

## CURRICULAM VITAE



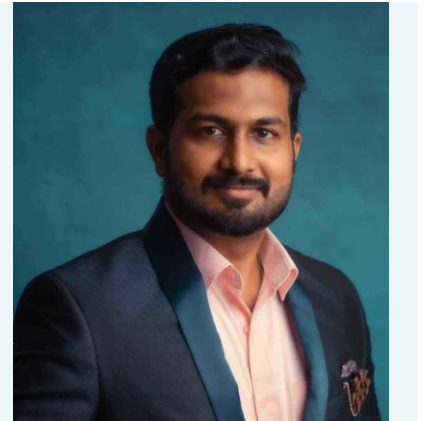
### Dr. RAVI SHANKAR. S

Scientist

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- AREAS OF INTEREST**
- **Transportation Geo techniques:** Cyclic response of soils, Pavement Geotechnics, Geosynthetic reinforced soils, Soil anchors, Stability of RE walls and Utilisation of marginal materials.
  - **Concrete pavements:** Performance Based Design and Construction of concrete pavements. Pavement Distress Mitigation. & Precast Pavements.

### EDUCATIONAL QUALIFICATION

Degree	Year of Passing	Board/ University/ Institution	Subject	Division
PhD	2023	IIT Madras	Geotechnical Engineering	I <sup>st</sup> Class
M.E	2014	Anna University	Transportation Engineering	I <sup>st</sup> Class
B.E	2012	TEC, Anna University.	Civil Engineering	I <sup>st</sup> Class

### PROFESSIONAL EXPERIENCE

Position	Name Of Organisation	From	To	Type of Work
Scientist 'C'	CSIR-CRRI	2017	Present	Research & Development
Project Officer	Civil Department-IIT Madras	2015	2017	Research
Assistant Professor	SRM University, Chennai	2014	2015	Research & Academics

### MEMBERSHIP TO PROFESSIONAL BODIES

- Life member of the Indian Road Congress.
- Life member of the Indian Geotechnical Society.
- Member of RILEM (International union of laboratories and experts in construction materials, systems and structures)

**HONOURS & AWARDS**

- Received **Gold Medal** (Late R. Thillainayagam Endowment Award) for securing the maximum marks in M.E. Transportation Engineering , Anna University – April 2014.
- Received **Gold Medal**, ( Prof.G.M. Andavan Award ) for Best & Innovative project Work in Transportation Engineering – June 2014.

**PROJECTS HANDLED**

Sl.No	Title	Sponsoring Agency
1.	Mitigation Measures for foreign object debris (FOD) on Rigid Pavement at VSI Airport, Port Blair. (PI)	Airport Authority of India (AAI)
2.	Proof checking of concrete pavement design of 4-lane concrete pavement with paved shoulder configuration for Bilaspur Pathirapali section of NH-111 (PI)	Adani Transport Limited
3.	Third-Party quality assurance/check for the construction of the concrete road in the temporary ash stock yard of the ash mound at NTPC, Dadri (Co-PI)	National Thermal Power Corporation, NTPC- Dadri
4.	Feasibility study of Foundry sand waste material for Road Construction.	The Institute of Indian Foundrymen, Kolkatta.
5.	Sustainable Road Pavements in High Altitude Regions Using Geosynthetics	G.B. Pant National Institute of Himalayan Environment & Sustainable Development
6.	Evaluation of IMS K100 as a chemically active admixture for cement concrete mixture	Infra Innovation Marketing Solutions, New Delhi
7.	Investigation of Distress and suggestion for repair and rehabilitation of rigid pavement from Kawardha to Singha section of NH-12A in Chhattisgarh.	PWD, Raipur, Chhattisgarh
8.	Design of Concrete Mix for M25, M30 and M35 grade for construction of 564 MLD Waste Water Treatment Plant	Delhi Jal Board
9.	Vetting of Rigid pavement/ Cement concrete road design for Village Road, Main Roads and Other Roads and providing specification of cement concrete road, Noida	Noida Authority
10.	Expert advice guidance and assessment of overall quality of Cement concrete roads of phase II roads in Nagpur city.	Nagpur Municipal Corporation
11.	Determination of Mix Proportions for Cement Concrete Mix Design for PQC, DLC, M30 (RCC)and M25(RCC)for Resurfacing of Runways and allied works at Airforce Station Purnea. Using two type of OPC	KCC Buildcon Private limited
12.	Optimization of rigid pavement design using micro silica in PQC mixes	Elkem South Asia Pvt Ltd, NAVI Mumbai

