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# Research Publications 2003-2008

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## Journal Papers

1. Nagesha, N., **Balachandra, P.**, and Bala Subrahmanya, M.H. (2008). “Analysis of Energy Consumption in Small Scale Industry Clusters: A Study of Textile Dyeing Industry in India”, Submitted to International Journal of Energy Sector Management, Emerald (Under review).
2. **Balachandra, P.** and Sudhakara Reddy, B. (2007) “Commercialization of Sustainable Technologies”, Submitted to *Energy Efficiency*, Springer. (Under review).
3. **Balachandra, P.** (2007). “A Multi-stakeholder based Framework for establishing Micro-Enterprises for Diffusion of Bioenergy Technologies”, Submitted to *Renewable Energy*, Elsevier Science.
4. **Balachandra, P.**, Usha Rao, K. and Ravindranath, N. H. (2007). “Biomass Energy Technology Transfer: Strategies for large-scale diffusion in India”, *Asia-Pacific Tech Monitor*, Vol. 24, No. 4, pp 16 - 28.
5. Sudhakara Reddy, B. and **Balachandra, P.** (2006) “Carbon Mitigation and Business Opportunities: The case of Household Sector in India”, *Energy for Sustainable Development*, The Journal of the International Energy Initiative, Vol. 10, No. 4, pp 36 - 50.
6. Nagesha, N. and **Balachandra, P.** (2006). “Prioritization of Barriers to Energy Efficiency in Small Industry Clusters: An Analytic Hierarchy Process Approach”, *Energy*, Vol. 31, No. 12, pp 1633 - 1647.
7. **Balachandra, P.** and Sudhakara Reddy, B. (2006). “Technology Portfolio Analysis for Residential Lighting”, Submitted to *International Journal of Energy Technology and Policy*, Inderscience Publishers.
8. **Balachandra, P.** (2006). “Implications of Private Sector Participation in Power Generation – A Case Study from India”, *Energy Policy*, Vol. 34, No. 16, pp 2466 - 2479.
9. Sudhakara Reddy, B. and **Balachandra, P.** (2006). “Dynamics of Technological Shifts in the Household Sector – Implications for Clean Development Mechanism”, *Energy Policy*, Vol. 34, No. 16, pp 2586 – 2599.
10. Bala Subrahmanya, M.H., **Balachandra, P.** and Mathirajan, M. (2004). “Technological Innovations in Small-scale Industries: Case Studies of Two Foundries in Karnataka”, *South Asian Journal of Management*, Vol. 11, No. 2, pp 111-120.
11. **Balachandra, P.**, Vijay Chandru and Bala Subrahmanya, M.H. (2003). “Electricity Demand Analysis – Unconstrained vs Constrained Scenarios”, *International Journal of Global Energy Issues*, Vol. 20, No. 1, pp 1-35.

12. Sudhakara Reddy, B. and **Balachandra, P.** (2003). "Integrated Energy-Environment-Policy Analysis – A Case Study of India", *Utilities Policy*, Vol. 11, No. 2, pp 59-73.
13. **Balachandra, P.** and Vijay Chandru. (2003). "Supply-Demand Matching in Resource Constrained Electricity Systems", *Energy Conversion and Management*, Vol. 44, No. 3, pp 411-437.
14. **Chanakya H.N**, Reddy BVV and Modak, J. (2009), Bio-methanation of herbaceous biomass residues using 3-zone plug flow like digesters – A case study from India.. *Renewable Energy* 34:416–420.
15. **Chanakya H.N** and Sharatchandra H.C. (2008). Nitrogen pool, flows, impact and sustainability issues of human waste management in the city of Bangalore. *CURRENT SCIENCE*, 94(11):1447-54.
16. **Chanakya H.N**, Ramachandra TV and Chamundeeswari M. (2007). Resource recovery potential from secondary components of segregated municipal solid wastes. *Environ Monit Assess* DOI 10.1007/s10661-007-9712-4.
17. **Chanakya H.N**, Ramachandra TV, Guruprasad M and Vinuta Devi, (2007). Micro-treatment options for components of organic fraction of MSW in residential areas. *Environ Monit Assess* DOI 10.1007/s10661-007-9711-5.
18. **Chanakya H.N**, Bhogle S and Arun R.S. (2005). Field experience with leaf litter-based biogas plants. *Energy for Sustainable Development*. IX (2):49-62.
19. **Chanakya H.N**, Rajabapaiah P and Modak J.M. (2004). Evolving biomass-based biogas plants: The ASTRA experience. *CURRENT SCIENCE*, VOL. 87(7):917-925.
20. **Chanakya H.N** and AAP de Alwis, (2004). Environmental Issues and Management in Primary Coffee Processing. IchemiE (part B). *Process safety and environmental protection* Part B **82(B4)**: 1-10.
21. **Dasappa, S.**, Paul, P.J., Mukunda, H.S., Rajan, N.K.S., Sridhar, G., and Sridhar, H.V.(2004). Biomass gasification technology – a route to meet energy needs, *Current Science*, Vol. 87, No.7 Oct 2004
22. **Dasappa, S.**, Sridhar, H.V., Sridhar, G., Paul, P. J., and Mukunda, H.S. (2003), "Biomass Gasification – a substitute to fossil fuel for heat application", *Biomass and Bio-energy*, 23, 2003.
23. **Durgappa, D.S.**, and Kanabur.V.V. (2008). Mitigation methods and fish diversity of Western Ghats in Karnataka. *Ecology* Vol III No.5, 650-656.
24. **Durgappa, D.S.**, and Kanabur, V.V. (2008). Biodiversity status of Karnataka rivers. *Ecology* Vol II No. 4, 342-348.
25. **Durgappa, D.S.**, and Kanabur, V.V. (2008). Human impacts and fish diversity in Western Ghats in Karnataka. *Ecology* Vol III No. 5, 778-782.

26. **Durgappa, D.S.**, Kanabur, V.V. and Aladakatti, R.H. (2007). Pattern of fish diversity in Western Ghats in Karnataka, *Bull. Envi. Sci* Vol III No. 4, 556-562.
27. **Durgappa, D.S.**, Kanabur, V.V. and Aladakatti, R.H. (2007). Fresh water fish migration and invasive species in Western Ghats in Karnataka, *Bull.Envi.Sci* Vol III No. 4 pp720-726.
28. **Durgappa, D.S.**, Ravindranath, N.H., and Aladakatti, R.H. (2007). Toxicity, bioaccumulation and metabolism of phenol in the freshwater fish *Oreochromis mossambicus*. *Journal of basic & clinical physiology & pharmacology* Vol 18 No.1 pp-65-77.
29. **Durgappa,D.S.**, Ravindranath, N.H., and Aladakatti, R.H. (2006). Effect of phenol on the metabolism and biochemical composition of the freshwater fish *Cyprinus carpio* *Journal of basic & clinical physiology & pharmacology* Vol 17 No. 4 Pp 255-258 2006.
30. Dharwadkar, S.N., **Durgappa, D.S.**, and Aladakatti, R.H. (2006). Effects of phenol on metabolism and biochemical composition of freshwater fish *Oreochromis mossambicus*. *Bull.Phy.Sci.*Vol II Pp 33-40 2006.
31. Dharwadkar, S.N., **Durgappa, D.S.**, D., Hippargi, S.M. and Rajamma. A.J. (2006). Acute toxicity and antagonism of arsenic trioxide and sodium selenite to *Cyprinus carpio* (common carp) *Bull.Env.Sci.*Vol I XIV (2<sup>nd</sup> issue) Pp 217-222, 2006.
32. **Durgappa, D.S.**, Dharwadkar, S.N., and Ravindranath, N.H. (2006). Metabolism, Uptake, and Elimination under the influence of phenol toxicity in freshwater fish *Lepidocephalichthys guntea*. *Bull.Envi.Sci.* Vol XXIV 215-224.
33. **Durgappa, D.S.**, Dharwadkar, S.N. and Ravindranath, N.H. (2006). Fish stock and diet and management of streams in hill stations of Western Ghats in Karnataka *Bull.Envi.Sci* Vol III No. 4 pp356-362.
34. **Durgappa, D.S.**, Dharwadkar, S.N., and Ravindranath, N.H. (2006). Fish diversity and conservation of Sharavathi stream, in Karnataka. *Bull.Phy.Sci* Vol II No. 4 pp226-331.
35. Avvannavar, S.M., **Mani, M.** (2008), A conceptual model of people's approach to sanitation. *Science of the Total Environment*, **390**(2008), pp. 1-12.
36. Varghese, K., Ganesh, L.S., **Mani, M.**, Anilkumar, P.P., Murthy, R., and Subramanian, B.R. (2008), Identifying critical variables for coastal profiling in ICZM planning – A systems approach. *Ocean & Coastal Management (Elsevier)*, 51(2008), pp. 73-94.
37. **Mani, M.**, Avvannavar, S.M., Venkatakrishnappa, D., Nanda Kumar, B.S. (2007), An assessment of potential health threats to international travelers attributed to varying global standards in packaged drinking water. *Environmental Engineering and Management Journal*, **6**(4), pp. 301-307.

