

## SURENDER KUMAR

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**Areas of Interest:** Environmental and Resource Economics, Climate Change Economics, Applied Econometrics, Efficiency and Productivity Analysis

### Employment

Professor, Department of Economics, Delhi School of Economics, University of Delhi since May 01, 2015

Director (Acting), Agricultural Economics Research Centre, University of Delhi, 01 September 2016 to 31 May 2017.

Professor, Department of Business Economics, University of Delhi, February 01, 2011 to April 30, 2015

Professor, TERI University, New Delhi, August 01, 2009 to January 31, 2011

Associate Professor, TERI University, New Delhi, May 12, 2005 to July 31, 2009.

Fellow (Associate Professor), National Institute of Public Finance and Policy, New Delhi, August 5, 2003 to May 11, 2005

Lecturer in Economics, Arya Postgraduate College, Panipat, August 12, 1995 to August 4, 2003.

### Visiting Academic Positions

Visiting Professor, Centre for Economic Studies and Planning, Jawaharlal Nehru University, New Delhi, February 01-April 30, 2012 & January 14-May 10, 2013.

Japan Society for Promotion of Sciences (JSPS) Fellow (Visiting Associate Professor), International Graduate School of Social Sciences, Yokohama National University, Yokohama, Japan, May 2008 to March 2009.

Post Doctoral Fellow, Department of Agricultural and Consumer Economics, University of Illinois at Urbana-Champaign, (USA) February-November, 2002

### Consultancy

Consultant, ADB, Project TA 8522: The Urbanization-Poverty-Inequality Triangle in Asia and the Pacific, 2014

Consultant, E&Y, GIZ Project on 'Environmental Fiscal Reforms', 2013

Consultant, National Council of Applied Economics Research, Pollution from Agricultural Residue Burning and Health Impacts, 2008-2009

Consultant, World Bank (WSP-South Asia), Demand Assessment and Consumer Preferences for Improved Water Supply and Sewerage Services in Delhi 2005

Consultant, World Bank (WSP-South Asia), Demand Assessment for Improved Water and Sewerage Services in 8 ULBs in Bangalore 2004.

Consultant, Institute of Economic Growth, Delhi, Environmental and Economic Accounting Project, 1999-2001

### Education

Ph. D. (Economics): Centre for Economic Studies and Planning, Jawaharlal Nehru University, New Delhi (2001), Ph.D. Thesis: Economic Evaluation of Development Projects: A Case Analysis of Environmental-Health Implications of the Thermal Power Sector in India.

M. Phil. (Economics): Centre for Economic Studies and Planning, Jawaharlal Nehru University, New Delhi, (1993), M. Phil. Dissertation: Trends and Prospects of Forest Products in India: Implications for Sustainable Development of Forest Resources  
M. A. (Economics): Department of Economics, Kurukshetra University, Kurukshetra (1990)

