrishna, M. Ramakrishna Reddy and V. Sunitha. Factors affecting the sinkhole formation in the Chitravathi River bed, South India. *Indian Journal of Environmental Protection*.ISSN:0253-7141v. **40 (7), 2020 (SCOPUS Indexed Journal)**.
3. Y. Sudharshan Reddy, V. Sunitha, B. Suvarna, **M. Prasad**, B. Muralidhara Reddy, M. Ramakrishna Reddy, Data on physical impacts and hydrogeochemical assessment of inactive/abandoned mines in and around Southwestern parts of the Cuddapah basin using a conceptual site model (CSM), *Data in Brief*, (29), 2020, 105187,ISSN 2352-3409. <https://doi.org/10.1016/j.dib.2020.105187> (**ELSEVIER**)
4. B. Suvarna, Y. Sudarshan Reddy, V. Sunitha, B. Muralidhara Reddy, **M. Prasad** and M. Ramakrishna Reddy. Data on Application of water quality index method for Appraisal of Water Quality in around Cement industrial corridor, YerraguntlaMandla, Y.S.R District, A.P South India. *Data in brief* 28 (2020) 104872ISSN: 2352-3409. <https://doi.org/10.1016/j.dib.2019.104872> (**ELSEVIER**)
5. B. Muralidhara Reddy, V. Sunitha, **M. Prasad**, Y. Sudharshan Reddy and M. Ramakrishna Reddy "Evaluation of groundwater suitability for domestic and agricultural utility in semi-arid region of Anantapur, Andhra Pradesh State, South India. " *Groundwater for Sustainable Development*” (9), 2019, 100262 (**ELSEVIER**). <https://doi.org/10.1016/j.gsd.2019.100262>

6. **M. Prasad**, Y. SudharshanReddy, E. Balaji, V.Sunitha and M. Ramakrishna Reddy Application of geospatial technology in evaluating the impact of mining-associated urbanization on agricultural lands. *Nature Environment and Pollution Technology*.18(3) 2019:1041-1044, e-ISSN 2395-3454, p_ISSN: 0972-6268 (**SCOPUS & WOS Indexed Journal**).
7. **M. Prasad**, B. Muralidhara Reddy, V. Sunitha, M. Ramakrishna Reddy and Y. Sudarshan Reddy "Inventory data on the sinkhole occurrences from Proterozoic Cuddapah Basin, India." *Data in Brief*, 25 (2019) 104054, ISSN: 2352-3409 (**ELSEVIER**) <https://doi.org/10.1016/j.dib.2019.104054>.
8. **M. Prasad**, V. Sunitha and M. Ramakrishna Reddy "Application of geospatial technology for landscape monitoring in and around Mangampeta Barytes mine, Andhra Pradesh, India." *Environment & We: an International Journal of Science & Technology. (SED India)*.2019, v.14, pp:123-142. 0975-7112 **UGC care listed**
9. **M. Prasad**, V. Sunitha Y. Sudarshan Reddy, B. Suvarna, B. Muralidhara Reddy and M. Ramakrishna Reddy "Data on Water quality index development for groundwater quality assessment in and around Obulavaripalli Mandal of YSR District, Andhra Pradesh, India". *Data in Brief*, 24C (2019) 103846, ISSN: 2352-3409 (**ELSEVIER**) <https://doi.org/10.1016/j.dib.2019.103846>.
10. E. Balaji, G. Veeraswamy and **M. Prasad**. "Assessing groundwater hydrochemistry of Atmakur, SPSS Nellore District, Andhra Pradesh, India. *Fresenius Environmental Bulletin* .2018 Vol. 27(11) pp: 7897-7905, ISSN: 1610-2304 (**SCIE Journal WOS indexed**).
11. **M. Prasad**, B. Muralidhara Reddy, M. Ramakrishna Reddy and V. Sunitha "Studies on physicochemical parameters to assess the water quality in ObulavaripalliMandal of YSR (Kadapa) District, Andhra Pradesh, India". *International Journal of Current Research and Academic Review*. 2014, Vol. 2 (12) pp. 31-41. ISSN No: 2347-3215.