38. **Mani, M.**, Varghese, K., and Ganesh, L.S. (2007), Sustainability Evaluation of an Urban Residential Settlement. *Environmental Engineering and Management Journal*, **6**(3), pp. 189-204.
39. **Mani, M.**, Varghese, K., and Ganesh, L.S. (2007), A Systemic Sustainability Evaluation Based on Water and Sanitary Conditions of Velachery Settlement in South-India. *International Journal of Sustainable Development and Planning*. **2**(4), pp.408-434.
40. **Mani, M.**, Varghese, K., and Ganesh, L.S. (2005), Integrated Model Framework to Simulate Sustainability of Human Settlements. *ASCE Journal of Urban Planning and Development*, **131**(3), pp. 147-158.
41. **Mani, M.**, Ganesh, L.S., and Varghese, K. (2005), Enhanced Futures System: Integrated Cross-Impact Analysis and Geographic Information Systems. *Futures Research Quarterly*, Fall 2005, pp. 19-45.
42. **Mani, M.**, Ganesh, L.S., and Varghese, K. (2005), Systems Thinking and Integrated Models in Human-Settlement Sustainability. *Nagarlok*, **37**(3), pp.1-12.
43. **Mani, M.**, Varghese, K., and Ganesh, L.S. (2004), Sustainability: A Rationale and its Implications to Human Settlements. *Nagarlok*, **36**(1), pp.45-51.
44. **Mani, M.**, Ganesh, L.S., and Varghese, K. (2003), A Futures System Integrating Cross-Impact Analysis and Geographic Information Systems. *Int. Journal of Futures Studies*, Vol. 5, [www.systems.org/HTML/fsj-v05/mani-title.htm](http://www.systems.org/HTML/fsj-v05/mani-title.htm) (May 2003).
45. D. Sivakumar and B.N. **Raghunandan**, "Formation and Separation of Merged Liquid Sheets Developed from the Mixing of Coaxial Swirling Liquid Sheets", *Phys. of Fluids*, **15** (11), pp 3443 – 3451, 2003
46. Ramamurthi K, Sarkar U.K., and **B N. Raghunandan** "Performance characteristics of effervescent atomizer in different flow regimes" *Jl. Atomization and Sprays*, Vol. 19, pp 41 – 56, 2009.
47. **Ramachandra T.V.** (2008), Geographical Information System Approach for Regional Biogas Potential Assessment, *Research Journal of Environmental Sciences*, **2**(3): 170-184.
48. **Ramachandra T.V.** (2007), RIEP: Regional Integrated Energy Plan, *Renewable and Sustainable Energy Reviews*, doi:10.1016/j.rser.2007.10.004.
49. **Ramachandra T.V.** (2007), Comparative assessment of techniques for bioresource monitoring using GIS and remote sensing, *The ICFAI Journal of Environmental Sciences*, **1**(2):7-47.
50. **Ramachandra T.V.** (2007). Geospatial Mapping of Bioenergy Potential in Karnataka, India. *Journal of Energy & Environment (JEE)*, **6**(1): 28-44.
51. **Ramachandra T.V.**, Sreekantha and Purnima G B., (2007), The Status of Bioenergy in the Sharavathi river basin, India. *Energy and Environment*, **18**(5): 591-613.

52. **Ramachandra T.V.** (2007), Solar energy potential assessment using GIS *Energy Education Science and Technology*, 18(2): 101-114.
53. **Ramachandra T.V.** and Shruthi B.V. (2007), Spatial mapping of renewable energy potential, *Renewable and Sustainable Energy Reviews*, 11(7):1460-1480.
54. **Ramachandra T.V.** and Shruthi Bachamanda, (2007), Environmental audit of Municipal Solid Waste Management, *Int. J. Environmental Technology and Management*, 7( 3/4): 369-391.
55. Sudhira H.S. and **Ramachandra T.V.** (2007), Managing urban sprawl for achieving sustainable urbanisation, *APNN Sustainable Development*, 1(4):3-5.
56. Sudhira H.S., **Ramachandra T.V.**, Bala Subramanya M.H. (2007), City Profile: Bangalore., *Cities* 124(4): 379-390.
57. Ahalya, N., Kanamadi R.D. and **Ramachandra T.V.** (2007), Cr(VI) and Fe(III) removal using Cajanus cajan husk, *Journal of Environment Biology*, 28(4): 765-769.
58. **Ramachandra T.V.** Yves Loerincik and Shruthi B.V. (2006), Intra and Inter Country Energy Intensity Trends, *International Journal of Energy and Development*, 31(1): 43-84.
59. **Ramachandra T.V.**, Vince George, Krishna Vamsee, Purnima G.B. (2006). Decision support system for regional electricity planning, *Energy Education Science and Technology*, 17(1):7-25.
60. **Ramachandra T.V.** and Uttam Kumar, (2006), Relevance of Hyperspectral Data for Sustainable Management of Natural Resources, *GIS and Development* 10(4):30-36 (India).
61. Ahalya N, Kanamadi R.D. and **Ramachandra, T.V.** (2006), Biosorption of iron (III) from aqueous solutions using the husk of Cicer arietinum, *Indian Journal of Chemical Technology*, 13 (March2006): 122-127.
62. Ahalya, N. and **Ramachandra, T.V.** (2006), Phytoremediation: *Processes and Mechansims*, *Journal of Ecobiology*, 18(1):33-38.
63. Ahalya N, Kanamadi R.D. and **Ramachandra, T.V.** (2006), Biosorption of chromium (VI) from aqueous solutions by the husk of Bengal gram (*Cicer arietinum*), *Electronic Journal of Biotechnology*, 8(3).
64. **Ramachandra T.V.**, Rajeev Kumar Jha, Vamsee Krishna and Shruthi B.V. (2005), Solar energy decision support system, *International Journal of Sustainable Energy*, 24(4): 207-224.
65. **Ramachandra T.V.**, Vamsee Krishna S. and Shruthi B.V. (2005), Decision support system for regional domestic energy planning, *Journal of Scientific and Industrial Research*, 64 (March 2005): 163-174.

66. **Ramachandra T.V.**, Rajeev K.J., Vamsee Krishna S and Shruthi B.V. (2005), WEPA: Wind energy potential assessment – spatial decision support system, *Energy Education Science and Technology*, 14(2):61-80.
67. **Ramachandra T.V.** and Shruthi B.V. (2005), Wind energy potential mapping in Karnataka using GIS, *Energy Conversion and Management*, 41(9-10):1561-1578.
68. Ahalya N, Kanmadi R D and **Ramachandra T V.** (2005), Biosorption of Chromium (VI) using Cicer arietinum husk. *Electronic journal of Biotechnology*, 8 (3). ISSN 0717-3458.
69. **Ramachandra T.V.**, Vamsee Krishna S and Shruthi B.V. (2004), Decision support system to assess regional biomass energy potential, *International Journal of Green Energy*, 1(4):1-22.
70. **Ramachandra T.V.** and Uttam Kumar, (2004), Watershed Management using GRDSS, GIS and Development 8(8):20-26 (India).
71. **Ramachandra T.V.**, Kamakshi G and Shruthi B.V. (2004), Bioresource status in Karnataka, *Renewable and Sustainable Energy Reviews*, Volume 8, Issue 1, February 2004, Pages 1-47.
72. **Ramachandra T.V.**, Rajeev Kumar Jha, Vamsee Krishna and Shruthi B.V.( 2004), Spatial Decision Support System for assessing Micro, Mini and Small hydel potential, *Journal of Applied Sciences* 4(4):596-604.
73. **Ramachandra T.V.** and Saira Varghese, K. (2004), Environmentally sound options for e-wastes management, *ENVIS Journal of Human Settlements* (ISSN 0971-9091), March 2004 (India).
74. **Ramachandra T.V.** and Shruthi B.V. (2003), Wind energy potential in Karnataka, *Wind Engineering*, Volume 27, Issue 6, pp 549-553.
75. **Ramachandra T.V.** and Saira Varghese K. (2003), Exploring possibilities of achieving sustainability in solid waste management, *Indian JI Environmental Health*, 45 (4):255-264.
76. H. S. Sudhira, **T. V. Ramachandra**, Karthik S. Raj, and K. S. Jagadish, (2003), Urban growth analyses using spatial and temporal data, *Indian Journal of Remote Sensing*, 31(4): Dec 2003.
77. H. S. Sudhira, **T. V. Ramachandra**, and K. S. Jagadish, (2003), Urban Sprawl – Metrics, Dynamics and Modeling using GIS, *international Journal of Applied Earth Observation and Geoinformation*, Issue 4.
78. Ahalya N., **Ramachandra T.V.** and Kanamadi R.D. (2003), Bio sorption of heavy metals, *Research Journal of Chemistry and Environment*, 7(4): 71-79.
79. **Ramachandra T.V.** and Raushan Kumar, (2003), Wastelands: Rehabilitation and management approaches, *LEISA-Low external input sustainable agriculture*, 5 (4):10-12.