#### **Administrative and Professional Responsibilities/Services**

- University of Delhi Representative, Board of Governors, Institute of Economic Growth, Delhi, since March 2019
- University of Delhi Representative, Governing Body, Mata Sundari College, New Delhi since February 2018
- Member, Organizing Committee, Winter School 2017, Centre for Development Economics, Delhi School of Economics, December 13-15, 2017.
- Member, Research Committee, Rajiv Gandhi National Institute of Youth Development, since August 08, 2017
- Jury Member, Manubhai M. Shah Memorial Award for Excellence in Commerce and Business Management (MMSMA) and Saurabh Shiware Memorial Young Researcher Award (SSMYRA) conferred by the Indian Commerce Association at its 65<sup>th</sup> and 66<sup>th</sup> All India Commerce Conference.
- Director (Acting), Agricultural Economics Research Centre, University of Delhi, since 01 September 2016 to 31 May 2017
- Subject Expert, Selection Committee for Professorship, Guru Gobind Singh Indraprastha University, New Delhi, 2016
- Government of India Nominee, 19<sup>th</sup> Council, Institute of Cost Accountants of India, since December 2015.
- Treasurer (since April 2019) and Council Member, Centre for Development Economics, Delhi School of Economics, University of Delhi since August 2015
- Treasurer (since Feb. 2015) and Vice-Chancellor's nominee, Governing Body, School of Open Learning (SOL), University of Delhi since July 2012 to December 2016
- Vice-Chancellor's nominee, Governing Body, Ramanujan College, University of Delhi since August 2014 to August 2016
- Vice-Chancellor's nominee, Board of Research Studies, Faculty of Management Studies, University of Delhi, since 02 August, 2014
- Vice-Chancellor's nominee, Board of Post Graduate Studies in Economics, Kurukshetra University, Kurukshetra, July 2013 to July 2015.
- Subject Expert, Selection Committee for Professorship, M. S. University Vadodara, 2012
- Vice-Chancellor's nominee, Departmental Research Committee, Department of Economics, University of Delhi, since August, 2012 to August 2014
- Treasurer, Governing Body, Kalindi College, University of Delhi, August 2011 to December 2012, and Delhi University Vice-Chancellor's nominee, Governing Body, Kalindi College, August 2011- August 2013.
- Member, Governing Body, *Aravali* Hostel, South Campus, University of Delhi since June 2011.
- Organized 1<sup>st</sup> and 2<sup>nd</sup> Executive training programs on Business and Climate Change during August 17-21, 2009 and August 2-4, 2010 at TERI University, New Delhi
- Coordinated UGC Sponsored Refresher Course in Economics during December 3-22, 2012, University of Delhi, South Campus.
- Head, Department of Policy Studies, TERI University since May 15, 2009 to November 30, 2010.

- Program Coordinator, MA (Public Policy and Sustainable Development), TERI University, New Delhi, May 2007 to May 2008.
- Coordinator, Working Papers Series, NIPFP, New Delhi, April 2004 to May 2005.
- Course Director, Training Program for the Probationers of Indian Audit and Accounts Services in Public Finance, National Institute of Public Finance and Policy, New Delhi, during Feb. 9-28, 2004.

#### **Honors, Awards and Other professional Activities**

- Lead Author for the chapter 10, *Key Economic Sectors and Services*, of the Working Group II contribution to the Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report (AR5)
- ‘FY 2008 JSPS Invitation Fellowship Program for Research in Japan (Long Term)’, Yokohama National University, May 2008 to March 2009.
- Post-Doctoral Fellowship awarded by the National University of Singapore in December 2002 (not availed).
- Environmental Economics Overseas Fellowship under the World Bank Aided Environmental Management Capacity building Project in India, University of Illinois at Urbana-Champaign, February to November 2002.
- University Grant Commission’s Junior and Senior Research Fellowship (1990-1995)

#### **Research Grants**

1. Embodied Carbon Trade and Trade Resistances: Evidence from South Asian Countries, Project for South Asian Network for Development and Environmental Economics, 2014-15, Rs. 10 lakhs.
2. Environmental Fiscal Reforms in India: Where and How?, Project for GTZ and Ministry of Environment and Forests, Government of India, 2010-2012, Rs. 8292100 (Co-authors Shiipi Kapur et al.)
3. Economics of Sanitation Initiative – Sanitation Options Study (India), Project for the World Bank, 2009-10, Rs 7628638 (Co-authors Mr R. Johri et al).
4. Ecosystem Services and Poverty Alleviation in India-Hindukush Region: A Situation Analysis, Project for NERC, DIFD and ESRC (UK), 2007-08, £2,50,000 [in collaboration with SWIMMER (University of Liverpool, U.K.), IUCN (Sri Lanka), BRAC (Bangladesh) and SDPI (Pakistan)].
5. Relative Environment Economics of coal and other fossil based fuels for power generation and policy options for India, Project for Petroleum Federation of India, 2007, Rs 1500000.
6. Ecological Footprint: Establishing a tool to measure and manage urban energy use in India and China (Phase I), Project for Veolia Environment Institute, Paris 2007-08, US\$ 110347.
7. Central Government Subsidies in India (Project for the Ministry of Finance, Government of India), National Institute of Public Finance and Policy, New Delhi, 2004 (Co-authors Dr. Tapas Sen and Dr. N. J. Kurien) formed the basis of the Discussion Paper on "*Central Government Subsidies in India: A Report*" **which was placed in the Parliament by the Ministry of Finance, Government of India on December 23, 2004.**
8. Long term Impacts of Overall Imposts on the Exploration and Production of Crude Oil and Natural Gas; National Institute of Public Finance and Policy, New Delhi, (Project for the Ministry of Petroleum and Natural Gas, Govt. of India); 2006 (Co-author T. K. Sen)
9. Differential Tax Structure Linked to Energy Efficiency of Cars; The Energy and Resource Institute, New Delhi (Project for the Ministry of Finance, Govt. of India) 2005 (Co-authors Ranjan Bose et al.)