National: 01

1. **M. Prasad**, M. Ramakrishna Reddy and V. Sunitha "Bedrock structural controls on the occurrence of sinkholes: a case study from part of Cuddapah basin, South India". *Journal of Indian Geophysical Union*, March 2017, Vol.21(2)pp: 124-139 ISSN: 0971-9709 (NISCAIR) &ISSN: 0257-7968 (**SCIE, WOS Indexed Journal**).

Books published as author or co-author or editor

1. Etikala Balaji, Golla Veeraswamy, Prasad Mannala, Sughosh Madhav (Eds) (2023) Emerging Technologies for Water Supply, Conservation and Management. Springer Cham publisher. <https://doi.org/10.1007/978-3-031-35279-9>.

2. M. Prasad, M. Ramakrishna Reddy and V. Sunitha, (2021). Geospatial Monitoring and Mapping of sinkholes from YSR District, Andhra Pradesh, India, Lambert Academic Publishing, Germany. ISBN: 978-6204214023

Book chapters published as author or co-author

1. **M. Prasad**, M. Ramakrishna Reddy (2021) Trace Elemental Analysis of Groundwater in and around Mangampeta Barytes Mines, Andhra Pradesh, India In V. Sunitha (Ed) Groundwater Sustainability & Techniques - A Geological Perspective, NFED Publications Coimbatore, Tamil Nadu, India, pp: 30-43
2. M. Nagarjuna Reddy, **M. Prasad** (2021) Groundwater Quality Evaluation in Bramhamgari Mattam Mandal, Y.S.R, Kadapa District, Andhra Pradesh, India In V. Sunitha (Ed) Groundwater Sustainability & Techniques - A Geological Perspective, NFED Publications Coimbatore, Tamil Nadu, India, pp: 30-43
3. T. Siva Prathap, A. Keerthi Reddy, **M. Prasad** (2021) Dam Site Suitability Evaluation Using Geospatial Technologies: A Case Study on Buggvanka Dam, Y.S.R, Kadapa District, Andhra Pradesh, India. In V. Sunitha (Ed) Groundwater Sustainability & Techniques - A Geological Perspective, NFED Publications Coimbatore, Tamil Nadu, India, pp: 30-43
4. Sudarshan Reddy Y., Suvarna B., **Prasad M.**, Sunitha V., Ramakrishna Reddy M. (2020) Temporal Changes of Solid Waste at Limestone Quarries in and Around Yerraguntla, YSR District, A.P., using Google Earth Images. In: Ghosh S. (Eds) Urban Mining and Sustainable Waste Management. **Springer**. https://doi.org/10.1007/978-981-15-0532-4_12
5. E. Balaji, G. Veeraswamy, S. Ramanaiah, **M. Prasad**, P.L. KesavaKiran Kumar. Statistical and analytical evaluation of Groundwater quality Atmakur area, SPSR Nellore District, AP, South India (**Emerging Trends in Civil Engineering**, Publisher: Springer Nature) https://doi.org/10.1007/978-981-15-1404-3_27

Research presentations (oral or poster) at professional or scientific meetings and conferences

1. Gangu Naidu Mandala, Appasaba L.V, **M. Prasad** and Tarakeswara Rao Ippili. **Farm Size's divergent implications on farm earnings and food production**” Presented in the 1st National Seminar on "Contemporary Innovations in Agri-Business Management, Exports and Rural Development - Challenges and Opportunities" (CIABM 2023). held on September 20, 2023 organized by Chandragupt Institute of Management Patna.
2. M Nagarjuna Reddy P.Anandhan, **M. Prasad**, T. Lakshmi Prasad. Presented a joint research paper titled “Determination of heavy metal contamination in groundwater sources in Tadipatri mandal of Anantapur district, Andhra Pradesh. India in the International Conference on Research Innovations and Challenges (ICRIC) 19-21 January 2023. Conducted by Centre for Research & Training (CRT), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu.