80. **Rao, S. M.**, Raju, G. C., and Venkatarama Reddy, B. V. (2008). Compressive strength behavior of calcined gypsum sludge-sand specimens. *International Journal of Geotechnical Engineering* (in press).
81. **Rao, S. M.**, Venkatarama Reddy, B. V., Raju, G. C., Lakshmikanth, S. and. Ambika, N.S. (2008). Chemical stabilization of lead contaminated gypsum sludge. *International Journal of Geotechnical Engineering* (in press).
82. Raju, G. C., **Rao, S. M.** and Reddy, B. V. V. (2008). Remediation of lead contaminated gypsum sludge. Geo Congress 2008-Geotechnics of Waste Management and Remediation *ASCE Geotechnical Special Publication* (GSP 177), 563-570.
83. **Rao, S. M.**, Mamatha, P., Shantha, R. P. and Venkatarama Reddy, B.V. (2007), Encapsulation of fluoride sludge in stabilized mud blocks.” *Waste and Resource Management*, Vol. 160, 167-174.
84. Warith, M. A. and **Rao, S. M.** (2006), Predicting the compressibility behaviour of tire shred samples for landfill applications. *Waste Management*, Vol. 26, 268-276.
85. **Rao, S. M.** and Reddy B. V. V. (2006), Characterization of Kolar gold field mine tailings for cyanide and acid drainage. *Geotechnical and Geological Engineering*, Vol. 24, 1545-1559.
86. **Rao S. M.** and Shivananda, P. (2005), Impact of sulfate infiltration on swelling behaviour of lime-stabilized soils. *Journal of ASTM International* Vol. 2, 209-218.
87. Warith, M. A., Eugin, E., Benson, P. A. S. and **Rao, S. M.** (2005), Evaluation of permeability of tire shreds under vertical loading. *ASTM Journal of Testing and Evaluation*, Vol. 33, 51-54.
88. **Rao, S. M.** and Shivananda, P. (2005), Compressibility behaviour of lime-stabilized clay. *Geotechnical and Geological Engineering*, Vol. 23, 309-315.
89. **Rao, S. M.** and Shivananda, P. (2005), Role of curing temperature in progress of lime-soil reactions. *Geotechnical and Geological Engineering*, Vol. 23, 79-85.
90. Warith, M. A. and **Sudhakar M. Rao**, (2004). Estimation of maximum leachate head in tire shred drainage layer, *Advances in Geotechnical Engineering with Emphasis on Dam, ASCE Geotechnical Practice Publication* No. 1,167-176
91. **Rao, S. M.** and Thyagaraj, T. (2003), Lime slurry stabilization of an expansive soil. *Geotechnical Engineering, Institution of Civil Engineers* London, Vol. 156, 1-10.
92. **Ravindranath**, N.H., Rajiv Kumar Chaturvedi and Indu K Murthy. (2008), Forest conservation, Afforestation and reforestation in India: Implications for forest carbon stocks. *Current Science*, Vol. 95, No. 2.
93. **Ravindranath, N H**, (2007), Mitigation and Adaptation Synergy in Forest Sector, *Mitigation and Adaptation Strategies for Global Change* (In press).

94. Sudha, V. Ramprasad, M. D. V. Nagendra, H. D. Kulkarni and **N. H. Ravindranath**, (2007), Development of an Agroforestry Carbon Sequestration Project in Khammam District, India, *Mitigation and Adaptation Strategies for Global Change*.
95. Hirematha, B., S. Shikha, **N. H. Ravindranath**, (2007), Decentralized energy planning; modeling and application review REVIEW ARTICLE *Renewable and Sustainable Energy Reviews*, Volume 11, Issue 5, Pages 729-75.
96. Sudha, P., V. Ramprasad, P.R. Bhat, I.K. Murthy, R. Jagannatha Rao, G.T. Hedge, B.C. Nagaraja, C.M. Shastri, M.D.V. Nagendra, H. Khan, D.M. Shetty, G.N. Hegde, K.S. Murali and **N.H. Ravindranath**, (2006), Forest protection and regeneration under joint forest planning and management in Eastern Plains and Western Ghats of Karnataka, India, *Int. J. Environment and Sustainable Development*, Vol. 5, No. 1.
97. **Ravindranath**, N.H., K.S. Murali and P. Sudha, (2006), Community forestry initiatives in Southeast Asia: a review of ecological impacts, *Int. J. Environment and Sustainable Development*, Vol. 5, No. 1.
98. **Ravindranath**, N.H., N.V. Joshi, R. Sukumar and A. Saxena, (2006), Impact of climate change on forest in India, *Current Science*, Vol. 90 No. 3.
99. Jayanth Sathaye, P. R. Shukla and **N.H. Ravindranath**, (2006), Climate change, sustainable development and India: Global and national concerns, *Current Science*, Vol. 90 No. 3.
100. Murthy, I.K, G.T. Hegde, P. Sudha and **Ravindranath N.H**, (2006), Methodological issues in developing a community forestry mitigation project in Mancheril forest division of Andhra Pradesh, India, *Environmental Science and Policy*. Vol 9, Issue 6, 525-537.
101. **Ravindranath N H.**, Murthy I. K ., Sudha, P., Ramprasad V., Nagendra, M.D.V., Sahana, C.A., Khan, H. & Srivathsa, K.G, (2006), Methodological Issues In Forestry Mitigation Projects: A Case Study Of Kolar District, *Mitigation and Adaptation Strategies for Global Change*.
102. **Ravindranath**, N H., Murthy, I.K., Chaturvedi, R.K., Andrasko, K. & Sathaye, J.A, (2006), Carbon Forestry Economic Mitigation Potential In India By Land Classification, *Mitigation and Adaptation Strategies for Global Change*.
103. Sudha, P., Shubhashree, D., Khan, H., Hedge, G.T., Murthy, I.K., Shreedhara, **Ravindranath N.H**, (2006), Estimating Land Suitability and Development of Regional Baseline for a Dominant Agro-ecological Zone of Karnataka, India, *Mitigation and Adaptation Strategies for Global Change*.
104. **Ravindranath**, N.H., K.S. Murali and P. Sudha, (2006), Community forestry initiatives in Southeast Asia: a review of ecological impacts, *Int. J. Environment and Sustainable Development*, Vol. 5, No. 1.



105. **Ravindranath**, N.H., P. Balachandra, S. Dasappa and K. Usha Rao, (2006), Bioenergy technologies for carbon abatement, accepted for publication in “*Biomass and Bioenergy*” Volume 30, Issue, 10. Murali, K.S., D. M. Bhat and
106. **N. H. Ravindranath**, (2005), Biomass estimation equations for tropical deciduous and evergreen forests, *Int. J. Agricultural Resources, Governance and Ecology*, Vol. 4, No.1.
107. Bhat, D.M., K. S. Murali and **N. H. Ravindranath**, (2005), Herb layer productivity under different light gaps in the forests of Western Ghats of Karnataka, India, *Int. J. Agricultural Resources, Governance and Ecology*, Vol. 4, No.1.
108. Hegde, G.T., K. S. Murali, D. M. Bhat, P. R. Bhat and **N. H. Ravindranath**, (2005), Effect of protection on regeneration in some selected village forests under community protection in Uttara Kannada district, Karnataka, India, *Current Science*, Vol. 88, No. 5.
109. Murthy, K., P. R. Bhat, **N. H. Ravindranath** and R. Sukumar, (2005), Financial valuation of non-timber forest product flows in Uttara Kannada district, Western Ghats, Karnataka, *Current Science*, Vol.88, No. 10.
110. **Ravindranath**, N.H., H. I. Somashekar, M. S. Nagaraja, P. Sudha, G. Sangeetha, S. C. Bhattacharya and P. Abdul Salam, (2005), Assessment of sustainable non-plantation biomass resources potential for energy in India, *Biomass and Bioenergy*, 29, pp178-190.
111. Prabhakar R. Bhat, Indu K. Murthy and **N. H. Ravindranath**, (2005), Diversity of Non-Timber Forest Produce and Their Significance in Rural Area of Western Ghats, *Int. J. For. Usuf. Mngt.*, Vol. 6, No. 2, pp: 1-10.
112. Murthy I. K., Bhat D. M., Hegde G. T., Nagaraj B. C., Murali K. S., Sangeetha G., Bhat P. R., Shastri, C. M., Jagannatha Rao R. and **Ravindranath N. H.** (2005), Tree diversity and carbon sinks – role of village agro-ecosystems in the western ghats, India, *International Journal of Agricultural Sustainability*, Vol.3, No.2.
113. Rao, R.J., P. Sudha, B. C. Nagaraja, P. R. Bhat and **N. H. Ravindranath**, (2004), Status of Joint Forest Management (JFPM) in Karnataka: A decade experience, *My Forest*, September, Vol. 39, No. 3, pp 233-245.
114. Rao, R.J., P. Sudha and **N. H. Ravindranath**, (2004), Assessment of Status of Forest and Wasteland in Karnataka: Potential area for JFPM in the state, *My Forest*, Vol. 40, No. 2, pp. 185-196.
115. Rao, R.J., P. Sudha and **N. H. Ravindranath**, (2004), Strategies and Issues to evolve Monitoring and Evaluation to sustain Joint Forest Management in India, *Community Forestry*, Vol. 3, issue 4, pp 17-20.
116. **Ravindranath**, N.H., H. I. Somashekar, S. Dasappa and C. N. Jayasheela Reddy, (2004), Sustainable biomass power for rural India, Case study of biomass gasifier for village electrification, *Current Science*, Vol. 87, No. 7, pp 932-941.