## PUBLICATIONS & CONFERENCES

### Journals

- **Ravishankar, S.**, Banerjee, S., Sarvesh, and Mukherjee, S. (2022). Static, cyclic and post-cyclic pull-out response of horizontal plate anchors in reinforced soft clay. *International Journal of Geosynthetics and Ground Engineering* , 8(37). <https://doi.org/10.1007/s40891-022-00381-3>
- Biradar, J., Banerjee, S., **Shankar, R.**, Ghosh, P., Mukherjee, S., and Fatahi, B. (2019). Response of square anchor plates embedded in reinforced soft clay subjected to cyclic loading. *Geomechanics and Engineering*, 17(2), 165-173. <http://doi.org/10.12989/gae.2019.17.2.165>

### Book Chapters

- **Ravishankar, S.**, Banerjee, S., and Sarvesh (2022). Experimental investigation on the effect of soil consistency on pullout behavior of plate anchors in reinforced clay. *Soil Behavior and Characterization of Geomaterials* (Vol. 296, pp. 247-256). *Lecture Notes in Civil Engineering*. Springer, Singapore. [https://doi.org/10.1007/978-981-19-6513-5\\_22](https://doi.org/10.1007/978-981-19-6513-5_22)
- **Ravishankar, S.**, Banerjee, S., and Biradar, J. (2021). Behavior of anchor plates in reinforced soft clay subjected to cyclic loading. *Lecture Notes in Civil Engineering*, Springer

### Technical Papers

- Sinha A K, **Shankar S**, Kumar B, and Havanagi V G (2020). Recycling of foundry sand waste material for the construction of concrete road, *Indian Highways-Indian Road Congress* (ISSN 0376-7256, Vol. No: 48 Issue No.: 08)
- Sinha A K, Vinoth M, **Shankar S**, and Havanagi V G (2020). Characterization of Foundry Sand Waste Material for Road Construction, *New Building Materials & Construction World (NBM&CW)*, New Delhi. (ISSN 0973-0591, Vol. 25(9), Issue 9, pp 74 – 85)
- Prasanna K , Anandh K S, **Ravishankar S** (2017). An experimental study on strengthening of concrete mixed with ground granulated blast furnace slag (GGBS), *ARPN Journal of Engineering and Applied Sciences*, Asian Research Publishing Network, Islamabad, Pakistan. (ISSN 1819-6608, Vol12 (8), Pg.No: 2439-2444)

### Papers in International & National Conferences

- **Ravishankar, S.**, and Banerjee, S. (2022). Influence of geosynthetic reinforcement on pull-out capacity of plate anchors embedded in undrained clay. *2022 GeoAsia7 Conference & IGS First Young Engineers Conference*, Taipei, Taiwan, October 2022.
- **Ravishankar, S.**, and Banerjee, S (2022). Three-dimensional numerical simulation of multi-plate helical anchor in sand. *Indian Symposium on Offshore Geotechnics -An International Convention- ISOG- 2022*, Chennai, India, December 2022

- **Ravishankar, S.**, Banerjee, S., and Sarvesh (2021). Experimental investigation on the effect of soil consistency on the pullout behavior of plate anchors in reinforced clay. Indian Geotechnical Conference 2021, Tiruchy, India, December 2021
- **Ravishankar, S.**, Banerjee, S., and Biradar, J. (2021). Behavior of anchor plates in reinforced soft clay subjected to cyclic loading. Eighth Indian Young Geotechnical Engineers Conference 2021, Chennai, India, October 2021.
- Sinha A K, Vinoth M, **Shankar S**, and Havanagi V G (2020). Coimbatore Foundry Sand Waste Material for Road Construction, Conference on Geoenvironment and Sustainability -2020, Indian Institute of Technology, New Delhi
- **Ravi Shankar S** (2019) Precast concrete pavements -Recent Trends and developments, International Seminar on “Construction and Rehabilitation of Rigid Pavement – Current practice and way forward”, Stein Hall, Indian Habitat Centre, New Delhi
- **Ravishankar S** (2019). Precast concrete pavements – a smart solution for Indian roads. Seminar on “Use of Innovative technologies & materials in construction”, Vigyan Bhavan, New Delhi.