## Research Journals

- Associate Editor, Ecology, Economy and Society—the INSEE Journal, Since March 2019
- Guest Editor, Special Issue on ‘Productivity Growth in India’, Indian Growth and Development Review, 2019
- Member, Editorial Board, Economics of Disasters and Climate Change (A Springer Journal)
- Member, Editorial Board, Indian Economic Review, since 2015
- Member, Editorial Advisory Committee, APN Science Bulletin, 2016.

## Books

1. Kumar, P., **Kumar, S.**, and Joshi, L., *Socioeconomic and Environmental Implications of Agricultural Residue Burning*, Springer, New Delhi (2015)
2. Kumar, S., *Economics of Air Pollution: A Case of Thermal Power Generation in India*, VDM Publishing House, Germany (2011)
3. Kumar, S., *Energy Prices and Induced Innovation: A Directional Distance Function Approach*, VDM Publishing House, Germany (2010)
4. Kumar, S., and Managi, S., *The Economics of Sustainable Development: the Case of India*, Springer, New York (2009)
5. Murty, M.N. and Kumar, S., *Environmental and Economic Accounting for Industry*, Oxford University Press, New Delhi (2004)

## Papers in Journals

1. Kumar, S. and Prabhakar, P., “Industrial Energy Prices and Export Competitiveness: Evidence from India” *Environmental Economics and Policy Studies* (forthcoming)
2. Kumar, S. and Jain, R. K., “Carbon-sensitive Meta-Productivity Growth and Technological Gap: An Empirical Analysis of Indian Thermal Power Sector” *Energy Economics*, vol. 81, pp. 104-116, 2019.
3. Jain, R. K. and Kumar, S., “Shadow Price of CO<sub>2</sub> Emissions in Indian Thermal Power Sector” *Environmental Economics and Policy Studies* vol. 20(4), 2018, pp. 879-902
4. Kumar, S and Shetty, S., “Corporate Participation in Voluntary Environmental Programs in India: Determinants and Deterrence” *Ecological Economics* vol. 147, 2018, pp. 1-10.
5. Kumar, S and Shetty, S., “Does Environmental Performance Improve Market Valuation of the firm: Evidence from Indian market” *Environmental Economics and Policy Studies* vol. 20, no. 2, 2018, pp. 241-260.
6. Kumar, S. and Prabhakar, P., “India’s Trade Potential and Free Trade Agreements: A Stochastic Frontier Gravity Approach” vol. 17, no. 1, 2017 *Global Economy Journal*
7. Shetty S and Kumar S, “Are Voluntary Environmental Programs Effective in Improving the Environmental Performance: Evidence from Polluting Indian Industries” *Environmental Economics and Policy Studies* vol. 19, No. 4, pp659-676, 2017
8. Shetty S and Kumar S, “Opacity of Environmental information in India” *Economic and Political Weekly* vol 51, no. 30, pp15-19, 23 July 2016.
9. Kumar, S., Managi, S., ‘Carbon sensitive productivity, climate and institutions’, *Environment and Development Economics* vol. 21, no. 1, pp. 109-133, 2016.
10. Kumar, S. and Prabhakar, P. ‘Negative Carbon Leakage: Evidence from South Asian Countries’, Working Paper No. 109-16, South Asian Network for Development and Environmental Economics, 2016.