117. Murali, K.S., R. J Rao, and **N. H. Ravindranath**. (2003), Institutional and Policy Issues of Participatory Forestry: Indian Experience, *Tropical Ecology*, Vol. 44, No. 1, pp 73-84.
118. **Ravindranath**, N.H., I. K. Murthy. (2003), Clean Development Mechanism and Forestry Projects: Strategy for operationalization in India, *The Indian Forester*, Vol. 129, No. 6, pp 691-706.
119. Bhat, D.M., K. S. Murali and **Ravindranath**, N.H. (2003), Carbon stock dynamics in the tropical rain forests of the Uttara Kannada district, Western Ghats, India, *International Journal of Environment and Pollution*, Vol. 19, No. 2, pp 139-149.
120. Murali, K.S., R. Jagannatha Rao, P. Sudha, G. Sangeetha, I. K Murthy and **Ravindranath**,N.H. (2003), Evaluation studies of Joint Forest Management in India: Social and institutional implications, *International Journal of Environment and Sustainable Development*, Vol. 2, No.1, pp 19-35.
121. Sudha, P., H. I. Somashekar, Sandhya Rao, **Ravindranath**,N.H. (2003), Sustainable Biomass production for energy in India, *Biomass and Bioenergy*, Vol. 25, Issue 5, pp 501-515.
122. **Ravindranath**, N.H., I. K. Murthy, P. Sudha, K. N. Geetha, G. Sangeetha, (2003), Assessment of Afforestation and Agro forestry as Potential CDM Activities in Semi-arid Tumkur District, India, *Journal of Environmental Studies and Policy*, Vol. 6, No. 1.
123. **Ravindranath**,N.H., I. K. Murthy, P. Sudha and C. A. Sahana, (2003), Clean Development Mechanism and Joint Forest Management Programme in India, *The Indian Forester*, Vol. 129 No. 7, pp 815-825.
124. Bhat, P.R., K. S. Murali, G. T. Hegde, C. M. Shastri, D. M. Bhat, Indu K. Murthy and **N. H. Ravindranath**, (2003), Annual variation in Non-timber forest product yield in the Western Ghats, Karnataka, India, *Current Science*, Vol. 85, No. 9, pp 1350–1355.
125. Bhattacharya, S.C., P. Abdul Salam, H. L. Pham, **N. H. Ravindranath**, (2003), Sustainable biomass production for energy in selected Asian countries, *Biomass and Bioenergy*, Vol. 25 pp 471-482.
126. **Venkatarama Reddy, B.V.**, Richardson Lal and Nanjunda Rao, K.S. (2007). Enhancing bond strength and characteristics of soil cement block masonry. *Journal of Materials in Civil Engineering, ASCE*, Vol. 19 (2), pp.164-172.
127. **Venkatarama Reddy, B.V.**, Richardson Lal and Nanjunda Rao, K.S. (2007). Optimum soil grading for the soil-cement blocks. *Journal of Materials in Civil Engineering, ASCE*, Vol. 19 (2), pp.164-172.
128. Gumasthe, K.S., Nanjunda Rao, K.S., **Venkatarama Reddy, B.V.** and Jagadish, K.S. (2007), Strength and elasticity of brick masonry prints and wallettes under compression, *Materials and structures*, Vol. 40 (296), pp.241-253.

129. **Venkatarama Reddy, B.V.** and Ajay Gupta, (2006). Strength and elastic properties of stabilized mud block masonry using cement soil mortars. *Journal of Materials in Civil Engineering, ASCE*, Vol. 18 (3), pp. 472-476.
130. **Venkatarama Reddy, B.V.** and Ajay Gupta, (2006). Tensile bond strength of soil cement block masonry couplets using cement-soil mortars, *Journal of Materials in Civil Engineering (ASCE)*. Vol. 18 (1), pp.36-45.
131. **Venkatarama Reddy, B.V.** (2004). Sustainable building technologies, *Current Science*, Vol.87 (7), pp.899-907.
132. Gumaste, K.S., **Venkatarama Reddy, B.V.**, Nanjunda Rao, K.S. and Jagadish, K.S. (2004). Properties of burnt bricks and mortars in India, *Masonry International*, Vol. 17, No.2, pp.45-52.
133. **Venkatarama Reddy, B.V.**,, Sudhakar M. Rao and Arun Kumar, M.K. (2003), Characteristics of stabilized mud blocks using Ash-Modified Soils, *The Indian Concrete Journal*, Vol. 77, No. 2, pp. 903 - 911.
134. **Venkatarama Reddy, B.V.**, and Jagadish, K.S. (2003), Embodied energy of common and alternative building technologies, *Energy and Buildings*, Vol. 35, pp. 129 - 137.

## Conference Papers

1. **Balachandra, P.** (2007). "IT Software and Services Sector: Where does India Stand? A Comparison with China and Europe", FASSBINDER Second International Workshop, 31 October 2007, Hotel Grand Ashok, Bangalore, India.
2. **Balachandra, P.**, Usha Rao, K., Dasappa, S. and Ravindranath, N. H. (2007). "Ranking of Barriers and Strategies for Promoting Bioenergy Technologies in India", Submitted to *Biomass and Bioenergy*, Elsevier Science. (Invited paper).
3. **Balachandra, P.** (2007). "Energy and Poverty Linkages in the Pacific Island Countries – Policy Implications for the Achievement of the MDGs", Sub-regional MDG-based Workshop for Melanesian Countries, 12-15 November 2007, Honiara Solomon Islands.
4. **Balachandra, P.** (2007). "India's IT Software and Services Sector – Linking the past Economic and Market Trends to the Future Vision", FASSBINDER First International Workshop, 06 September 2007, Beijing, China.
5. **Balachandra, P.** and Sudhakara Reddy, B. (2006). "Hydrogen Energy for Indian Transport Sector: A Well-to-Wheel Techno-Economic and Environmental Feasibility Analysis", The Ninth Biennial Conference of the International Society for Ecological Economics on "Ecological Sustainability and Human Well-being" New Delhi, India, December 15 – 18, 2006.
6. Nagesha, N., **Balachandra, P.** and Bala Subrahmanya, M.H. (2006). "Energy, Environment and Sustainable Development: An Empirical Study of Drivers Influencing Industrial Energy Efficiency", The Ninth Biennial Conference of the International Society for Ecological Economics on "Ecological Sustainability and Human Well-being" New Delhi, India, December 15 – 18, 2006.
7. **Balachandra, P.** (2005). "A Framework for Commercializing Sustainable Energy Technologies", Presented (as Poster) at the World Conference on Physics for Sustainable Development, Durban, South Africa, October 31 to November 2, 2005.
8. Nagesha, N. and **Balachandra, P.** (2005). "Air pollution associated with energy use in a Small Industry Cluster: Influential factors and Mitigation strategies", Presented at the International Conference on Environmental Management (ICEM 2005), Jawaharlal Nehru Technological University, Hyderabad, October 28-30, 2005.
9. Tanwar, N., **Balachandra, P.** (2005). "Energy Savings Potential in Buildings – A construction and Utilization Perspective", Accepted for presentation at "Action for Sustainability – The 2005 World Sustainable Building Conference", International Convention Center PAMIR, New Takanawa, Prince Hotel, Tokyo, Japan, September 27-29, 2005.
10. **Balachandra, P.** (2005). "A Business Approach to Sustainable Diffusion of Bioenergy Technologies", 5<sup>th</sup> Asia Pacific Conference on Sustainable Energy and Environmental Technologies (APCSEET), Massey University, New Zealand, May 9-11, 2005.

