

Sunil B.M., Associate Professor

EDUCATION

Ph.D.	Civil Engineering	2009	NITK-Surathkal
M.Tech	Civil Engineering	2003	NITK-Surathkal
B.E.	Civil Engineering	2000	KREC-Surathkal

ACADEMIC POSITION

NITK-Surathkal, Department of Civil Engineering

Associate Professor	05/18 – present	(Geotechnical Engineering Section)
Assistant Professor	11/09 – 04/18	
Lecturer	11/06 – 11/09	
Research Associate	10/00 – 09/01	
Assistant Lecturer	01/04 – 06/04	

AREAS OF INTEREST

Ground Improvement Techniques
Environmental Geotechnology
Unsaturated Soil Mechanics
Rock Mechanics

HONORS AND ACHIEVEMENTS

- Technical committee member for assessing damage caused by MSW landfill at Mangalore-2019.
- Interaction with Faculty at overseas Institutions and Labs
- Lead contributor to environmental geotechnology course at NITK-S.
- Setup New Environmental Geotechnology Laboratory
- Played a leading role to start geoenvironmental research at NITK-S
- Chair, NITK-DBCE International Conference on Trending Moments & Steer Forces., Goa, 11/2019.
- Hon. Secretary of Institution of Engineers (India) - Mangalore local Centre (2016 to 2018).
- Joint Organizer, 10th International Symposium on Low Land Technology (10th ISLT), Mangalore, India, 09/2016.
- Reviewer recognition

PROFESSIONAL AND INSTITUTIONAL SERVICE

Department Coordinator of preparations for program accreditation review by NBA.

Faculty Advisor for Master's Students

Routine and Expert Consultancy Assignments undertaken by the Department.
Testing and consultancy projects relating to:

- Landfill design
- Contaminated soil investigation
- Ground Improvement Techniques
- Site exploration for construction of shallow and deep foundations,
- Slope stability analysis,

Manuscript review for International Journals 2007- present

Soil Research

Journal of Material Cycles and Waste Management (Springer)

Journal of Water and Health (IWA Publishing)

Journal of Advances in Environmental Research, South Korea

Journal of Environmental Informatics

Soils and Foundations

Journal of Engineering Geology (Elsevier)

Cements and Concrete Composites

Geotechnical and Geological Engineering (Springer)

External reviewer for Ph.D examinations, VTU Colleges

Resident Engineer - 9/ 2017 to 1/ 2019.

Faculty in-charge Estate and Works: 4/2011 to 4/ 2014.

Ph.D Guidance :

2 – completed

6 – ongoing

M.Tech Guidance:

Over 45

R&D Project works pertaining to ground water pollution

1. Use of granulated slag in Infrastructure and Construction Projects
2. Investigation of Ground Water Contamination due to Organic Compounds in D.K. and Udupi Districts", supported by the *Ministry of Human Resources and Development (MHRD)*
3. Groundwater Contamination and Heavy Metal Retention by Soils in the Solid Waste Disposal Area

SELECTED RECENT PUBLICATIONS

Anjali, M. S., Shrihari, S. and **Sunil, B. M. (2019)**. "Potential valorization of ferrous slag in the treatment of water and wastewater: A Review." *J. Advances in Environmental Research*,

Vol. 8, No. 1, 55-69. DOI: <https://doi.org/10.12989/aer.2019.8.1.055>. (Accepted Oct 11, 2019)

Anjali, M. S., Shrihari, S. and **Sunil, B. M. (2019)**. “Experimental studies of slag filter for drinking water treatment.” *J. Environmental Technology & Innovation*, Elsevier, Vol. 15 (2019) 100418 (Aug. 2019). <https://doi.org/10.1016/j.eti.2019.100418>

Sunil B.M., Manjunatha L.S., and Subhash C Yaragal (2017). Durability studies on concrete with partial replacement of cement and fine aggregates by fly ash and tailing material *Advances in Concrete Construction*, Vol. 5, No. 6 (2017) 671-683 DOI: <https://doi.org/10.12989/acc.2017.5.6.671>

Praveen and Sunil B.M., (2016). Potential Use of Waste Rubber Shreds in Drainage Layer of Landfills – An Experimental Study, *J. Advances in Environmental Research*, Vol. 4, No. 3 (2016) 188-199, DOI: <http://dx.doi.org/10.12989/aer.2015.4.3.197>

Sunil B.M., and A.V. Deepa (2016). “Influence of Drying Temperature on Three Soils Physical Properties” *Geotech Geol Eng* (2016) 34:777–788, DOI 10.1007/s10706-016-0001-2.

B.M. Sunil (2015). Review on performance of geosynthetic liners in municipal solid waste landfills, *Japanese Geotechnical Society Special Publication of The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, pp. 2368-2372; 2015

Sunil B.M., and Saifiya Faziludeen (2015). Removal of hexavalent chromium Cr(VI) by adsorption in blended lateritic soil, *J. Advances in Environmental Research*, Vol. 4, No. 3 (2015) 197-210, DOI: <http://dx.doi.org/10.12989/aer.2015.4.3.197>

Sunil B.M., Manjunatha L.S., Lolitha Ravi, Subhash C Yaragal (2015). Potential Use of Mine Tailings and Fly Ash in Concrete, *J. Advances in Concrete Construction*, Vol. 3, No. 1 (2015) 55-69, DOI: <http://dx.doi.org/10.12989/acc.2015.3.1.55>

Sitaram Nayak, **Sunil B.M.** and Allamaprabhu (2014). Assessment of blended lithomargic clay as landfill liner material, *Jr. of Current Advances in Civil Engineering*, Vol. 2 (4), Oct. 2014 pp 102-117, American V-King Scientific Publishing.

Manjunatha L.S., **Sunil B.M.** (2014). “ Geotechnical properties of mine tailings- A laboratory study, *International Journal of Advanced Structures and Geotechnical Engineering*, Vol.3 (2), 183-187, April 2014.

Sunil B.M., and Krishnappa H (2012). Effect of Drying on on the Index Properties of Lateritic Soils, *J. Geotech. and Geol. Eng*, Springer, 30(4): 869-879.

A.K. Prabhu, **Sunil B.M.**, and Nayak Sitaram, (2012). “Geotechnical characteristics of lithomargic clay blended with marine clay as landfill liner material”, *international Journal of Earth Sciences and Engineering*, Vol. 5, No.6 (01) pp 1803-1808 (Dec. 2012).

Sitaram Nayak, **Sunil B.M.**, Shrihari S. and P.V. Sivapullaiah (2010). “Interactions Between Soils and Laboratory Simulated Electrolyte Solution” *International Journal of Geotechnical and Geological Engineering*, Springer Netherlands. Vol.28, , pp.899-906, 2010; DOI 10.1007/s10706-010-9333-5.

Sunil B.M, Shrihari S. and Sitaram Nayak (2009). “Shear strength characteristics and chemical characteristics of leachate contaminated lateritic soil ”, Journal of Engineering Geology, Elsevier Publications Vol.106, No.1, pp.20-25, May 2009.

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