

Curriculum Vitae

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EDUCATION

- **M.S. in Civil Engineering** July 2012
Indian Institute of Technology Madras (IITM), Chennai, India
Thesis title: “Influence of sustained moderately elevated temperatures on the engineering properties and microstructure of Prototype Fast Breeder Reactor vault concrete”
- **B.Tech in Civil Engineering** June 2007
Thangal Kunju Musaliar College of Engineering (TKMCE),
University of Kerala, Kerala, India

MEMBERSHIP IN PROFESSIONAL BODIES

- Student Member, RILEM (ID. No. 33231), the International Union of Laboratories and Experts in Construction Materials, Systems and Structures
- Member, RILEM Technical Committee, TC 277 LHS – Specifications for testing and evaluation of lime-based repair materials for historic structures (started in 2017)

RESEARCH INTERESTS

- Microstructural characterisation of building materials
- Evolving performance specifications for conservation of historic structures
- Characterisation and assessment of historic structures
- Supplementary cementing materials towards sustainable construction

PUBLICATIONS

Book

1. Sangeeta Bais, Manu Santhanam, **Divya Rani (2018)**, *Lime Manual for Conservation Works*, Published by *National Centre for Safety of Heritage Structures (NCSHS)*, Indian Institute of Technology Madras, Chennai, India, ISBN: 978-93-5300-526-9

Refereed Journals

1. K. Mohammed Haneefa, **S. Divya Rani**, R. Ramasamy and Manu Santhanam (2019), Microstructure and geochemistry of lime plaster mortar from a heritage structure, *Construction and Building Materials*, Vol 225, No 11, pp. 538-554
2. **S. Divya Rani**, Manu Santhanam and Sangeeta Bais (2019), Historic incised plasterwork of India-Characteristics and microstructure, *Construction and Building Materials*, Vol.221, No.10, pp. 253-262
3. **S. Divya Rani**, Manu Santhanam, V. Venkatachalapathy and C. Sivathanu Pillai (2013), Permissible temperature in fast breeder reactor vault concrete, *Indian Concrete Journal*, Vol. 87, No.2, pp. 19-28
4. **S. Divya Rani** and Manu Santhanam (2012), Influence of moderately elevated temperatures on engineering properties of concrete used for nuclear reactor vaults, *Cement and Concrete Composites*, Vol. 34, No.9, pp. 917-923

Full Papers Published in Conference Proceedings

1. **S. Divya Rani**, Thangadurai Raja, Sasidharan Thillai and Manu Santhanam (2019) Performance evaluation of ternary blended cements for masonry application, Proceedings of 16th NCB International Seminar on Cement and Building Materials, New Delhi, India.
2. **S. Divya Rani**, Mukil Prasath, Satvik Pratap singh, and Manu Santhanam (2019) Reactivity of clay minerals in historic lime binders, Proceedings of the 3rd International Conference on Calcined Clays for Sustainable Concrete, New Delhi, India, pp. 544-554.
3. **S. Divya Rani** and Manu Santhanam (2019) Characterisation techniques for lime-based materials – A case study of the Rajagopuram of Pundarikaksha temple in Tamil Nadu, India, Proceedings of 5th Historic Mortars Conference HMC 2019, Pamplona, Spain, pp. 544-554
4. D. Joseline, H. Haridasan, S. Rathnarajan, **D. Rani**, T. Raja, R. G. Pillai, A. K. Sengupta and A. Menon (2018) Restoration of reinforced lime concrete sunshades of a century old heritage building in New Delhi, India, Proceedings of the 11th International Conference on Structural Analysis of Historical Constructions SAHC 2018, Cusco, Peru, pp. 778-787
5. **S. Divya Rani** and Manu Santhanam (2017) Effect of aging on the microstructural characteristics of lime putty, Vol. 4, Proceedings of *International Conference on Advances in Construction Materials and Systems*, Chennai, pp. 615-620
6. **S. Divya Rani**, Sangeeta Bais, Manu Santhanam (2016) Characterisation of incised plaster works of historic monuments in Delhi, India, Proceedings of 4th Historic Mortars Conference HMC2016, Santorini, Greece, pp. 85-92
7. **S. Divya Rani**, Madhubanti Deb, Manu Santhanam, Ravindra Gettu (2015) Evaluation of repair mortar materials for old monuments in southern India, Proceedings of the 4th

International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICCRRR-4), Leipzig, Germany, pp. 631-635

8. **S. Divya Rani** and Manu Santhanam (2011), Influence of moderate temperatures on mechanical properties of FBR vault concrete, *Proceedings of the 21st International Conference on Structural Mechanics in Reactor Technology (SMiRT 2011)*, New Delhi, India, pp. 1670-1676,

Poster Presentations at Conferences/Symposiums

1. **S. Divya Rani** and Manu Santhanam (2019), Characterisation of historic mortars and evaluation of repair mortar materials, 5th Concrete Research in India (CRI) Symposium, Chennai, India.
2. **S. Divya Rani** and Manu Santhanam (2010), Permissible temperature in fast breeder reactor concrete, Presented in poster session at 3rd Asian Conference on Ecstasy in Concrete (ACECON-2010), Chennai, India.