INDIAN BUILDINGS CONGRESS

Mid Term Session & Seminar on Building Construction Technology for the New Millennium held on 22-23, Oct, 1999 at Chennai

CONTENTS

TECHNICAL SESSION – I & II : TECHNIQUES AND TECHNOLOGIES

- 1. Requisites of the Technology for the Next Millennium *V.S. Karandikar, P.D. Wani*
- 2. Ready Mixed Concrete for the Next Millennium *N. Rajamani*
- 3. New Detailing Concepts for Ductility Enhancement of Reinforced Concrete *N. Lakshmanan, B. Sivarama Sarma*
- 4. Bench Marking in Construction Industry A Srividhya, Bhimraja Metri
- 5. Composite Beam and Slab Techniques using Precast Prestressed Concrete Planks for a Cost Effective and Durable Construction *V.P. Sathyavaageiswaran, A.R. Santhakumar, N. Venkatramakrishnan*
- 6. Poured in-situ Cellular Light Weight Concrete Walling for Low Income Housing *G.B. Singh*
- 7. Trenchless Construction Methods an their Application to Municipal Works *N. Ravi*
- 8. Field Application for Cost-Effective Construction Materials and Techniques *N. Venkatramakrishnan, V. Ramachandran, P. Gopal*
- 9. Foundation Engineering for the Millennium *K.R.Saxena*
- Sharing Ancient Wisdom (Pyramid Roof at Barikpur, Orissa), A Message for New Millennium *P.K. PEU Das*
- 11. Cost Reduction Techniques in Construction Management *A. Veerappan*

- 12. Effect of High Strength Concrete and Non-Compatible Stress Steel on Durability of RC Structures *C.S. Suryawanshi*
- 13. Use of HPFRC in Hinged Zones of Continuous Beams *G.S. Thirugnanam, P. Govindan*
- 14. Hysteretic Response of Multistorey Brick Infilled RC Frame Uder Lateral Loads *C. Umarani, P. Govindan*
- 15. Prediction of Compressive Strength of Hardened Concrete and N.D.T. of Fresh Concrete by Electrical Resistance *S.A. Bhalchandra, A.H. Bhalchandra*
- 16. Brick Masonry Shells *M. Ferozkhan, K.P. Sathyamurthy*
- Improving Customer Satisfaction Through House of Quality in Bldg. Construction Industry A. Srividya, Bhimarayametri
- 18. Composite Steel Concrete Construction An Overview *V.K. Gupta, Others*
- 19. Provision of Sand Gravel Mix as Sub-base of Foundation for Poor Bearing Soils *A. Pragadeeswaran*
- 20. Opportunities for Equality and Full Participation of Disabled in Built Environment. Virendra Kr. Paul, P.R. Mehta, Mamata R. Singh
- 21. Lime Paddy Husk Cement Combine for Ground Improvement *R. Srinivasaraghavan, P.N.Raghunath, R. Baskar, K. Suguna*
- 22. Risk Management *Kirty Dave*
- 23. Need for Reconstruction of Buildings for Producers Net Working *Rajnish Prakash, Priyavrat Thareja*
- 24. Building Construction a Multi Disciplinary Activity *Rajnish Prakash*
- 25. Protective Coating for Steel Pipes in Corrosive Atmosphere *C.V. Porchelvi, Caroline Swaroopa, G.M. Samuel Knight*

TECHNICAL SESSION – III & IV : BUILDING MATERIALS

- 26. Advance Construction Materials for Performance Oriented Concrete Structures *K. Venkatachalam, N. Chandrasekaran, M.L. Soni, A.K. Sthapak*
- 27. Cement Types and their Applications Indian Scenario *A.K. Jain*
- 28. Hollow Concrete Blocks Masonry A Technology recently adopted by DDA *H.C. Gupta*
- 29. Quality System in testing laboratories for Building Materials and Technologies General requirements *K.R.S. Krishnan*
- 30. Use of Light Gauge Steel Members in Building Construction S. Senthil Selvan
- 31. Energy Efficient Slag Lime Bricks S.K. Malhotra, S.P. Tehri, C.L. Verma
- 32. Innovative Buildings Materials in Experimental Housing at RRL Bhopal *J. Prabakar & Others*
- 33. Buildings Materials and Architectural Vocabulary *K.K. Kapila, Prabhakar Begde*
- 34. Plastics Material for Construction for Next Millennium *Chetan Kumar Gautam*
- 35. Utilisation of HPC for Important Concrete Structures in the New Millennium *J. Bhattacharjee*
- 36. Applications for Polymer Concrete Composites for Civil Engineering Structures *K. Sukumaran*
- 37. Some Appropriate Building Construction Materials for the New Millennium in the context of Sustainable Growth *V. Verreyya*
- Fibre Reinforced Plastic (FRP) Composites and their Applications in Civil Engineering *R. Santhakumar, S. Senthil Selvan, S. Kannabiran*

- 39. Experimental Investigations on Corrosion Resistant Steel A New Millennium Bar for Reinforcing Concrete *T.S. Thandavamoorthy*
- 40. Quarry Fines as a Building Material D.L. Venkatesh Babu
- 41. Economic Consideration of Stabilised Soil Block P. Eswaramoorthy, E.K. Paneer Selvam, M. Kirubakar
- 42. Effect of Flyash on the Pore Size Distribution of Concrete *Rakesh Kumar, P.K. Sikdar*
- 43. Fibre Reinforced Concrete and Adaptive Structure *P. Nallathambi*
- 44. Building Materials *R.H. Tadvi, P.D. Aher*
- 45. Use of Recycled Aggregate in Development of Concrete M. Potha Raju, Gorantala Vasu Babu, S. Vijaya Kumar, S. Gopala Sastry, A.V.V. Chowdary

TECHNICAL SESSION -V : ENERGY AND ENVIRONMENTAL CONSIDERATIONS

- 46. Eco-Technology and Bio-Architecture for Sustainable Development *A.K. Jain*
- 47. Energy and Environment Considerations in the Buildings *S.S. Mann, S.K. Dixit*
- 48. Conservation of Electrical Energy & Material Saving in Multi-Storeyed Building *G. Srinivasan*
- 49. Environmental Management System for Buildings Projects *P. Krishnan, Virendra Kr. Paul, Mamata, R. Singh*
- 50. A Building's Energy Profile Jagadish Kumar Goel
- 51. Energy Efficient Management in Built Environment Deepak Narayan

- 52. Environmental Protection Requirements during construction of Major Development Projects *T. Kalyana Sundaram, S.A. Verma*
- 53. Energy Conservations and Building Construction *H.K. Munjal*
- 54. Eco-Friendly Technologies Only Solution for Sustainable Development *K. M. Soni*