3. **M. Prasad**, M. Ramakrishna Reddy and V. Sunitha. **Sinkholes detection, mapping and assessment using Geospatial technologies: A study from the Proterozoic Cuddapah basin, India.** Presented in the International Conference on Advances in the Science of the Earth: Relevance to Society (ASERS 2022), during 24-26 Nov 2022, at SRTM University, Nanded.
4. M Nagarjuna Reddy, **M. Prasad**, P.Anandhan T. Lakshmi Prasad. **A study on hydro-geochemistry with reference to fluoride from Tadipatri Mandal of Anantapur District, Andhra Pradesh, India.** Presented in the International Conference on Advances in the Science of the Earth: Relevance to Society (ASERS 2022), during 24-26 Nov 2022, at SRTM University, Nanded.
5. **M. Prasad**, Y.Sudharshan Reddy, B. Suvarna, M. Ramakrishna Reddy and V. Sunitha. ***Application of Geospatial technology in evaluating the impact of Urbanisation on Agriculture.*** Presented in Madras University Post-Centenary Diamond Jubilee International Conference on Biodiversity and Sustainable Resource Management (ICBSRM – 2018) March 12-13, 2018. Center for Environmental Science, University of Madras, Chennai.
6. Y. Sudharshan Reddy, B. Suvarna **M. Prasad**, M. Ramakrishna Reddy and V Suniha. ***A preliminary investigation of hydrogeochemistry of groundwater in and around abandoned mines in the Southwestern part of Kadapa, Y.S.R. district.*** Presented in Madras University Post-Centenary Diamond Jubilee International Conference on Biodiversity and Sustainable Resource Management (ICBSRM – 2018) March 12-13, 2018. Center for Environmental Science, University of Madras, Chennai.
7. **M. Prasad**, T.Ramakrishna, Y.Sudarshan Reddy, B.Suvarna, M. Ramakrishna Reddy, V. Sunitha. ***Hydrogeologic factors affecting the sinkholes development in Yellanur Mandal, Anantapur District, Andhra Pradesh.*** Presented in International seminar on Earth Resources And Sustainability (ERAS-2018) during 19-20 Feb, 2018. School of Earth Sciences Central University of Karnataka.
8. **M. Prasad**, V. Sampath Kumar, Y.Sudarshan Reddy, B.Suvarna, M. Ramakrishna Reddy, V. Sunitha. ***Shoreline dynamics of Manneru River mouth, Prakasam district, Andhra Pradesh.*** Presented in International seminar on Earth Resources and Sustainability (ERAS-2018) during 19-20 Feb, 2018. School of Earth Sciences Central University of Karnataka.
9. Y.Sudharshan Reddy, B.Suvarna, **M. Prasad**, V.Sunitha, M.RamakrishnaReddy. ***A Preliminary Investigation of Environmental impact of abandoned mines in Southwestern Part of Cuddapah Basin.*** Presented in International seminar on Earth Resources And Sustainability (ERAS-2018) during 19-20 Feb, 2018. School of Earth Sciences Central University of Karnataka.
10. **M. Prasad**, B. Muralidhara Reddy, Y. Sudharshan Reddy, B. Suvarna, M. Ramakrishna Reddy and V. Sunitha. ***Application of Geospatial technology for Dam site suitability: A***

case study from Buggavanaka dam YSR District, Andhra Pradesh. Presented in Andhra Pradesh Science Congress 9-11, November, 2018. Yogi Vemana University, Kadapa.