[http://www.sandeeonline.org/uploads/documents/abstract/1089\\_ABS\\_Final\\_WP\\_Surender\\_Perna\\_109-16.pdf](http://www.sandeeonline.org/uploads/documents/abstract/1089_ABS_Final_WP_Surender_Perna_109-16.pdf)

11. Kumar, S., Fujii, H, and Managi, S. Substitute or complement? Assessing renewable and non-renewable energy in OECD countries, *Applied Economics* Vol. 47, no. 14, pp. 1438-1459, 2015
12. Kumar, S. and Kumar, S., 'Does Modernization Improve Performance: Evidence from Indian Police' *European Journal of Law and Economics* vol. 39, pp. 57-77, 2015
13. Kumar, S. 'Convergence in electricity consumption in India: a state level analysis', *Indian Economic Review*, vol. XLIX(2), pp. 173-192, 2014
14. Yalew, A. W., and S. Kumar, 'Assessing Sustainability of BASIC: A Comprehensive Wealth Perspective' *The Journal of Income and Wealth*, Vol. 36, no. 1, pp. 1-20, 2014.
15. Kumar, S., 'Comprehensive Wealth and Sustainable Development in India' *Journal of Income and Wealth* vol. 34, no. 2, pp. 3-15, 2013
16. Sridhar, K. S. and Kumar, S., 'India's Urban Environment: Air and Water Pollution and Pollution Abatement' *Economic and Political Weekly* vol. XLVIII, No. 06, 09 February 2013.
17. Kumar, S., and Yalew, A. W., 'Economic Impacts of Climate Change on Secondary Activities: A Literature Review' *Low Carbon Economy* vol. 3, pp. 39-48, 2012.
18. Kumar, S. and Managi, S., 'Productivity and Convergence in India: State Level Analysis', *Journal of Asian Economics*, vol. 23(5), pp. 548-559, 2012,
19. Gupta, S., Kumar, S. and Sarangi, G. K., 'Measuring the performance of water service providers in urban India: Implications for managing water utilities' *Water Policy* Vol. 14, pp. 391-408, 2012
20. Kumar, S., Managi, S. and Matsuda, A., 'Stock Prices of Clean Energy Firms, Oil and Carbon Markets: A Vector Autoregressive Analysis' *Energy Economics*, Vol. 34, No. 1, pp. 215-226, 2012.
21. Kumar, S., and Managi, S., 'Substitutability and Non-separability among Water Pollutants: Evidence from India' *Environment and Development Economics* Vol. 16, no 6, pp. 709-733, 2011
22. Khanna, M. and Kumar, S., 'Corporate Environmental Management and Environmental Efficiency' *Environmental and Resource Economics*, Vol. 50, no. 2, pp. 227-242, 2011
23. Kumar, S., and Managi, S., 'Environment and Productivities in Developed and Developing Countries: The Case of Carbon Dioxide and Sulfur Dioxide', *Journal of Environmental Management* Vol. 91, No. 07, pp. 1580-1592, 2010
24. Kumar, S., and Managi, S., 'Sulfur Dioxide Allowances: Trading and Technological Progress', *Ecological Economics* Vol. 69, no. 10, pp. 623-631, 2010.
25. Kumar, S., and Managi, S., 'Service Quality and Performance Measurement: Evidence from the Indian Water Sector', *International Journal of Water Resources Development*, vol. 26(2), pp. 173-191, 2010.
26. Kumar, S., 'Unaccounted for Water and Performance Measurement: An Empirical Analysis from the Indian Water Sector' *Water Policy* vol 12, pp. 706-721, 2010.
27. Kumar, S. and Khanna, M., 'Measurement of Environmental Efficiency and Productivity: A Cross Country Analysis', *Environment and Development Economics* vol 14, pp. 473-495, 2009
28. Kumar, S., and Managi, S., 'Compensation for Environmental Services and Intergovernmental Fiscal Transfers: the Case of India', *Ecological Economics* Vol. 68, no. 12, pp. 3052-3059, 2009.
29. Kumar, S., and Managi, S., 'Energy Price-Induced and Exogenous Technological Change: Assessing the Economic and Environmental Outcomes', *Resource and Energy Economics* vol. 31(4), pp. 334-353, 2009.