11. **Balachandra, P.**, (2003). “Sustainable Technology Diffusion: A Developing Country Perspective”, Presented at the Conference on “China – India’s Economic Co-operation and Development, under WTO Framework”, China Development Institute, Shenzhen, China, November 26 – 28, 2003.
12. **Balachandra, P.** (2003). “Implications of Private Sector Participation in Power Generation – A Case Study from India”, Presented at the International Conference on “Energy Market Reform: Issues and Problems”, Hong Kong Baptist University, Hong Kong, August 25 – 26, 2003.
13. Reddy, B.S. and **Balachandra, P.** (2003). “Dynamics of Technological Shifts in the Household Sector – Implications for Clean Development Mechanism”, Invited Paper presented at the International Conference on “Energy Market Reform: Issues and Problems”, Hong Kong Baptist University, Hong Kong, August 25 – 26, 2003.
14. Bala Subrahmanya, M.H., Mathirajan, M., **Balachandra, P.** (2003). “Assessing Technological Innovations, Intensity and its Contribution in Small Industry: Methodology and Results”, Paper presented at the International Conference on “Management of Research and Development” (ICMARD 2003), Indian Institute of Technology, New Delhi, January 10 – 11, 2003.
15. **Chanakya H.N.**, and Sharatchandra H.C. (2008). N-pool size, its reuse and sustainability issues of a developing country city-Bangalore. Agricultural N use and its environmental implication Eds Abrol, Raghuram and Sachdev. LK International, NewDelhi. 477-498.
16. **Chanakya H.N.** (2006). Biomethanation of distillery effluent in an increasingly methane-centric future. Proc. Seminar “Evaluation of performance and upgradation of biomethanation process in distilleries”, 19Dec2005, Hotel Harsha, Bangalore. Eds. Bagyaraj DJ, Balakrishna AN, Sreenivasamurthy CA and Bhaskar S. p 1-11.
17. **Chanakya,H.N.**, ST Somashekara Reddy and P Balachandra, (2005). Sustainability and food security articulations among resource poor farmers' groups in Tamil Nadu, South India. Proc. Indo-China Conference, Indira Gandhi Institute of Development Studies, Mumbai, 24-25<sup>th</sup>.
18. **Chanakya,H.N**, Modak JM and Reddy B.V.V. (2005). Biomass based biogas plants – an emerging area for India-China co-operation. Proc. Indo-China Conference, Indira Gandhi Institute of Development Studies, Mumbai, 24-25th February 2005.
19. **Chanakya,H.N.**, Reddy S.S.T. and **Balachandra, P.** (2005). “Food Consumption Patterns among Food Security Threatened Resource Poor Farmers' Groups in Tamilnadu ”, The fourth Biennial Conference of Indian Society for Ecological Economics (INSEE) on “Ecology and Human Well Being”, Indira Gandhi Institute of Development Research, Mumbai, 3-4 June, 2005.
20. **Chanakya,H.N.**, Ramamurthy, N, Shanmukhappa, V, Vinutha Devi and Deepa G.B. (2004). Biomass-Biofilm Bioreactors for Liquid and Solid Wastes of Agro-Processing

– Field Performance Studies. IIWT conference, CES, Ana Univ. Chennai, February 19-21, 2004 Chennai.

21. **Chanakya H.N.**, Ramamurthy, Deepa G B and Vinutha Devi, (2004). Bioreactor for Coffee Effluents Performance characteristics of 2 sites. Bioreactor for Coffee Effluents Performance characteristics of 2 sites.
22. **Chanakya H.N.**, Deepa GB, Vinutha Devi, Jayanth M Modak and BV Venkatarama Reddy, (2004). " Renewable Energy from Anaerobic Digestion of Biomass- Renewed Hopes, Emerging Trends and Future Areas". ICORE 2004, Bangalore.
23. **Chanakya H.N.**, and Rene Moletta, (2004). Emerging trends in small scale biogas plants for agro-residues and biomass feedstocks - a case study from India. Proceedings of International Symposium on Anaerobic Digestion (AD) 10, Montreal.
24. **Chanakya,H.N.**, Deepa G.B, Vinutha Devi, J.M Modak. (2004). Multifed biogas reactor for coffee waste water and biomass wastes - Performance under highly fluctuating operating conditions. Poster presented in the International Symposium on Anaerobic Digestion (AD) 10, Montreal.
25. **Chanakya,H.N** and Rene Moletta, (2004). Emerging trends in small scale biogas plants for agro-residues and biomass feedstocks - a case study from India., Proceedings of International Symposium on Anaerobic Digestion (AD) 10, Montreal.
26. **Chanakya H.N.**, Deepa G.B, Vinutha Devi, J.M. Modak, (2004). Multifed biogas reactor for coffee waste water and biomass wastes - Performance under highly fluctuating operating conditions. Poster presented in the International Symposium on Anaerobic Digestion (AD) 10, Montreal.
27. **Mani, M.**, and Dayal, A. (2008), An Unperceived Unsustainable Predicament - Zero-Energy to High-Energy Rural Habitation Transitions. *7<sup>th</sup> International Conference on Sustainable Energy Technologies 2008, Seoul, Korea, pp. 1490-1495.*
28. **Mani, M.** (2008), Reinforcing Sustainable Building Transitions in India. *Young Scientists Networking Conference on Sustainable Energy Technologies for Low Carbon Buildings*, British Council, New Delhi.
29. **Mani, M.**, Dayal, A., and Chattopadhyay, R.N. (2008), Sustainability Transitions' in Earthen Structures. *International Workshop on Role of Experiments in Sustainability Transitions in Asia, Chiang Mai.*
30. **Mani, M.**, Venkatarama Reddy, B. V., Sreenath, M., Lokabhiraman, S., and Anandrao, N. (2007), Design of a Climate-responsive BIPV research facility in Bangalore. *ISES Solar World Congress 2007 – Solar Energy and Human Settlements*, Beijing, pp. 356-360.
31. **Mani, M.**, Venkatarama Reddy, B.V., and Avvannavar, S.M. (2007), Design of a Modified Compact Septic-tank to Suit Coastal (island) Habitations with High Water table. *World Toilet Summit 2007*, New Delhi, pp. 73-78.



32. **Mani, M.**, Dayal, A., and Chattopadhyay, R.N. (2007), An Assessment into the Sustainability of Earthen Structures and Modern Transitions. *International Symposium on Earthen Structures*, Bangalore, pp. 154-166.
33. **Mani, M.** (2005), Energy in Buildings – Operation and Maintenance. *RENET Renewable Energy Workshop, November 2005, IISc, India*.
34. **Mani, M.**, Ganesh, L.S., and Varghese, K. (2005), Role of Systems Thinking and Integrated Models for Local Sustainable Development in Human Settlements. *Conference on Role of Technical Education in Sustainable Development*, Anna University, Chennai, India.
35. **Mani, M.**, Varghese, K., and Ganesh, L.S. (2003), A Simulation Study of an Urban Residential Settlement's Sustainability, Based on its Water Usage and Sanitation Practices. Invited article *World Habitat Day 2003: Water and Sanitation for Cities – Compendium of Articles*, UN-Habitat Information Office, Chennai, India, pp. 18-20.
36. Avinash K G., Diwakar P.G., Joshi N V and **Ramachandra T.V.**, (2008), Landslide susceptibility mapping in the downstream region of Sharavathi river basin, Central western Ghats, In Proceedings of the 24<sup>th</sup> Annual In-House Symposium on Space Science and Technology, 30-31<sup>st</sup> January 2008, Organised by ISRO-IISc Space Technology Cell, IISc, pp 135-140.
37. **Ramachandra T.V.** (2008), Renewable Energy potential in Karnataka: Spatial mapping and analysis, Chiba University 21<sup>st</sup> Century COE programme International Conference (International Workshop on Renewable Energy and Sustainable Zone, 29<sup>th</sup> March 2008, Chiba University, Japan.
38. Uttam Kumar, Norman Kerle and **Ramachandra T V**, (2007), Constrained linear spectral unmixing technique for regional land cover mapping using MODIS Data, <http://cisse2007.org/author/papers.aspx>; The Third International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS<sup>2</sup>E 07), December 3 - 12, 2007 (CISSE series of e-conferences), Technically Co-Sponsored by: Institute of Electrical & Electronics Engineers (IEEE), University of Bridgeport.
39. **Ramachandra T.V.** (2007), Watershed management using geospatial technologies, In the proceedings of the workshop GIS and its applications in Civil Engineering, Organised by Department of Civil Engineering, Kumaraguru College of Technology, Coimbatore, Pp 1-10.
40. **Ramachandra T.V.** (2006), Environment Education for Ecosystem Conservation, In Proceedings of Lake 2006: Symposium on Environment Education and Ecosystem Conservation.
41. **Ramachandra T.V.** (2006), The Need and Challenges for Conservation of Ecosystems, In the proceedings of National symposium on Issues and Challenges for Conservation of Plants and Ecosystem in India, 2-3<sup>rd</sup> November 2006, Organised by Department of Botany, North-Eastern Hill University, Shillong.

