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Employment Record

Professor of Economics, Institute of Economic Growth, University Enclave, Delhi-110007

Head, Indian Economic Service Section, Institute of Economic Growth

Course Director, Diploma in Development Planning and Policy, 1992- 1994, Institute of Economic Growth, Delhi - 110 007.

Course Director, Faculty Upgradation Programme in Environmental Economics, World bank Funded Capacity Building Project in Environmental Economics in India.

Warden, Institute of Economic Growth Hostel, Delhi-110007.

Reader, Institute of Economic Growth, University Enclave, Delhi-110 007, 1982-1993

Lecturer, Hindu College, Delhi University, 1970-1982.

Visiting Appointments

Visiting Ford Foundation Fellow, Department of Economics, University of Birmingham, U.K., 1991-92.

Visiting Professor, National Institute of Public Finance and Policy, New Delhi, January 1, 1989-December 31, 1989.

Senior Research Associate, Project on Indian Fiscal Systems, University of Warwick, U.K., 1980-1982.

Visiting Faculty for Teaching in World Bank Funded Faculty Upgradation Programmes Organised by Indira Gandhi Institute of Development Research, Mumbai, Indian Statistical

Institute, Kolkata, Institute for Economic and social Change, Bangalore, Madras School of Economics, Chennai, and Jadavpur University, Kolkata.

Visiting Faculty for Teaching in the Faculty Upgradation Programme Organized by the South Asian Net Work for Environment and Development (SANDEE) at Dacca.

Visiting Faculty for Teaching Environmental Economics, Jawaharlal Nehru University, New Delhi.

Visiting Faculty for Teaching Heritage Economics at School of Planning and Architecture, New Delhi.

Visiting Faculty for Teaching Courses in Public Economics, Delhi School of Economics.

Consultant: World Bank, International Crop Research Institute (ICRISAT), and ESCAP.

Educational Qualifications

1979 Delhi University, Delhi, Degree Ph.D., Economics

1966 Andhra University, Waltair, Degree M.A., Mathematical Economics,

1964 Andhra University, Waltair, Degree B.A., Mathematics, Economics and Political Science

Publications

Books Published

1. Environmental and Economic Accounting for Industry, Forthcoming, Oxford University Press, New Delhi, (Jointly with Surender Kumar)
2. Cleaning Up the Ganges: The Cost Benefit Analysis of Ganga Action Plan, Oxford university Press, New Delhi, 2000 (Jointly with Anil Markandya)
3. Economics of Industrial Pollution: Indian Experience, Oxford University Press, New Delhi, 1999 (Jointly with A.J. James and Smita Misra)
4. Participatory Development: People and Common Property Resources, Studies in Economic Development and Planning No.52, Institute of Economic Growth, SAGE, New Delhi January, 1990 (jointly with Kanchan Chopra and Gopal Kadekodi).
5. Economic Evaluation of Environmental Management Programs, Common Wealth Publishers, New Delhi, 1988.
6. On Fixing Postal Tariffs in India, National Institute of Public Finance and Policy, New Delhi, January, 1990 (jointly with Raghavendra Jha and Satyapal)

7. Redistributive Taxation and Public Sector Pricing: Some Theoretical Issues and Indian Experience, Studies in Economic Development and Planning No.51, Institute of Economic Growth, Delhi, 1989.

Research Monographs

1. Valuation and Accounting of Urban Air Pollution: A Study of Some urban Areas in the Indian Subcontinent
2. Valuation of Water, Monograph, World Bank Aided Capacity Building Project in Environmental Economics in India.
3. National Parameters for Investment Project Appraisal in India, Mimeo, January, 1992, with B.N. Goldar, G.K. Kadekodi and S.N. Mishra.
4. Water Conservation and Pollution Abatement in Indian Industry, A Report of the Project Commissioned by the Department of Environment, Government of India. National Institute of Public Finance and Policy, New Delhi, 1989, with D.B. Gupta and R. Pandey
5. Distributional Equity and Optimal Public Sector Prices, A Report of the Project Funded by ICSSR, Institute of Economic Growth, Delhi, 1988, with R. Jha.
6. Economic Evaluation of Composite Watershed Management in Dryland Regions, International Crop Research Institute for the Semi-Arid Tropics, India, 1986.