30. Kumar, S., 'The Macroeconomic Effects of Oil Price Shocks: Empirical Evidence for India', *Economics Bulletin*, Vol. 29 no.1 pp. 14-37, 2009.
31. Managi, S. and Kumar, S., 'Trade Induced Technological Change: Analyzing Economic and Environmental Outcomes' *Economic Modelling*, Vol. 26. No.3, pp. 721-732, 2009.
32. Kumar, S., 'Energy Prices and Induced Technological Progress', *Economics Bulletin*, vol. 15 (17), pp. 1-15, 2008
33. Murty, M.N., Kumar, S. and Dhavala, K.K., 'Measuring Environmental Efficiency of Industry: A Case Study of Thermal Power Generation', *Environmental and Resource Economics*, vol. 38, pp. 31-50, 2007, reprint in '*Growth, Equity, Environment and Population: Economic and Sociological Perspectives*' eds. K. Chopra and C. H. H. Rao, New Delhi: Sage Publications
34. Kumar, S., 'A Decomposition of Total factor Productivity Growth: A Regional Analysis of Indian Industrial Manufacturing Growth', *International Journal of Productivity and Performance Management*, vol. 55(3/4), pp. 311-331, 2006
35. Kumar, S., 'Environmentally Sensitive Productivity Growth: A Global Analysis Using Malmquist-Luenberger Index', *Ecological Economics*, vol. 56(2), pp. 280-293, Feb. 15, 2006.
36. Kumar, S., 'Analyzing Industrial Water Demand in India: An Input Distance Function Approach' *Water Policy*, ISSN: 1366-7017 vol. 8(1), pp. 15-29, 2006
37. Murty, M.N., Kumar, S. and Paul, M., 'Environmental Regulation, Productive Efficiency and Cost of Pollution Abatement: A Case Study of Sugar Industry in India' *Journal of Environmental Management* vol. 79(1), pp. 1-9, April 2006
38. Kumar, S. and Rao, D.N., 'Environmental Regulation and Production Efficiency: A Case Study of Thermal Power Sector in India' *Journal of Energy and Development*, vol. 29(1), pp. 81-94, 2003.
39. Murty, M.N. and Kumar, S., 'Win-Win Opportunities and Environmental Regulation: Testing the Porter Hypothesis for Indian Manufacturing Industries', *Journal of Environmental Management*, vol. 67(2), pp. 139-144, 2003
40. Kumar, S. and Rao, D.N., 'Estimating Marginal Abatement Costs of SPM: An Application to Thermal Power Sector in India', *Energy Studies Review*, vol. 11(1), pp. 76-92, 2002
41. Murty, M.N. and Kumar, S., 'Measuring Cost of Sustainable Industrial Development in India: A Distance Function Approach' *Environment and Development Economics*, vol. 7, pp. 467-486, 2002
42. Kumar, S. and Rao, D.N., 'Measuring Benefits of Pollution Abatement Using Health Production Function: A Case Study of Panipat Thermal Power Station', *Environmental and Resource Economics*, vol. 20, pp. 91-102, 2001.