42. **Ramachandra T.V.** and Krishna Alluri, (2006), 'ODL Courses in Environmental Engineering for Professional Development', In the proceedings of International Workshop on e-learning for adult continuing education and extension, 15-17<sup>th</sup> Sept 2006, Organized by CUSAT, Cochin and Commonwealth of Learning.
43. **Ramachandra T.V.** (2006), Integrated planning of natural resources (keynote address), In Proceedings of National Seminar on Biological Sciences and it's impact on environment, 20-22 Jan 2006, Sri Jagadguru Renukacharya College of Arts, Science and Commerce, Bangalore University, pp(i-xx).
44. **Ramachandra T.V.** (2006), Integrated planning of water and land resources, In proceedings 'Sustainable Technologies for Environmental Protection', 7-9 January 2006., Organised by Coimbatore Institute of Technology, pp60-61.
45. Karthick B., Divakar K. Mesta and **Ramachandra T.V.** (2006), Influence of land-use changes on stream ecology, In proceedings 'Sustainable Technologies for Environmental Protection, 7-9 January 2006., Organised by Coimbatore Institute of Technology, pp120-126.
46. Ahalya N., Kanamadi R.D. and **Ramachandra T.V.** (2006), Biosorption: Viable bioremediation options for restoration of wetlands, In proceedings 'Sustainable Technologies for Environmental Protection, 7-9 January 2006., Organised by Coimbatore Institute of Technology, pp51-54.
47. **Ramachandra T. V.** (2005), Status of Wetland Ecosystems in India (Focus on Wetlands of Bangalore, Karnataka), In TEQIP Workshop on Wetland Management, November 28, 2005. Department of Civil Engineering, Bangalore University, Pp36-55.
48. **Ramachandra T.V.** (2005), Remote sensing and GIS Application in Hydrology, In Proceedings of the IVth DST-SERC School on Mathematical Modelling of Groundwater Quality and Pollution, 2-30 May 2005, Department of Mathematics, Bangalore University.
49. **Ramachandra T.V.** (2004). Hydrology, Ecology and Land Cover Linkages, In proceedings: National workshop on "Water reuse and recycling for sustainability", 4<sup>th</sup> Dec 2004, Organised by Anjuman Engineering College for men, Bhatkal.
50. **Ramachandra T.V.** (2004), Environmental monitoring using spatial and temporal tools, In proceedings: ITP in environmental monitoring, 1-11, June 2004, Organized by Periyar centre for environment and energy management, Periyar Maniammai College of Technology for Women, Vallam, Thanjavur.
51. **Ramachandra T.V.** (2004), Aquatic ecosystema – Ecological impacts due to developmental projects, In Proceedings: Lake 2004 – International symposium Conservation, Restoration and Management of Aquatic Ecosystems, 9-13<sup>th</sup> Dec 2004, organized by Berhampur University, Orissa.
52. **Ramachandra T.V.** and Uttam Kumar, (2004), Geographic resources decision support system for land use land cover dynamics analysis, FOSS/GRASS 2004

Conference, 12-14 sept 2004, Bangkok, Thailand [http://gisws.media.osaka-cu.ac.jp/grass04/papers.php?first\\_letter](http://gisws.media.osaka-cu.ac.jp/grass04/papers.php?first_letter).

53. **Ramachandra T.V.**, Rajasekara Murthy, C., Krishna Alluri and Krishna Pillai Murugan, (2004), Capacity Building through Distance Education: Environmental Engineering Courses Fourth Pan-Commonwealth Forum on Open Learning (PCF4), 4-8<sup>th</sup> July 2004, New Zealand.
54. **Ramachandra T.V.**, Ahalya N. and Kanamadi R.D., (2004), Wetland Restoration through Metal Bioremediation, July 2004, UTRECHT 2004: INTECOL 7<sup>th</sup> International Wetlands Conference.
55. **Ramachandra T.V.** (2003), Ecological impacts of river valley projects: assessment using remote sensing, In proceedings: National workshop on Interlinking of Rivers, 04-06, Dec 2003, Organised by Faculty of Engineering – Civil, Bangalore University.
56. **Ramachandra T.V.** (2003), Satellite information for rural needs, In Proceedings: Rural Technology, A 25 years Retrospective, Volume II. ASTRA, IISc.
57. **Ravindranath, N. H.** and Balachandra, P., (2007). “Sustainable Bioenergy for India; technical, economic and policy analysis”, Submitted to *Energy-The International Journal*, Elsevier Science. (Invited paper).

## Books

1. Mongia, N., Ramani, K.V., Velumail, T., Dhungana, B., **Balachandra, P.** (2007). Sooksiri Chamsuk, S. and Jensen, T., “*Overcoming Vulnerability to Rising Oil Prices: Options for Asia and the Pacific*”, UNDP Regional Centre, Bangkok, Bangkok, ISBN 978-92-1-126213-1
2. Sudhakara Reddy, B. and **Balachandra, P.** (2005). “Energy, Environment and Development – A Technology Perspective (Selected works of Prof. Amulya K. N. Reddy)”, Narosa Publishers: New Delhi, October 2005, ISBN 81-7319-747-4.
3. **Balachandra, P.** (2003). “An Introduction to Data Envelopment Analysis – A Tool for Performance Measurement, R. Ramanathan. Sage Publications India Pvt. Ltd., New Delhi, 2003, pp. 201, Price: Rs. 250. ISBN: 81-7829-261-0”, *Current Science*, Vol. 86, No. 2, 2004.
4. **Mani, M.**, Ganesh, L.S., and Varghese, K. (2005), *Sustainability and Human Settlements*. Sage Publications, New Delhi, Thousand Oaks, London.
5. H.N. Chanakya and **B.N. Raghunandan** (Ed), ‘Rural Technology – A 25 Years Retrospective’, Indian Institute of Science, 2004.
6. Ramachandra T.V. (2008), Environment Education for Ecosystem Conservation, Capital Publishing Company, New Delhi.
7. Ramachandra T.V., Subash Chandran M D., Gururaja K V and Ramachandra T V. (2007), Cumulative Environmental Impact Assessment, Nova Science Publishers, New York.
8. Ramachandra T.V. (2006), Management of Municipal Solid Waste, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by Capital Publishing Company, New Delhi.
9. Ramachandra T.V. (2006), Soil and Groundwater Pollution from Agricultural Activities, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by Capital Publishing Company, New Delhi.
10. Vijay Kulkarni and Ramachandra T.V. (2006), Environmental Management, Commonwealth Of Learning, Canada and Indian Institute of Science, Bangalore, Printed by Capital Publishing Company, New Delhi.
11. Ramachandra T.V., Ahalya N. and Rajasekara Murthy, (2005), Aquatic Ecosystems: Conservation, Restoration and Management, Capital Publishing Company, New Delhi.
12. Ramachandra T.V. and Ahalya N. (2004), Wetland ecosystem in India: Conservation and Management, Monograph- DEF Environmental Research Update, Journal of Environmental Biology.
13. Ramachandra, T.V. (2003), Ecologically Sound Integrated Regional Energy Planning, Nova Science Publishers, Huntington, NY 11743-6907.

14. Sudhira H.S., Ramachandra T.V. and Jagadish K.S. (2003), Urban Sprawl Pattern analysis using GIS, Aicra Publishers, Bangalore.
15. Rao, S., Mani, M., and Ravindranath, N.H. (2008), *Advances in Water Quality and Management*. Research Publishing, Singapore.
16. Ravindranth, N.H. and Madelene Ostwald, (2008), Carbon Inventory Methods, Springer.
17. Ravindranath, N.H., and P. Sudha, (2004), Joint Forest Management in India, spread, performance and impact. , *Universities Press* (India) Pvt. Ltd, Hyderabad.
18. Shukla,P.R., Subodh K. Sharma,N. H. Ravindranath, Amit Garg and Sumana Bhattacharya, (2003), Climate change and India Vulnerability Assessment and Adaptation , *Universities Press* (India) Pvt. Ltd,Hyderabad.
19. Bhat,D.M., Vidya S. Swamy and N. H. Ravindranath, (2003), Nursery Manual for Forest Tree Species, *Universities Press*.
20. Venkatarama Reddy, B.V., and Mani, M.(2007), *International Symposium on Earthen Structures*. Interline Publishing, Bangalore.
21. Jagadish, K.S., Venkatarama Reddy, B.V. and Najunda Rao, K.S. (2006). Alternative Building Materials and Technologies, New Age International (P) Limited, Publishers, New Delhi.

