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Department of Civil Engineering  
Government Engineering College Kozhikode

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PSC Advice Memo Details : No. RIC(1)19988/11/GW  
Appointment Order Details : No. EA4/41045/13/DTE

Membership in professional Bodies : EERI, ASCE, ACI, FIE, ISTE



#### **Professional Qualifications**

Degree	Specialization	Institute/ University	Year
Doctor of Philosophy (Ph. D)	Structural Engineering	Indian Institute of Technology Delhi	2017
Master of Technology (M. Tech)	Structural Engineering	Indian Institute of Technology Delhi	2011
Bachelor of Technology (B. Tech)	Civil Engineering	Government Engineering College Thrissur/ Calicut University	2008

#### **Areas of Academic and Research Interests**

Structural Engineering, Mechanics of Solids, Structural Analysis, Design of Steel Structures, Design of Reinforced Concrete Structures, Structural Dynamics, Earthquake/ Seismic Analysis and Design of Framed Structures, Finite Element Analysis, Advanced Mechanics of Solids, Analysis and Design of Pre-stressed Concrete Structures

Seismic Analysis and Design of Steel Framed Structures, Buckling Restrained Braced Frames, Metallic Yielding Dampers, Fragility Analysis of Structures under Seismic Loading, Performance Based Seismic Design of Structures

#### **Professional Experience**

- Guest Lecturer in Department of Civil Engineering, Government Engineering College Thrissur August 2008 to May 2009
- Assistant Professor in Department of Civil Engineering, Government Engineering College Kozhikode August 2018 onwards

#### **Responsibilities/ Position**

- Internal Examination Cell Member, Government Engineering College Kozhikode, Kerala, August 2018 onwards
- Center for Engineering Research and Development Member, Government Engineering College Kozhikode Kerala, August 2018 onwards

### Achievements and Awards

- GATE (Graduate Aptitude Test in Engineering) rank 49 in 2009.
  - Institute Scholarship for doing M Tech at IIT Delhi under MHRD, India in 2009.
  - Institute Scholarship for doing PhD at IIT Delhi under MHRD, India in 2011.
  - Institute Travel grant from IIT Delhi to Present Paper in International Conference (10PCEE) at Sydney, Australia in 2016.
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### List of Publications

#### **Books and Chapters**

**Pandikkadavath, M. S. and Sahoo, D. R., (2015), "Ductility Demand on Reduced-length Buckling restrained Braces in Braced Frames", Advances in Structural Engineering: Dynamics (Vol-III), Springer, pp. 2373-2384, ISBN: 978-813222187-6. (Ed.: V. Matsagar)**

#### **Peer Reviewed Journals**

- Pandikkadavath, M. S., and Sahoo, D. R. (2016), "Cyclic Testing of Short-Length Buckling-restrained Braces with Detachable Casings", Earthquakes and Structures, 10(3), 699-716.**
- Pandikkadavath, M. S., and Sahoo, D. R. (2016), "Ductility demand on short-length buckling restrained braces in concentrically braced frames", SERC Journal of Structural Engineering, 43(1), 48-57.**
- Pandikkadavath, M. S., and Sahoo, D. R. (2016), "Analytical Investigation on Cyclic Performance of Buckling-restrained Braces with Short Yielding Core Segments", International Journal of Steel Structures, 16(4), 1273-1285.**
- Pandikkadavath, M. S. and Sahoo, D. R. (2017). "Mitigation of drift response of concentrically braced frames using short yielding core BRBs", Steel and Composite Structures, 23(3), 285-302.**
- Pandikkadavath, M. S., and Sahoo, D. R., (2017), "Cyclic Testing on Hybrid Buckling-restrained Braces (HBRBs)", Ce/Papers, 1(2-3), 3200-3208.**

#### **Conference Proceedings**

- Pandikkadavath, M. S., and Sahoo, D. R., (2013), "Seismic Performance of Steel Frame Structures with Hybrid Concentrically Brace Systems", International Conference on Rehabilitation and Restoration of Structures, February 13-16, IIT Madras, India.**
- Pandikkadavath, M. S., and Sahoo, D. R., (2014), "Experimental Study on Reduced-length Buckling-restrained Braces under Slow-cyclic Loading", 10th National Conference on Earthquake Engineering (10NCEE), July 21-25, Anchorage, Alaska.**
- Pandikkadavath, M. S., Kumar, N., Sahoo, D. R. (2014), "Evaluation of Energy Parameters of Short Length Buckling-restrained Braces", 15th Symposium on Earthquake Engineering (15SEE), December 11-13, IIT Roorkee.**
- Pandikkadavath, M. S., and Sahoo, D. R. (2014), "Ductility Demand on Reduced-length Buckling-restrained Braced in Braced Frames", Structural Engineering Convention (SEC) 2014, December 22-24, IIT Delhi.**
- Pandikkadavath, M. S., and Sahoo, D. R. (2015), "Parametric Study on Hysteretic Behavior of BRBs with Varying Yielding Core Lengths", 8th International Symposium on Steel Structures (ISSS-2015), November 4-6, Jeju Island, Korea.**
- Pandikkadavath, M. S., and Sahoo, D. R. (2015), "Residual Drift Mitigation in Concentrically Braced Frames using Hybrid Braces", 10th Pacific Conference on Earthquake Engineering (10PCEE), November 6-8, Sydney, Australia.**
- Pandikkadavath, M. S., and Sahoo, D. R. (2017), "Cyclic Testing on Hybrid Buckling Restrained Braces (HBRBs)", 8th European Conference on Steel and Composite Structures (Eurosteel 2017), Copenhagen, Denmark.**
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