#### **Chapters in Edited Books**

1. Kumar, S. 'Air Pollution and Traffic Congestion in Urban India' in '*Cities of Dragons and Elephants: Urbanization and Urban Development in the People's Republic of China and India*', edited by G. Wan and M. Lu, Oxford University Press, Oxford (forthcoming)
2. Kumar, S., 'Urbanization and Water Supply and Sanitation in India' in '*Cities of Dragons and Elephants: Urbanization and Urban Development in the People's Republic of China and India*', edited by G. Wan and M. Lu, Oxford University Press, Oxford (forthcoming)
3. Shetty, S. and S. Kumar, 'Information Disclosure: A Policy Tool for Managing Environmental and Energy Challenges' in '*Energy Law and Sustainable Development*', edited by. U. Tandon, Oxford University Press, New Delhi (forthcoming)
4. Kumar S. and P. Kumar, 'Economic Impact of Air Pollution from Agricultural Residue Burning on Human Health', in '*Climate Change Challenge (3C) and Social-Economic-*

- Ecological Interface-Building*, edited by S. Nautiyal et al. Springer International Publishing, Switzerland, 2016
5. Kumar, S., 'Technological Change and the Environment' in *Routledge Handbook of Environmental Economics in Asia*, edited by S. Managi, Routledge, New York (USA), 2015
  6. Kumar, S., and S. Managi, 'Productivity, Institutions and Climate Change: Lessons for Asian Countries' in *Routledge Handbook of Environmental Economics in Asia*, edited by S. Managi, Routledge, New York (USA), 2015
  7. Jain, S., S. Kumar and Paramjit, 'Valuation of Environmental Benefits in Asian Countries' in *Routledge Handbook of Environmental Economics in Asia*, edited by S. Managi, Routledge, New York (USA), 2015
  8. Arent, D.J., R.S.J. Tol, E. Faust, J.P. Hella, **S. Kumar**, K.M. Strzepek, F.L. Tóth, and D. Yan, 2014: Key economic sectors and services. In: *Climate Change 2014: Impacts, Adaptation, and Vulnerability. Part A: Global and Sectoral Aspects. Contribution of Working Group II to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* [Field, C.B., V.R. Barros, D.J. Dokken, K.J. Mach, M.D. Mastrandrea, T.E. Bilir, M. Chatterjee, K.L. Ebi, Y.O. Estrada, R.C. Genova, B. Girma, E.S. Kissel, A.N. Levy, S. MacCracken, P.R. Mastrandrea, and L.L. White (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, pp. 659-708.
  9. Kumar, S., 'Is India on a Sustainable Development Path?' in *Selected Readings on Sustainable Development*, edited by Rakesh Kumar Mudgal and Vaishali Dhingra, ISBN: 978-93-5062-501-9, Excel Books, New Delhi, 2014
  10. Kumar, S., and Managi, S., 'The Potential for LCE in India' in *Climate Smart Development in Asia: Transition to Low Carbon and Climate Resilient Economies*, edited by A. Srinivasan, F. Ling and H. Mori, ISBN-13: 978-1844078622 Routledge, 2012
  11. Murty, MN and Kumar, S., 'Water Pollution in India: An Economic Appraisal' in *India Infrastructure Report 2011: Water: Policy and Performance for Sustainable Development*, ISBN 0-19-807885-4 IDFC and Oxford University Press, 2011.
  12. Aggarwal, SC and Kumar, S., 'Industrial Water Demand in India: Challenges and Implications for Water Pricing' in *India Infrastructure Report 2011: Water: Policy and Performance for Sustainable Development*, ISBN 0-19-807885-4 IDFC and Oxford University Press, 2011.
  13. Murty, M.N. and Kumar, S., 'Measuring Productivity of Natural Capital' in *India: Industrialisation in a Reforming Economy', Essays for K. L. Krishna*, edited by S. D. Tendulkar, A. Mitra, K. Narayanan and D. K. Das, ISBN 81-7188-488-1 Academic Foundation, New Delhi 2006.