## Chapters in Edited Books

1. **Chanakya, H.N.**, Karthick B. And Ramachandra T.V. (2008), Nitrogen and carbon flows through Belandur lake – Role of Bellandur lake as a natural wetland treating Bangalore wastewater, In Environment Education for Ecosystem Conservation, Ramachandra (ed.), Capital publishing company, New Delhi, Pp25-32.
2. **Chanakya, H.N.**, Reddy S.S.T. and Balachandra, P. (2006). “Food Consumption Patterns among Food Security Threatened Resource Poor Farmers' Groups in Tamilnadu”, in “Ecology and Human Wellbeing”, Ed.: Pushpam Kumar and Reddy, B.S., Sage Publishers, New Delhi, 2006.
3. Bala Subrahmanya, M.H. and **Balachandra, P.** (2003). “An Exploratory Study of Environmental Pollution in Small Industry Clusters”, in “Reconciling Environment and Economics: Executive Summaries of EERC Projects”, Ed.: Jyoti K. Parikh, Environmental Economics Research Committee (EERC), Indira Gandhi Institute of Development Research, Mumbai, India, July 2003, pp 201-207.
4. **Mani, M., Suganya, L.** (2008) Water and Sanitation in Human Settlements. pp. 59-86. In Rao, S., Mani, M., and Ravindranath, N.H. (ed.) *Advances in Water Quality and Management*. Research Publishing, Singapore.
5. **Mani, M.**, Vibha Rao, Deshpande, S. (2008) Rooftop Rainwater Harvesting. pp. 279-291. In Rao, S., Mani, M., and Ravindranath, N.H. (ed.) *Advances in Water Quality and Management*. Research Publishing, Singapore.
6. **Ramachandra T.V.** (2008), Environment Education for Ecosystem Conservation, In Environment Education for Ecosystem Conservation, Ramachandra (ed.), Capital publishing company, New Delhi, Pp1-13.
7. Gururaja K.V., Sameer Ali and **Ramachandra T.V.** (2008), Influence of land use changes in river basins on diversity and distribution of amphibians, In Environment Education for Ecosystem Conservation, Ramachandra (ed.), Capital publishing company, New Delhi, Pp 33-42.
8. Sameer Ali, Subhash Chandran, M.D. and **Ramachandra T.V.** (2008), Faunal assemblages in Myristica swamps of central Western Ghats, Karnataka, India, In Environment Education for Ecosystem Conservation, Ramachandra (ed.), Capital publishing company, New Delhi, Pp 94-112.
9. Rao G.R., Diwakar K. Mesta, Subhash Chandran, M.D. and **Ramachandra T.V.** (2008), Wetland flora of Uttara Kannada, In Environment Education for Ecosystem Conservation, Ramachandra (ed.), Capital publishing company, New Delhi, Pp 152-159.
10. **Ramachandra T.V.**, (2007), Groundwater Management in India: Physical, Institutional and Policy Alternatives. M. Dinesh Kumar (ed.). SAGE Publications India Pvt Ltd, New Delhi 110 044. 2007. 354 pp. Current Science, Vol. 93, N0. 9, 10 NOVEMBER 2007, 1312-1313.



11. Sudhira H.S and **Ramachandra T.V.**, (2006), Administrative Reforms: Towards Sustainable Practices (Amita Singh), Sage Publications India Pvt. Ltd. (2003), Current Science, 90 (5): 727-728.
12. **Ramachandra T.V.** and Suja A. (2006), Sahyadri: Western Ghats Biodiversity Information System, In Biodiversity in Indian Scenarios, Ramakrishnan, N. (Ed), Daya Publishing House, New Delhi. Pp 1-22.
13. **Ramachandra T.V.** and Nagarathna A.V., (2005), Understanding Environment (Mamatha Pandya and Meena Raghunathan, Sage Publications India Pvt Ltd, New Delhi (2004), Current Science, 89 (1): 206-207.
14. **Ramachandra T V** and Rao G.R. (2005), Inventorying, Mapping and Monitoring of Bioresources using GIS and Remote Sensing, In *Geospatial technologies for developmental planning*, Ramaswamy S M, Kumanan C J, Palanivel K and Bhoop Singh (eds), pp 49-76.
15. **Ramachandra T.V.** (2005), Conservation, Restoration and Management of Aquatic Ecosystems, In *Aquatic Ecosystems – Conservation, Restoration and Management*, Ramachandra, Ahalya N. and Rajasekara Murthy (ed), Capital Publishing Company, New Delhi.
16. Raushan Kumar and **Ramachandra T.V.** (2005), Water, soil and sediment investigations to explore the status and management options of aquatic ecosystems, In *Aquatic Ecosystems – Conservation, Restoration and Management*, Ramachandra, Ahalya N. and Rajasekara Murthy (ed), Capital Publishing Company, New Delhi.
17. Prasad S.N., Sengupta T., Alok Kumar, Vijayan V.s., Lalita Vijayan, **Ramachandra T.V.**, Ahalya N. and Tiwari A.K. (2004), Wetlands of India, In: *National Aquatic Ecosystems of India – Thematic Biodiversity Strategy and Action Plan*, Venkataraman K. (ed), Zoological Survey of India.
18. **Ramachandra T.V.** and Nagarathna A.V. (2003), Eco-degradation, Biodiversity and Health, (Pandey B.N), Daya Publishing House, Delhi (2002), Current Science 85 (6):1368-1369.
19. **Ramachandra T.V.** and Nagarathna A.V. (2003), Biodiversity characterization at landscape level in North-East India using satellite remote sensing and GIS, Current Science.
20. **Rao, S. M.**, Nanda, J. P. and Mamatha, P. (2008). “Groundwater quality issues in India.” Advances in water quality and management, Research Publication Services, Singapore, 33-55.
21. **Rao, S. M.**, Monto, M. and Mythri, D. J. (2008). “Summary: Issues, R & D challenges, institutional and societal gaps in sustainable and quality water.” Advances in water quality and management”, Research Publication Services, Singapore, 327-330.

22. **Rao, S. M.** (2006). "Identification and classification of expansive soils." Expansive soils; Recent advances in characterization and treatment, Al-Rawas and Goosen (editors), Taylor and Francis, New York, 15-24.
23. Subhashree Das and **N.H. Ravindranath**, (2006), Remote Sensing Techniques for Biomass Production and Carbon Sequestration Project. In: Rosillo-Calle Frank, S.Hemsterk and Jeremy Woods (Eds.), Biomass Assessment Handbook , *Earthscan*.
24. **Ravindranath, N.H.**, and Usha Rao, (2005), Environmental effects of energy from biomass and municipal solid waste, In: Jose Goldemberg (Ed.), Interactions: Energy / Environment, Encyclopedia of life support system, *UESCO-ELOSS*.
25. **Ravindranath, N.H.**, P. Sudha, I. K. Murthy, T. S. Sukanya, (2004), Uncertainty Reduction, Quality Assurance and Quality Control Procedure for GHG Inventory in the LUCF Sector . In: A.P. Mitra, Subodh K. Sharma, Sumana Bhattacharya and Amit Garg (Eds.), Uncertainty Reduction in Greenhouse Gas Inventories, *Universities Press*, Hyderabad.
26. **Ravindranath, N.H.**, N.V. Joshi, R. Sukumar, I. K. Murthy and H. S. Suresh, (2004), Vulnerability and Adaptation to climate Change in the Forest Sector. In: N. H. Ravindranath , S. K. Sharma, A. Garg, S. Bhattacharya and I. K. Murthy (Eds.), *Universities Press*, Hyderabad.
27. Nabuurs,G.J., **N. H. Ravindranath** and K. Paustian, A. Freibauer, W. Hohenstein, W. Makundi, (2004), Intergovernmental Panel on Climate Change, Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories, IPCC Good Practice Guidance for LULUCF Sector, Chapter 3: LUCF Sector Good Practice Guidance, Coordinating Lead Authors: *IPCC-WMO-UNEP*,Geneva.
28. **Ravindranath, N.H.**, & Indu K. Murthy, (2004), Review of Studies on Climate Impacts on Forests in India – Policy Implications , "*Climate Change Scenario in India & Mitigation Policies* ", Eds. S. K. Dash & Prakash Rao, WWF – India .
29. Sudha, P., Bhat, P. R., Jagannath Rao, R., Nagaraja, B.C., Hegde, G.T., Shastri, C.M., Hegde, G.N., Shetty, Murali, K.S., D.M., Bhat, D.M and **Ravindranath, N.H.** (2004), Joint Forest Planning And Management In Karnataka: Its Spread, Performance And Impact. In **N.H.Ravindranath** and P. Sudha (Edtrs.) Joint Forest Management in India : Spread, Performance and Impact. *Universities Press ( India ) Private Limited*, 3-5-819 Hyderguda, Hyderabad 500 029 ( A.P.) India . Pp. 86-121.
30. Murthy, I. K ., Hegde, G. T., Ramprasad, V., Bhat, P. R., Jagannatha Rao, R., Nagaraja, B. C., Shastri, C. M., Nagendra, M. D. V., Khan, H., Sudarshan, Shetty, D. M. and Hegde, G.N, (2004), The Ecological Impact of Joint Forest Management in Karnataka, In: Joint Forest Management in India : Spread, Performance and Impact , Eds: **N H Ravindranath** and P Sudha, Universities Press ( India ) Private Limited, Hyderabad , India.
31. Murthy, I. K ., Hegde, G. T., Bhat, P. R., Shastri, C. M., Shetty, D. M. and Hegde, G.N, Bhat D. M. and Ravindranath N. H. (2004). The Ecological Impact of Joint Forest

Planning and Management in the Western Ghats , Karnataka, In: Joint Forest Planning and Management in Karnataka: Institutional, Ecological and Policy Analysis. Compiled and Coordinated by Sudha, P., Bhat, P. R., Jagannatha Rao, R., Indu K. Murthy and **Ravindranath N. H.** Ecological and Economics Research Network.