11. V. Sunitha, Y. Sudharshan Reddy, **M.Prasad**, M. Raman Kumar and B. Srinivas. *Evaluation of groundwater for drinking purpose by water quality index in parts of Kadapa, YSR District, Andhra Pradesh, India.* Presented in National Seminar on Geo Resources Exploration & Exploitation Present Scenario and Evolving Trends GREEPSET-2018. 29-30 January 2018. Department of Applied Geochemistry, University College of Science, Osmania University, Hyderabad.
12. Y. Sudharshan Reddy, V.Sunitha,B. Suvarna, **M.Prasad**, and M. Ramakrishna Reddy. *Physicochemical characteristics of Abandoned Mine Sites in Southwestern Part of Cuddapah Basin.* Presented in National Seminar on Geo Resources Exploration & Exploitation Present Scenario and Evolving Trends GREEPSET-2018. 29-30 January, 2018. Department of Applied Geochemistry, University College of Science, Osmania University, Hyderabad.
13. **M. Prasad**, M.R.K Reddy and V.Sunitha. *Spatial Information Monitoring of Mangampeta Barytes Mine, A.P using GIS & Remote Sensing.* Presented in National Seminar on "NeoMulti Disciplinary studies on Cuddapah Basin 26-28 November, 2016 Loyola Degree College Pulivendula YSR Dt, AP.
14. Y.Sudarshan Reddy, B.Suvarna, **M. Prasad**, V.Sunitha, M.Ramakrishna Reddy. *Detecting Temporal changes in Penna River Estuary using Google Earth images.* Presented in National Seminar on "Neo Multi Disciplinary studies on Cuddapah Basin 26-28 November, 2016. Loyola Degree College Pulivendula YSR Dt, AP.
15. **M. Prasad**, Y. Sudharshan Reddy, B. Suvarna, M. Ramakrishna Reddy,V.Sunitha*Application of Google Earth Temporal Data For Sinkholes Detection: A Case Study From Part of Cuddapah Basin, South India.* Presented in Second Andhra Pradesh Science Congress -2016 7- 9, November,2016 P.B. Siddhartha College of Arts & Science, Moghalrajpuram, Vijayawada.
16. B. Suvarna, Y. Sudharshan Reddy, **M.Prasad**, V.Sunithaand M. Ramakrishna Reddy. *Heavy Mineral distribution of coastal sands along Ramakrishna beach to Bhimunnipatnam beach Andhra Pradesh, East Coast of India* presented in Second Andhra Pradesh Science Congress 7- 9, November, 2016 P.B. Siddhartha College of Arts & Science, Moghalrajpuram, Vijayawada.
17. Y.Sudarshan Reddy, B.Suvarna, **M.Prasad**, V.Sunitha, M.Ramakrishna Reddy. *Solid Waste Management of Limestone mining in southwestern part of Yerraguntla,YSR Kadapa District.* Presented in Second Andhra Pradesh Science Congress -2016 7- 9, November 2016 P.B. Siddhartha College of Arts & Science, Moghalrajpuram, Vijayawada.
18. **M. Prasad**,V.Sunitha and M.R.K Reddy. *Application of Remote Sensing &GIS for locating Groundwater Potential zones in and around Mangampeta Barites mine Area,*

Y.S.R Dt, A.P. Presented in First Andhra Pradesh Science Congress 27-29 Jan, 2016 S.V. University, Tirupati.

19. M. Prasad, V.Sunitha and M.R.K Reddy *Assessment of groundwater quality in Obulavaripalle Mandal of Kadapa District, A.P, India.* Presented in National Seminar on “Recent Trends in Geo-chemical, environmental aspects of the Mineralization in Kadapa Basin (RTGCEAM-2014) during 25-26 October, 2014. Loyola Degree College, Pulivendula, YSR Dt, AP

20. M. Prasad, K.Sunitha, V.Sunitha & M.R.K Reddy. *Geochemical analysis of Heavy metal in and around Thummalapalle uranium mining Area: An approach to Health impact Assessment.* Presented in National seminar on “Synergy of Geochemistry Geology, Geophysics towards Natural and Energy Resources Environment and Health” 14-15 Feb, 2013. Department of Geology, University of Pune & Indian Society of Applied Geochemist (ISAG), Hyderabad.