#### **Book Review**

1. Kumar, S., (New Directions in Productivity Measurement and Efficiency Analysis: Counting the Environment and Natural Resources, Edited by Tihomir Ancev, MA Samad Azad and Francesc Hernandez-Sancho, Cheltenham and Northampton: Edward Elgar, 2017), *Journal of Economic Literature*, vol. 56, no. 1, 2018
2. Kumar, S., (The New Public Finance: responding to global challenges, Eds. Inge Kaul and Pedro Conceicao, Oxford University Press 2006), *International Journal of Regulation and Governance* 7(1): 93-98, 2007.
3. Kumar, S., (Environmental Economics: Theory and Applications by Katar Singh and Anil Shishodia, New Delhi: Sage Publications 2007), *Consultancy Ahead*, Jan. 2008.

#### **Papers in Non-Refereed Journals/Study Material**

1. Kumar, S. and Sridhar, K. S., "India's urban environmental challenges: Land Use, Solid Waste and Sanitation" *The Yojana* Jun. 2013: 30-35.
2. Kumar, S. and Paramjit, 'Valuation of Health Impacts of Air Pollution in India', *Research Journal of Economics, Business and ICT*, vol. 5, pp. 1-7, 2012
3. Kumar, S., 'Environmental Degradation and Sustainable Development in India', *Commodity Vision*, 5(2): 20-27, 2011
4. Kumar, S., 'Rising Oil Prices: An Inducement to Technological Progress', *Commodity Vision* 2(1): 48-56, 2008.
5. Kumar, S. and Ghosh, N., 'Multivariate Analysis', Block 5, MECE-001 Econometric Methods, (study material prepared for MA Economics), ISBN-81-266-2743-3 Indira Gandhi National Open University, New Delhi, December 2006.

#### Articles in Newspapers

1. Kumar, S., "Oil Price Volatility and Need for Risk Management" *The Economic Times*, 26 March 2014: 5-5.
2. Kumar, S., "Commodity transaction tax not a prudent idea" *Financial Express* Feb. 2013: 13-13
3. Kumar, S., "CTT will hurt the commodity market" *Business Bhaskar* Feb. 2013: 4-4.

#### Working/Discussion Papers

1. Gupta, S., Kumar, S. and Sarangi, G. K., '[DOES GREATER AUTONOMY IMPROVE PERFORMANCE? EVIDENCE FROM WATER SERVICE PROVIDERS IN INDIAN CITIES](#)' Working Paper No. 205, Centre for Development Economics, Department of Economics, Delhi School of Economics, University of Delhi, October 2011
2. Kumar, S. and Chandra, N., 'Sustainability Concerns in Indian Agriculture: An Analysis of Subsidies and Investment', [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1709898](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1709898)
3. Kumar, S., 'Analyzing Linkages between Ecosystem Services and Poverty: South Asian Perspectives', Discussion Paper, Ecosystem Services and Poverty Alleviation Study in South Asia (ESPASSA): A Situation Analysis for India and the Hindu-kush Himalayan Region, Annex 3, TERI, New Delhi 2008. [http://www.espassa.org/ESPASSA\\_deliverables.htm](http://www.espassa.org/ESPASSA_deliverables.htm)
4. Kumar, S. and Sahu, S., 'Anthropogenic Drivers of Ecosystem Change in South Asia - An Overview', Discussion Paper, Ecosystem Services and Poverty Alleviation Study in South Asia (ESPASSA): A Situation Analysis for India and the Hindu-kush Himalayan Region, Annex 3, TERI, New Delhi 2008. [http://www.espassa.org/ESPASSA\\_deliverables.htm](http://www.espassa.org/ESPASSA_deliverables.htm)
5. Kumar, S. and Rao, D.N., 'Willingness to Pay Estimates of Improved Air Quality: A Case Study of Panipat Thermal Power Station Colony, India', [http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=910828](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=910828)
6. Kumar, S. and Gupta, S., 'Resource Use Efficiency of US Electricity Generating Plants During the SO<sub>2</sub> Trading Regime: A Distance Function Approach', Working Paper No. 17, National Institute of Public Finance and Policy, New Delhi, 2004. <http://www.nipfp.org.in/working%20paper/wp17.pdf>
7. Kumar, S., 'Productivity and Profitability Changes in US Electric Utility Plants under the SO<sub>2</sub> Allowance System', Working Paper, No.3, National Institute of Public Finance and Policy, New Delhi, 2003. <http://www.nipfp.org.in/working%20paper/wp03.pdf>
8. Kumar, S. and Khanna, M., 'Productivity Growth and CO<sub>2</sub> Abatements: A Cross Country Analysis Using the Distance Function Approach, Program in Environmental and

