

## LIST OF PUBLICATIONS

Name: **Dr.R. ILANGO VAN**

Designation: Professor

Department: Civil Engineering

Name of the Organization/Institution: University College of Engineering, Anna University

Place: Panruti

Pin code: 607106

Whether Affiliated to Anna University: Yes

Mobile: 9443393649

E-mail: ilango1968@gmail.com

Area of Specialization: Structural Engineering

Publication Upload:

### JOURNALS

#### International Journals:

1) Shanmuganathan D, and Ilangovan R, “ Experimental investigation on influence of aspect ratio of steel fibred in cement concrete”, International Journal of Advanced Engineering Research and Technology (IJAERT) Volume 4 Issue 5, May 2016, ISSN No.: 2348 – 8190

2) Kavipriya .S & .R.Ilangovan, “Response towards the influence of acid on modified geopolymer concrete” International Journal of Advanced Engineering Technology E-ISSN 0976-3945, Int J Adv Engg Tech/Vol. VII/Issue II/April-June,2016/193- 195

3) Kavipriya .S & R.Ilangovan, “Comparative Evaluation on the Mechanical Properties of Cement Concrete and GPC Incorporated with Polymeric Fibre” Asian Journal of Research in Social Sciences and Humanities Vol. 6, No. 8, August 2016, pp. 829-837.ISSN 2249-7315

4) B. Venkatesan, R. Ilangovan, P. Jayabalan, N. Mahendran, N. Sakthieswaran, “Finite Element Analysis (FEA) for the Beam-Column Joint Subjected to Cyclic Loading Was performed Using ANSYS” Circuits and Systems, , June 2016 , 7, 1581-1597 .

5) R.Ilangovan, K.Binith Muthukrishnan, M.Valan Rajkumar, and A.Velanganni Joseph, “Factors affecting Cost Performance due to Construction Delays in Projects at Dindigul and Madurai Districts”, European Academic Research Journal, ISSN 2286-4822, ISSN-L 2286-4822, Volume IV, Issue-II, Pages 971- 988, May 2016. Impact Factor: 3.4546 (UIF), DRJI Value: 5.9 (B+)

6) R.Ilangovan, K.Binith Muthukrishnan, M.Valan Rajkumar, and A.Velanganni Joseph, “A Study and Analysis of Delays in Construction Projects in Dindigul and Madurai District”, Tactful Management Research Journal, ISSN 2319-7935 (Print), ISSN 2319-7943 (Online), Volume IV, Issue-VIII, Pages 1-9, May 2016, Paper ID: 428. Impact Factor: 2.1632 (UIF)

## LIST OF PUBLICATIONS

- 7) M.Valan Rajkumar, T. Meharajan, and R.Ilangovan, “A Study on Occupational Stress among Teachers in Self Financing Engineering Colleges in Anna University-Region III”, European Academic Research Journal, ISSN 2286-4822, ISSN-L 2286-4822, Volume IV, Issue-I, Pages 868-889, April 2016. Impact Factor: 3.4546 (UIF), DRJI Value: 5.9 (B+)
- 8) M.Valan Rajkumar, T.Meharajan, and R.Ilangovan, “A Study on the Relationship between Job Satisfaction and Socio-Demographic Characteristics of Teaching Staff in Self Financing Engineering Colleges in Anna University-Region III”, International Journal of Multidisciplinary Research Review, ISSN 2395-1877 (Print), ISSN 2395-1885 (Online), Volume 1, Issue-4, Pages 31-38, April 2016. Impact Factor: 3.567
- 9) M.Valan Rajkumar, T.Meharajan, and R.Ilangovan, “A Study on the Relationship between Job Involvement and Demographic Characteristics of Teaching Staff in Self Financing Engineering Colleges in Anna University-Region III”, Indian Journal of Commerce & Management Studies, ISSN 2249-0310, EISSN 2229- 5674, Volume VII, Issue-2, Pages 49-55, May 2016. Impact Factor (GIF): 0.875
- 10) Viji, R., Rajesh Prasanna, P., and Ilangovan, R., “GIS Based SCS - CN Method For Estimating Runoff In Kundahpalam Watershed, Nilgiris District, Tamilnadu”, Earth Sci. Res. J. Vol. 19, No. 1, pp.59- 64, 2015.
- 11) Viji, R., Ilangovan, R., and Rajesh Prasanna, P., “Green-Ampt runoff model for the ungauged Kundahpallam watershed, Nilgiris, Western ghats of India”, Int. J. of Applied Engg. Research, ISSN. 0973-4562, Vol. 10, No.51, pp.35-45, 2015
- 12) Viji, R., Rajesh Prasanna, P., and Ilangovan, R., “Modified SCS-CN and GreenAmpt Methods in Surface Runoff Modelling for the Kundahpallam Watershed, Nilgiris, Western Ghats, India”, Aquatic Procedia, Vol.4, pp. 677 – 684, 2015.
- 13) Venkatachalapathy.V. and Ilangovan R (2015) An Experimental Investigation of the stresses Distribution In Reinforced concrete Deep Beams, International Journal of applied Engineering Research vol 10 no 5: pp 12825-12841, 2015.( Annexure 2)
- 14) Venkatachalapathy.V. and Ilangovan R (2015) Behaviour and Ultimate strength of reinforced concrete Deep beam with opening under Induced shear load. International Journal of Earth sciences vol 08 No 04 P.P.1927-1934, August 2015 .( Annexure 2)
- 15) Arumugam K and Ilangovan R (2014) Studies and strength and behavior of concrete using pond ash as fine aggregate, Research Journal of applied sciences, Engineering and Technology vol no (11): 2266-2270, March 2014. .( Annexure 2)
- 16) Arumugam K and Ilangovan R (2014) Effective Utilization of pond ash as fine aggregate in cement concrete under flexure , International Journal of Earth sciences vol 07 No 02 P.P.738-743, April 2014 .( Annexure 2)

