


Name	<b>Dr. P. Kamatchi</b>	
Designation	<b>Principal Scientist</b>	
Lab	<b>CSIR -STRUCTURAL ENGINEERING RESEARCH CENTRE</b>	
Areas of Interest	<b>Earthquake Engineering, Artificial Neural Networks, Site-specific analysis, Geotechnical earthquake Engineering, strong ground motion generation, Creep and Shrinkage of concrete/prestressed concrete structures, uncertainty modelling, Passive energy dissipater's, Tuned Mass Dampers.</b>	
Contact Details	<b>Email: <a href="mailto:kamat@serc.res.in">kamat@serc.res.in</a> Phone: 91-44-2254 9192</b>	

### Selected Publications (Past five years)

1. **Kamatchi, P.**, Dhayalini, B., Balaji Rao, K., Saibabu, S., Parivallal, S., Ravisankar, K. and Nagesh R. Iyer (2015) "Estimation of long-term prestress losses of box-girder bridge span using the prestress loss models in Indian and International codes of practices and comparison with field measurements", Indian Concrete Journal, Vol. 89(5), pp 59-68.
2. Shriti S. Badami, **P. Kamatchi** and Nagesh R Iyer, (2015) "Site-specific analyses of framed buildings located at deeper alluvial basin through 1d and 2d ground response analyses", Asian journal of civil engineering (building and housing), Vol. 16(2), pp 269-290.
3. **Kamatchi, P.** Ramana, G.V. Nagpal, A.K. Nagesh R Iyer and Bhat J. A. (2015) "ANN based methodology to determine dynamic to static eccentricity ratio of torsionally coupled buildings for site-specific earthquakes", Journal of Earthquake Engineering, Vol. 19(1), pp 107 – 136.
4. Merin Ross, **Kamatchi, P.**, Nagesh, R. Iyer, (2014) "Importance of Site-specific analyses for Steel Framed Buildings with Passive Energy Dissipators", Journal of Structural Engineering CSIR-SERC., Vol. 41 (4) , pp 307-319.
5. **Kamatchi, P.**, Balaji Rao, K., Dhayalini, B., Saibabu, S., Parivallal, S., Ravisankar, K., Nagesh R. Iyer, (2014) "Long-term prestress loss and camber of box girder bridge", ACI Structural Journal, Vol. 111(6), pp 1297-1306.
6. **Palaniyandi Kamatchi**, Gunturi Venkata Ramana, Ashok Kumar Nagpal, Nagesh R. Iyer, (2013) "Modelling propagation of stress waves through soil medium for ground response analysis", Engineering, Vol. 5, pp 611-621.
7. S. Arunachalam, **P. Kamatchi**, K. Rama Raju, M. B. Anoop, K. Balaji Rao, P. Harikrishna and Nagesh R. Iyer, (2013) "Methodology for deriving multihazard factors for design base shear of buildings for wind and earthquake hazard for peninsular India", Journal of Structural Engineering, Vol. 40, pp 333-343.
8. P. Devandiran, **P. Kamatchi**, K. Balaji Rao, K. Ravisankar and Nagesh R. Iyer, (2013) "Probabilistic analysis of spectral displacement by NSA and NDA", Earthquakes and Structures, Vol. 5(4), pp 439-459.
9. **Kamatchi, P.**, Balaji Rao, K., Nagesh R. Iyer, and Arunachalam. S. (2012) "Neural Network based methodology for inter-arrival times of earthquakes", Natural Hazards, Vol. 64, pp 1291-1303.
10. **Kamatchi, P.**, Balaji Rao K., Arunachalam S. and Nagesh R. Iyer, (2011). "Methodologies for vulnerability assessment of built- environment subjected to earthquakes", International Journal of Earth Sciences and Engineering, Vol. 4(6), pp 183-188.