- Resource Economics (pERE), University of Illinois at Urbana-Champaign, Working Paper No. 29, 2002. [http://www.ace.uiuc.edu/pERE/papers/pERE\\_WP29.pdf](http://www.ace.uiuc.edu/pERE/papers/pERE_WP29.pdf)
9. Khanna, M., Kumar, S. and Anton, W., 'Environmental Self-Regulation: Implications for Environmental Efficiency and Profitability, Program in Environmental and Resource Economics (pERE), University of Illinois at Urbana-Champaign, Working Paper No. 26, 2002) [http://www.ace.uiuc.edu/pERE/papers/pERE\\_WP261.pdf](http://www.ace.uiuc.edu/pERE/papers/pERE_WP261.pdf)
  10. Murty, M.N. and Kumar, S., 'Environmental and Economic Accounting for Indian Industry, Institute of Economic Growth, Delhi, Working Paper No. E212/2001. <http://www.ieg.nic.in/workmnm2.pdf>
  11. Murty, M.N. and Kumar, S., Methodology for Estimating the Cost of Pollution Abatement: A Review of Literature, Institute of Economic Growth, Delhi, Working Paper No. E217/2001

### **Membership of Professional Bodies/Associations**

The Indian Econometric Society  
 Indian Society for Ecological Economics

### **Referee to Journals, Institutions (Research Proposals/Reports), & Conferences**

- Journal of Asia Pacific Economy, Singapore Economic Review, Sustainability, American Journal of Agricultural Economics, Metroeconomica, Journal of Economic Surveys, Statistical Methods and Applications, International Journal of Business and Economics, Environment and Development Economics, Journal of Productivity Analysis; Journal of Environmental Economics and Management; Environmental and Resource Economics; Ecological Economics; The Energy Policy; The China Economic Review; The Energy Journal; Journal of Environmental Management; Encyclopedia of Earth (online), Energy Studies Review; Environmental Economics and Policy Studies; Resource, Energy and Development; International Journal of Regulation and Governance; Journal of Developing Areas etc.
- Japan International Cooperation Agency Research Institute, South Asian Network on Development and Environmental Economics (SANDEE), International Water Management Institute (IWMI), The Energy and Resource Institute (TERI), New Delhi
- 7<sup>th</sup> International Conference of Japan Economic Policy Association held at Doshisha University, Kyoto, Japan during December 6-7, 2008, 2<sup>nd</sup> World Congress of Environmental and Resource Economists held at Monterey, California, USA during June 24-27, 2002, 12<sup>th</sup> Conference of the European Association of Environmental and Resource Economists held at Bilbao, Spain during June 28-30, 2003, 2<sup>nd</sup> International Conference on Environment and Development held at Swedish Royal Academy of Science, Stockholm, Sweden during September 5-8, 2000

### **Research Supervision**

*Ph D*

1. Rakesh Kumar Jain: Carbon Mitigation: An Economic Analysis of Thermal Power Sector in India (Submitted)
2. Pritika Dua: Adoption of Environmental Management System and Financial Performance: An Analysis of Indian Firms. (Submitted)
3. Perna Prabhakar: Economic Implications of Regional Trade Agreements: A Study of Selected Developing Countries (Awarded 2017)
4. Shivananda Shetty: Impact of Voluntary Environmental Programs on Environmental and Economic Performance of Firms in India, Department of Business Economics, University of Delhi (Awarded, 2017)

5. S K Joshi: Intergovernmental Fiscal Transfers and the Environment, TERI University, New Delhi (Awarded 2011)

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