Research Projects Undertaken

1. Distributional Equity and Optimal Public Sector Prices, 1985-1986, Funded by ICSSR, New Delhi, India
2. Participatory Development: People and Common Property Resources, 1987-1989, Funded by the Planning Commission, Government of India.
3. On Fixing Postal Tariffs in India, Funded by the Department of Posts, 1990-1991 Government of India.
4. Water Conservation and Pollution Abatement in Indian Industry, 1991-1992, Funded by the Ministry of Environment and Forests, Government of India.
5. Industrial Water Pollution Abatement in India, 1994-1996, Funded by IDRC, Canada
6. Cost Benefit Analysis of Ganga Action Plan, 1997-1999, Funded by Overseas Development Administration, U.K.
7. Valuation and Accounting of Industrial Water Pollution in India, 1999-2001, Funded by the Research Committee of the World Bank Capacity Building Project in Environmental Economics in India.
8. Valuation and Accounting of Urban Air Pollution in the Indian Subcontinent, 2001- ,

Funded by the South Asian Network of Economic Institutions (SANEI)

Some Research Papers Published

1. Environmental Regulation, Productive Efficiency and Cost of Pollution Abatement: A Case Study of Sugar Industry in India. With Surender Kumar, and Mahua Paul Forthcoming in *Environmental and Development Economics*.
2. The Cost Benefit Analysis of Clearing Ganges: Some Emerging Environmental and Development Issues. With A. Markandya. Forthcoming, *Environmental and Development Economics*.
3. Win-win Opportunities and Environmental Regulation: testing of Porter hypothesis for Indian manufacturing industries (With Surender Kumar) Forthcoming, Journal of Environmental Management, Academic Press.
4. Measuring Cost of Environmentally Sustainable Industrial Development in India: A Distance Function Approach, With Surender Kumar. *Environment and Development Economics*. 2002. 7, pp. 467-486.
5. Tax Devolution in Co-operative Federalism: Indian Experience, in Fiscal Federalism in India: Contemporary Challenges, Issues Before the Eleventh Finance Commission, edited by D.K. Srivastava, National Institute of Public Finance and Policy, New Delhi, 2000.
6. Environmental Regulation and Economics of Environmental Policies, 'Environmental Economics' edited by R.N. Bhattacharya, Oxford University Press, 2000, New Delhi.
7. Fiscal Federalism Approach for Controlling Global Environmental Pollution, Environmental and Resource Economics, Journal of European Association of Environmental and Resource Economists,
8. Contractual Arrangements for Sharing Benefits from Preservation: Joint Management of Wildlife, Chapter-8 in (Ed.) Ashish Kothari, People & Protected Areas: Towards Participatory Conservation in India, Sage Publications, New Delhi, 1996.
9. Management of Common Property Resources: Limits to Voluntary Collective Action, 1992, Environmental and Resource Economics, Journal of European Association of Environmental and Resource Economists, December, 1994.
10. Value Added Taxation in a Federation: Commodity Tax Reforms in India, Economic and Political Weekly Vol XXX. No 11, March, 1995.
11. Economic Aspects of Wildlife Protection in the Developing Countries: A Case Study of Keoladev National Park, Bharatpur, India, With Susan Menkhaus, Society for Waste Land Development (SPWD).

12. Social Cost Benefit Analysis Environmental Pollution in the Coal Fired Thermal Power Generation, Forth Coming in Environmental Economics, Ed. by Anil Agarwal, Centre for Science and Environment, New Delhi.
13. Environmental Regulation in the Developing World: The Case Study of India, Review of European Community and International Environmental Law, December, 1995.
14. Optimal Taxation and India: A Review of Theory and Applied Work, With Pulin Nayak, November 1990, Working Paper No.E/148/90. Institute of Economic Growth, Delhi - 7. 'Welfare Economics', Ed. by Bhaskar Datta, Oxford University Press, Delhi, December, 1993.
15. A Normative Approach for Resource Transfers in a Federal State, Paper Presented at International Seminar in Public Economics, 11-13, January, 1990, New Delhi, with Pulin B. Nayak. in Tax Policy and Planning in Developing Countries ed. by Bagchi A and Nicholas Stern, Oxford University Press, New Delhi, December, 1993.
16. An Analysis of Technical Change, Factor Substitution and Economies of Scale in Manufacturing Industries in India, with others, Applied Economics, U.K., 1993, 25, pp.1337-1343.
17. Technical Change, Factor Substitution and Economies of Scale in Selected Manufacturing Industries in India, with others Journal of Quantitative Economics, January, 1991.
18. On Setting Prices for Certain Manufacturing Commodities in India, with others Economic and Political Weekly, 1991.
19. Allocative Efficiency, Scale Economies and Technical Progress in the Gas and Electricity Industry in India, with others, The Journal of Energy and Development Spring 1991, U.S.A.
20. Cost Structure of India's Iron and Steel Industry: Allocative Efficiency, Economies of Scale and Biased Technical Progress, with others Resource Policy, 1991, Butterworths, U.K.
21. Dual Pricing, Rationing and Ramsay Commodity Taxation: Theory and an Illustration, with others The Developing Economies, Vol.28, No.3, 1990.
22. A Computational Procedure for Calculating Commodity Taxes with Illustrative Evidence from Indian Budget Data, with Ranjan Ray, Scandinavian Journal of Economics, 91(4), 1989.
23. People's Participation and Common Property Resources, with others, Economic and Political Weekly, December 23-30, 1989.