32. Sudha P., Malhotra K. C., Palit, S., Kameswara Rao, K., Srinivas, M., Negi, N. K., Tiwari, B. K., Mishra, T. K., Jagannatha Rao, R., Bhat, P. R., Murthy, I. K ., and Ravindranath N. H., (2004). Synthesis of its Spread, Performance and Impact in Andhra Pradesh, Gujarat, Karnataka, Rajasthan, Tripura and West Bengal . In: Joint Forest Management in India : Spread, Performance and Impact , **Eds: N H Ravindranath** and P Sudha, Universities Press (India) Private Limited, Hyderabad , India.
33. Jagannatha Rao, R., Murali K. S. and Murthy I. K. (2004), Joint Forest Management Studies in India : A Review of the Monitoring and Evaluation Methods. In: Joint Forest Management in India : Spread, Performance and Impact , Eds: **N H Ravindranath** and P Sudha, Universities Press ( India ) Private Limited, Hyderabad, India.
34. **Ravindranath, N.H.**, and Indu K. Murthy, (2003), Climate Change and Biodiversity: Policy Synergy, 2003. *Mainstreaming Biodiversity and Climate Change, Proceedings of the Asia Regional Workshop*, Eds. Bhujangarao Dharmaji, Balakrishna Pisupati and Helen Baulch. *Regional Biodiversity Programme, Asia*.
35. **Ravindranath, N.H.**, I. K. Murthy and K. S. Murali, (2003), Community forest resource management in India : Initiative and experience. In: S. B. Roy, G. Yadav, and R. Mukherjee (Eds), Contemporary Studies in Natural Resource Management in India, *Inter-India publications*, New Delhi, pp 199-232.

## Technical Reports

1. **Balachandra, P.** (2007). “Oil-Price Vulnerability Index for the Developing Countries of Asia-Pacific”, Technical Paper submitted to UNDP Regional Centre, Bangkok, Thailand, October 2007, 38 Pages.
2. **Balachandra, P.,** Mathew, Mary. (2006). “A Framework for Logistics Technology Transfer between Europe and India”, European Commission, January 2006, 103 Pages.
3. **Balachandra, P.** and Wickramasinghe, A. (2006). “Bioenergy Development Project – Report of the Final Evaluation”, Submitted to the UNDP, Sri Lanka, January 2006, 41 Pages.
4. Mathew, Mary, **Balachandra, P.,** Matzner, Kay and D’Souza, Audrey. (2005). “LOGINDIA: Transferring Logistics Know-how to India – A Demand Analysis”, European Commission, February 2005, 132 Pages.
5. **Balachandra, P.,** Ravindranath, N. H., and Dasappa, S. (2004). “Ranking of Barriers and Identifying Important Measures for Bioenergy Technologies in India”, Asian Regional Research Programme in Energy, Environment and Climate – Phase III, Asian Institute of Technology, Bangkok, Thailand, March 2004, 45 Pages.
6. Bala Subrahmanya, M.H. and **Balachandra, P.** (2003). “A Study of Energy Consumption Pattern and Potential for Energy Efficiency in Small Industry Clusters of Karnataka”, Research Project Report submitted to the Ministry of Statistics, Government of India, New Delhi, India, September 2003, 200 Pages.
7. **Balachandra, P.** (2003). “Technology Transfer Mechanism for Bioenergy Technologies”, Fellowship Report, Asian Regional Research Programme on Energy, Environment and Climate – Phase III (ARRPEEC-III), Biomass Energy in Asia: Assessment and Strategy Formulation, Asian Institute of Technology, Bangkok, Thailand, April 2003, 70 Pages.
8. **Chanakya, H.N.,** Ramachandra, T.V. and Vijayachamundeeswari M. (2006), Anaerobic Digestion and Reuse of Digested Products of Selected Components of Urban Solid Waste, CES Technical report No 114, Centre for Ecological Sciences, Bangalore.
9. **Ramachandra T.V.,** Sudhira H.S., Karthick B. and Avinash K.G. (2007), Environmental Impact of Developmental Activities in the Bellandur Lake Catchment, ENVIS Technical Report: 27, Environmental Information System, Centre for Ecological Sciences, Bangalore.
10. **Ramachandra T.V.** and Sudhira H.S. (2007), Present Status of Gottigere Tank: Indicator of Decision Maker’s Apathy, ENVIS Technical Report: 26, Environmental Information System, Centre for Ecological Sciences, Bangalore.
11. **Ramachandra T V** and Malvikaa Solanki, (2007), Ecological assessment of Lentic Waterbodies of Bangalore, ENVIS Technical Report 25, Environmental Information System, Centre for Ecological Sciences, Bangalore.

12. **Ramachandra T.V.** and Savitha Ganapathy, (2007), Vegetation Analysis in Uttara Kananda district using GIS and Remote Sensing Techniques, Sahyadri Conservation Series 2, ENVIS Technical Report 24, Environmental Information System, Centre for Ecological Sciences, Bangalore.
13. **Ramachandra T.V** and Shruthi Bachamanda, (2006), Environmental Audit of Municipal Solid Waste Mangement, CES Technical Report 118, Centre for Ecological Sciences, Bangalore.
14. **Ramachandra, T.V.**, Rishiram, R. and Karthick, B. (2006), Zooplankton as Bioindicators: Hydrobiological Investigations in selected Bangalore lakes, CES Technical report No 115, Centre for Ecological Sciences, Bangalore.
15. Sameer Ali, Rao G.R., Divakar K. Mesta, Sreekantha, Vishnu D. Mukri., Subash Chandran, M.D., Gururaja K.V., Joshi, N.V. and **Ramachandra T.V.** (2006), Ecological status of Sharavathi valley wildlife sanctuary, Sahyadri Conservation Series 1, ENVIS Technical Report 19, Environmental Information System, Centre for Ecological Sciences, Bangalore.
16. Karthick, B. and **Ramachandra T.V.** (2006), Water quality status of Sharavathi river basin, Western Ghats, Sahyadri Conservation Series 5, ENVIS Technical Report 23, Environmental Information System, Centre for Ecological Sciences, Bangalore.
17. Kanamadi RD, Ahalya N and **Ramachandra TV.** (2006), Biosorption of Heavy Metals by Low cost Adsorbents. *CES Technical Report 112*, Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
18. Ahalya N, **Ramachandra TV** and Kanamadi RD. (2006), Low cost biosorbents for dye removal, *CES Technical Report 113*, Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
19. Uttam Kumar, **Ramachandra T.V.**, Norman Kerle, Clement Atzberger and Milap Punia, (2006), Evaluation of Algorithms for land cover analysis using Hyperspectral data, CES Technical report No 111, Centre for Ecological Sciences, Bangalore.
20. **Ramachandra TV**, Ahalya N and Kanamadi R.D, (2005), Biosorption: Techniques and Mechanisms, *CES Technical Report 110*, Centre for Ecological Sciences, Indian Institute of Science, Bangalore.
21. **Ramachandra T.V.** and Kamakshi G. (2005), Bioresource Potential Of Karnataka [Talukwise Inventory With Management Options], CES Technical report No 109, Centre for Ecological Sciences, Bangalore.
22. Sudhira H.S., **Ramachandra, T. V.**, Andreas Wytzisk & C. Jeganathan, (2005), Framework for Integration of Agent-based and Cellular Automata Models for Dynamic Geospatial Simulations, CES Technical report No 100, Centre for Ecological Sciences, Bangalore.

23. **Ramachandra T.V.**, Ahalya N. and Mandy Payne, (2003), Status of Varthur lake: Opportunities for Restoration and Sustainable management, CES Technical report No 102, Centre for Ecological Sciences, Bangalore.
24. **Ramachandra T.V.** and Rajinikanth R. (2003), Economic valuation of wetlands, , CES Technical report No 101, Centre for Ecological Sciences, Bangalore.
25. Sudhira H.S., **Ramachandra T.V.**, and Jagadish K.S. (2003), Urban sprawl pattern analysis using GIS, CES Technical report No 99, Centre for Ecological Sciences, Bangalore.
26. **Ravindranath, N. H.**, Balachandra, P., and Dasappa, S. (2004). “Biomass Energy in Asia - Assessment and Strategy Formulation”, Asian Regional Research Programme in Energy, Environment and Climate – Phase III, Asian Institute of Technology, Bangkok, Thailand, December 2004, 144 Pages.