## LIST OF PUBLICATIONS

17) Arumugam K and Ilangovan R (2014) Use of Bottom ash as fine aggregate on strength properties International Journal of pollution Research vol No 33( 1) P.P.61-64, April 2014 .( Annexure 2)

18) Meenakshi Sudarvizhi and Ilangovan R. S (2013) An Experimental investigation on Mechanical Properties of concrete using Industry waste, International Journal of Earth sciences vol 06 No 02(01) P.P. 118-122, April 2013 .( Annexure 2)

19) Venkatesan.B and Ilangovan R (2013) Structural performance of Beam column joints retrofitted with cementations laminates , International Journal of Earth sciences vol 06 No 02(01) April 2013.( Annexure 2)

20) Meenakshi Sudarvizhi and Ilangovan R. (2012) Utilization of Copper Slag and ferrous slag as partial replacement of fine aggregate in Cement Concrete. Journal of Structural Engineering, Vol.39, No.1. April –May 2012 pp 152-157. ( Annexure 1)

21) Venkatachalapathy.V. and Ilangovan R. (2012), ‘Experimental Evaluation for Strength of Steel Fibre Reinforced Concrete Deep Beams, IOSR Journal of Engineering (IOSRJEN) 2250:3021 Vol.2 Issue 2, February 2012, pp 348-355.

22) Arumugam K , James Manokar D and .Ilangovan.R (2011) A study on characterization and use of Pond Ash as fine aggregate in Concrete International Journal of Civil and Structural Engineering,1(3)pp466-474Code:EIJCSSE3038

23) Meenakshi Sudarvizhi and Ilangovan R. (2011) Performance of Copper slag and ferrous slag as partial replacement of sand in Concrete. International Journal of Civil and Structural Engineering,pp918-927Code:EIJCSSE2058,

24) Venkatachalapathy.V. and Ilangovan R. (2010) A Study on Steel Fiber Reinforced Concrete Deep Beams With and without Openings. International Journal of Civil and Structural Engineering, (3):509 – 517.

25) Raghunathan T and.Ilangovan. R (2010) Study on Strength of Concrete with ETP Sludge from Dyeing Industry. International Journal of Civil and Structural Engineering, 1(3): 379-389. .

26) Kala. P , Vimala. S and .Ilangovan.R (2010) Critical appraisal on steel water tank design using recent and past I.S. Codes. International Journal of Civil and Structural Engineering, 1(3): 390-403.

27) Jayasankar. R , Mahendran.N and Ilangovan. R, (2010) Studies on concrete using fly ash, rice husk and egg shell powder. International Journal of Civil and Structural Engineering, 1(3):362-372.integrated publishing services.

## **LIST OF PUBLICATIONS**

28) Ilangovan. R, Mahendran. N and Nagamani. K (2008), 'Strength and Durability properties of concrete containing quarry rock dust as fine aggregate', ARPN International Journal, Vol. 3, No.5, pp. 20-26

### **National Journals:**

1) Ilangovan. R and Mahendran.N. (2009), 'Effect of Non prismatic members in Frames – An Analytical study' Journal of the Indian national group of the International association for Bridge and Structural Engineering, The Bridge and Structural Engineer, Vol. 38, No. 4, pp. 9-23.

2) Ilangovan. R, Nagamani K and Gopal Samy P. (2007), 'Recycling of quarry waste as alternative Material in concrete manufacturing', Indian construction, Vol. 40, No. 2, pp. 7-12.