Membership of professional bodies:

- **Life Member** of Geological Society of India. M-0290
- **Life Member** of Indian Geological Congress, Roorkee.LM-989.
- **Life Member** of Indian Society of Remote Sensing, IIRS, Dehradun.L-5157.
- **Life Member** of Indian Association of hydrologists, NIH, Roorkee. L-1984.
- **Life Member** of Society for Environment and Development, India.L-2019/30.

Editor of Journal/Reviewer of Journal /Member of Academic Bodies/Advisor:

- **Editorial Member of Edwin Group of Journals**

Reviewer service

- Geo Journal (Springer)
- Modeling Earth Systems and Environment (Springer)
- Journal of Indian Geophysical Union(NGRI)

Workshops/ Seminars/Webinars attended:

- A Five Day National Workshop on “Recent Trends in Geosciences -2023 (RTGS -2023) 27.02.2023 to 03.03.2023 organized by Department of Geology, Yogi Vemana University, Kadapa, Andhra Pradesh.
- Organizing Committee Member of 37th National Science Day Celebrations CTUAP
- Organizing Committee Member, in the workshop capacity building & Personality development Program. CTUAP In association with National Women Commission

- Organizing Committee Member, Seven Days On-site Research Methodology Course for PhD students in Social Sciences. CTUAP in Association with ICSSR.

Offline/Online Certifications

Duration	Course / training programme
22-06- 2023 to 21-07-2023.	4 week Faculty Induction Program (FIP 35) conducted by Teaching Learning Centre (TLC), Ramanujan College, University of Delhi , organised under the aegis of Pandit Madan Mohan Malaviya National Mission on Teachers & Teaching (PMMMNTT), Ministry of Education
22-07-2022 to 24-07-2022	National Faculty Development Programme on Research Insights & Publication Strategies by Centre for Research & Training (CRT), National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu.
23-09-2019 to 28-09- 2019	AICTE Sponsored One week Short term training program (STTP) on Remote sensing and GIS applications in Civil Engineering Annamacharya Institute of Technology & Sciences, Tirupati (AITS-T), Tirupati.
26-11-2018 to 02-12-2018	6 th Course on Geological mapping of sedimentary terrains on Cuddapah Basin A.P by the Geological Society of India Training Institute (GSITI), Bandlaguda, Hyderabad
24-02-2016 to 24-03-2016	ISRO (NNRMS) Sponsored the 9th Course on the application of Geo-informatics for disaster management by the Geological Society of India Training Institute, Bandlaguda, Hyderabad
10-08-2015 to 27-11-2015	ISRO (NNRMS) Sponsored Off-Campus outreach certificate programme on Basic course on Remote sensing GIS and Global Navigation Satellite Systems by the Indian Institute of Remote Sensing, Dehradun, Dept of Space, Govt. of India
23-03-2013 to 26-03-2013	Ministry of Earth Sciences (MoES) Sponsored Short Term Course on Remote Sensing and GIS Applications in Earth Sciences by the Department of Geology, S.V. University, Tirupati

<u>Certificate courses completed from Karmayogi Portal</u>	
June 20, 2023	Understanding Motivation completed the course from IGOT Karmayogi bharat Prarambh module
June 20, 2023	Basics of Microsoft word for beginners completed the course from IGOT Karmayogi bharth Prarambh module
June 19, 2023.	Prevention of Sexual Harassment of Women at Workplace offered by Institute of Secretariat Training & Management(ISTM) & Wadhvani Foundation Production course through Karmayogi bharat Prarambh module
June 17, 2023.	Self Leadership offered by The Art of living through Karmayogi bharat Prarambh module
June 15, 2023.	Code of Conduct for Government Employees offered by Institute of Secretariat Training & Management(ISTM) through Karmayogi bharat Prarambh module