24. Distributional Equity, Optimal Commodity Taxes and Tax Reforms in India: Sensitivity Results of Some Simulation Exercises, with R. Ray Anvesak, Vol.18, Nos.1-2, June-Dec. 1988.
25. Sensitivity of Optimal Commodity Taxes to Relaxing Leisure Goods Separability and to the Wage Rate (1987), with Ranjan Ray, Economics Letters, 1987, Vol.24, pp.237-277
26. Prices for Public Electricity Supply in India: Efficiency, Distributional Equity and Optimal Structure, Economic and Political Weekly, October 10, 1987, 1762-1770.
27. Horizontal Equity and the Choice Between Expenditure and Income Taxes in India, (1987), Economic and Political Weekly, Vol.XXII, No.12, March 21, 1987.
28. Distributional Equity and Optimal Prices for the Public Sector: The Flexible Coefficients Case (1985), with R. Jha, Energy Economics, (1987) Vol.9, No.1, pp.46-54.
29. Optimal Non-linear Income Tax with Interdependent Utilities (1986) Journal of Quantitative Economics, with R. Jha, Vol.2, No.2, pp.213-220.
30. Interfuel Substitution and the Derived Demands for Inputs in the Manufacturing Sector of India (1986), Journal of Quantitative Economics, Vol.2, No.1, pp.119-135.
31. Economic Evaluation of Water Pollution Abatement: A Case Study of Paper and Pulp Industry in India, with Ajit K. Dasgupta, Indian Economic Review (1985) Vol.XX, No.2, pp.231-267.
32. On the Social Rate of Discount (1981). Readings in Economics, Essays in Honour of Prof. B. Sarveswara Rao, School of Economics, Andhra University Waltair.
33. Externality Abatement Technologies, Pigouvian Taxes and Property Rights, (1980), with Pulin Nayak, Working Paper No.223, Department of Economics, Delhi School of Economics, University of Delhi, Delhi, Indian Economic Review, Vol.XVII, No.II, pp.1-26.
34. On the Evaluation of Income Distributional Effects of Investment in Less Developed Regions of India (1980), Indian Economic Review, June 1980.
35. On the Evaluation of Regional Income Distributional Effects of an Irrigation Project (1979), in Sankhya, D. Series, Quantitative Economics, Vol.41, Parts I & II, 1979.
36. Methods of Project Analysis: A Review, Deepak Lal, Book Review (1974), Indian Economic Review, April, 1974.
37. Opportunity Cost of Public Investment (1972), Indian Economic Review, Vol.VII, No.2.

Some Current Working Papers

1. Hedonic Property Prices and Valuation of Benefits from Reducing Urban Air Pollution in India,
With S.C. Gulati, and A. Banerjee, Discussion paper no.62/2003, Institute of Economic Growth, Delhi-110007.
2. Health Benefits from Urban-Air Pollution Abatement in the Indian Subcontinent, With S. C. Gulati and A. Banerjee, Discussion Paper no. 62/2003, Institute of Economic Growth Delhi 7.
3. Economic Instruments in Assimilative Based Environment: A Case Study of Water Pollution Abatement by Industries in India, Discussion Paper Series No. 59/2002, Institute of Economic Growth, Delhi.
4. Cultural Heritage: A Fusion of Human Skill Capital and Social Capital, With Sucheta Murty, Discussion Paper Series No. 60/2002, Institute of Economic Growth, Delhi.
5. Environmentally Sustainable Income and Shadow Prices of Natural Resources, Working Paper Series No. E/211/2001, Institute of Economic Growth, Delhi-110007.
6. Environmental and Economic accounting for Indian Industry, with Surender Kumar, Working Paper Series No. E/212/2001, Institute of Economic Growth, Delhi-110007.
7. Environmental Values and National Income Accounting, Discussion Paper series No. 9/99, Institute of economic Growth, Delhi-110007, 1999.