3) Ilangovan. R, Nagamani.K. and Ramamurthy K. (2007), 'Strength and durability studies on concrete by using quarry rock dust as fine aggregate', Journal of the Indian national group of the International association for Bridge and Structural Engineering, The Bridge and Structural Engineer, Vol. 37, No. 2, pp. 43-54

4) Ilangovan. R, Nagamani.K.and Kumarasamy.K. (2006), 'Studies on strength and behavior of concrete by using crusher rock dust as fine aggregate', Civil Engineering and Construction Review Journal, Vol.19, No. 10, pp. 40-42.

5) Ilangovan. R and Nagamani K. (2006), 'Application of quarry rock dust as fine aggregate in concrete construction', NICMAR - Journal of Construction Management Vol. XXI, No. IV, pp. 5-13.

### **International and national conference for the period 2006 to 2016**

1) Ilangovan, M.Valan Rajkumar, A.Velanganni joseph, "A Study on Causes and Effects of Delays in Construction Projects at Dindigul and Madurai Districts", International Conference on Promoting Entrepreneurship in Innovative Construction Techniques (PEICT'16) – Anna University Regional Campus Madurai-Entrepreneurship Development Cell & Dept. of Civil Engineering in association with Good Earth Nepal on October 2016, Paper ID: MG 02, ISBN No. 978-8-1930-2343-3 (Print), (Page):17-27.

2) Valan Rajkumar, R.Ilangovan, A.Velanganni joseph, "A Study on Job Involvement, Occupational Stress and Job Satisfaction among Teachers in Self-financing Engineering Colleges in Anna University-Madurai Region", International Conference on Promoting Entrepreneurship in Innovative Construction Techniques (PEICT'16) – Anna University Regional Campus Madurai-Entrepreneurship Development Cell & Dept. of Civil Engineering in association with Good Earth Nepal on October 2016, Paper ID: MG 25, ISBN No. 978-8-1930-2343-3 (Print), (Page):190-206.

## LIST OF PUBLICATIONS

- 3) Viji, R., Ilangovan, R., and Rajesh Prasanna, P., Green-ampt runoff model for the ungauged kundahpallam watershed, nilgiris, western ghats of india, International Conference on Advances in Materials and Mechanical Engineering, EGS Pillay Engineering college, Nagapatinum, ISBN No 9789384893231, 2015.
- 4) Viji, R., Rajesh Prasanna, P., and Ilangovan, R., “Modified SCS-CN and Green-Ampt Methods in Surface Runoff Modelling for the Kundahpallam Watershed, Nilgiris, Western Ghats, India”, Int. Conference on Water Resources, Coastal And Ocean Engineering, NIT, Suratkal, Karnataka, doi: 10.1016/j.aqpro.2015.02.087, 2015.
- 5) Vengatachalapathy and Ilangovan R and (2012) Experimental Evaluation of Shear Strength of Steel Fiber Reinforced Concrete Moderate Deep Beam with and without openings. International conference on Sustainability Challenges & Advances in Concrete Technology (SCACT 2012 – May 03&04), held at PSG College of Technology, Coimbatore 641 004.
- 6) Bharathi and Ilangovan R (2011) A case study on fly ash Based Geo Polymer Concrete - Two day national Conference on Recent Trends in Civil & Mechanical Engineering, Anna University of Technology, Tiruchirappalli – 620 024, PP 1 – 6 ( April 2011 )
- 7) Vengatachalapathy and Kayalvizhi and Ilangovan R, (20 11) Experimental study on Behavior of steel fiber Reinforced Deep Beams with fly ash ; Two day. national Conference on Recent Trends in Civil & Mechanical Engineering, Anna University of Technology, Tiruchirappalli – 620 024, PP 87 – 90 ( April 2011 )
- 8) Rajasekaran S and Ilangovan R and ( 2011 ) Feasibility study on Addition of Copper slag with cement in Ready Mixed Concrete, Two day national Conference on Recent Trends in Civil & Mechanical Engineering, Anna University of Technology, Tiruchirappalli – 620 024, PP 95 – 97 ( April 2011 )
- 9) Vasanthi and Ilangovan R ( 2011 ) Characteristics study of Copper slag and quarry dust as Cement Replacement in Concrete , National Conference on Engineering Approach for Sustainable Development ( STEPMAcc 11 ) , Anna University of Technology , Tiruchirappalli – 620 024. (September 2011).
- 10) M. Balaji and Ilangovan R and Durability Properties of Concrete incorporating Copper Slag and Quarry Dust Waste as Partial replacement of Cement and fine aggregate , National Conference on Engineering Approach for Sustainable Development ( STEPMAcc 11 ) , Anna University of Technology , Tiruchirappalli – 620 024. (September 2011).
- 11) Raja Arumuga Nainar and Ilangovan R and Experimental Analysis of Performance and Strength of Cement Concrete By using Manufactured Sand as fine Aggregate , National Conference on Engineering Approach for Sustainable Development ( STEPMAcc 11 ) , Anna University of Technology , Tiruchirappalli – 620 024. (September 2011).

## **LIST OF PUBLICATIONS**

- 12) Sarumathi and .Ilangovan R and, Flexural Strength of RCC Beams incorporating Copper Slag and Quarry Waste as Partial Replacement of Cement and fine Aggregate , National Conference on Engineering Approach for Sustainable Development ( STEPMAcc 11 ) , Anna University of Technology , Tiruchirappalli – 620 024. (September 2011).
- 13) Arumugam and Ilangovan R and, Study on Characterization and use of Pond ash as fine Aggregate in Concrete , National Conference on Engineering Approach for Sustainable Development ( STEPMAcc 11 ) , Anna University of Technology , Tiruchirappalli – 620 024. (September 2011).
- 14) Meenakshi Sudarvizhi and Ilangovan R and (2010) Utilization of Copper Slag and Ferrous Slag as Partial Replacement of Sand in Cement Concrete. The Seventh Structural Engineering Convention (SEC 2010) Annamalai University, Annamalai Nagar, Tamilnadu , India.
- 15) Arumugam, and R. Vengatasalabathy Ilangovan R, (2010)Feasibility Study on Characterization and use of Pond Ash as Fine Aggregate in Concrete Beams under Flexure. The Seventh Structural Engineering Convention (SEC 2010) Annamalai University, Annamalai Nagar, Tamilnadu , India.
- 16) Vengatachalapathy, K. Arumugam Ilangovan R (2010) Behavior of Steel Fiber Reinforced Concrete Deep Beams with and without Openings The Seventh Structural Engineering Convention (SEC 2010) Annamalai University, Annamalai Nagar, Tamilnadu , India.
- 17) Ilangovan R. Mahendren N and Nagamani K. (2008), ‘Usage of quarry fines (crusher Dust) in the place of River Sand for concrete works, Proceedings of the National Conference on Recent Advances in Structural Engineering” organized by Department of Civil Engineering, Anna University Trichy, pp. 66-71.
- 18) Ilangovan R. and Nagamani K. (2007), ‘Strength and durability properties of concrete containing quarry rock dust as fine aggregate’, Proceedings of the National seminar on Modern Trends in structural Design organized by Department of Civil Engineering, College of Engineering, Guindy, Anna University Chennai, pp. 26-34.
- 19) Ilangovan R., Nagamani K. and Ramamurthy K. (2006), ‘Studies on cement Mortar by using quarry rock dust as fine aggregate’, Proceedings of the National conference on High - Rise Buildings, Materials and practices organized by Indian society for construction materials and structures, Department of Civil Engineering, Indian Institute of Technology, Roorkee, India. October 30-31, pp. 157-162.
- 20) Ilangovan R., Nagamani K. and Gopalsamy P. (2006), ‘Recycling of quarry waste as an alternative material in concrete manufacturing’, Proceedings of National conference on High-Rise Buildings materials and practices, Organized by Indian Society for Construction Materials

## **LIST OF PUBLICATIONS**

and structures, Department of Civil Engineering, Indian Institute of Technology Rookee, India. October 30-31, 2006, pp. 145-155.

### **LIST OF PUBLICATIONS IN CONFERENCES 2000 -2005**

1. Vulnerability analysis of structures in Cyclone prone areas-An analytical model. Pro. Of International Seminar on Industrial structures, ACC (India) Coimbatore, January -2003.
2. Rehabilitation Measures of Buildings and Structures in Cyclone Prone Areas. An Analytical Model. Pro. Of National Conference-RACE 2004. Cochin University- March 2004.
3. Ground Water Degradation due to Tannery Waste Pro. Of National Conference Vellore Institute of Technology. January-2002
4. Cost Reduction Techniques in Mass housing by using Marginal material. Pro. Of national Seminar CES MIGG- 2002, Chennai-October 2002
5. Application of GIS & Remote sensing techniques to assessment of environmental degradation in Dindigul Pro. Of International Groundwater Conference-IGC 2002-February 2002.
6. Mix Design for Marginal materials Pro. Of International conference in Concrete Technology KCT, Coimbatore, Sep.2003.
7. Assessment of Environmental Degradation" Due to Tannery Waste in Dindigul District, Tamil Nadu. Pro.Of National Conference-RACE 2004. Cochin University -March 2004.
8. Modeling of Ground water Quality at Dindigul District, Tamilnadu Pro. Of National Conference on Environment Awareness & pollution Impacts, NIT (REC), Tiruchirapalli Nov 2004