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Areas of Specialisation

- Database of the Indian economy.
- Poverty, consumption expenditure and national accounts.
- Input-output analysis, Social Accounting Matrix and planning models.

Educational Qualifications

M.A.in Mathematics from Delhi University. Securing first class.

M.Stat from Indian Statistical Institute.

Work Experience

India Development Foundation (From 2003 till date)

Working as a Fellow at the India Development Foundation on problems relating to database of the Indian economy, social accounting matrix, tourist satellite accounts, poverty studies and other related problems. In this direction have published a paper on “Industrial statistics in India sources, limitations and data gaps” in EPW. Have critically reviewed important studies on poverty in India in a working paper of the IDE Published in Nov 2004. This paper focuses on the methodology used for estimating the poverty by individual researchers and the planning commission. It highlights the limitations of the studies and suggests improvement in the methodology (Particularly Planning commission). A Social Accounting Matrix for 2003- 04 has been prepared for the Planning Commission. The latest Input-Output table for 2003-04 has been constructed in collaboration with CSO. For UNCTAD, have completed a study on the Impact of Trade in services on the economy and particularly different section of the economy. Review of work regarding development of industries and poverty studies for the state of Arunachal Pradesh.

NCAER (from 1996 to 2003)

Worked as Senior Consultant with NCAER from 1996 on the project “Micro Impact of Macro Adjustment Policies” for a period of about 7 years. During this period the detailed reviews of the database of the Indian economy relating to labor, industry and the methodology of estimation of national product were done. A Social Accounting Matrix (SAM) was constructed for the Indian economy for 1994-95. This SAM consists of 60 production sectors, two factors of production namely labor and capital and six occupational categories of households separately for rural and urban areas. The SAM for 1994-95 was updated to 1997-98 and extended in a number of directions.

Different poverty studies carried out in India were critically reviewed. Based on the household surveys on income and expenditure a report was prepared, jointly with other members of the team and an analysis of household savings was done separately for different occupational categories of households and for formal and informal sector. Based on the household surveys, the poverty estimates were completed for different occupational categories separately for rural and urban areas for the year 1994-95

Planning Commission (from 1995 to 1996)

Worked in the Planning Commission as a Project Consultant during this period a critical review was done of models associated directly or indirectly with planning in India. The report submitted to the Planning Commission highlighted the improvements done in the models over time and their limitations, starting from the first plan model. The report discussed the aggregative as well as multi-sector models.

Indian Statistical Institute (from 1960 to 1994)

From July 1960 to October 1994 worked in the Indian Statistical Institute, New Delhi in various capacities, from January 1987 to October 1994 as Professor, During this period, worked on problems connected with input-output analysis, national accounts, consumption expenditure, official statistics, poverty and other related planning problems. Item wise consumption expenditure was worked out for the years 1957-58 to 1960-61 following the production approach. Prepared a 77 sector input-output table for the Indian economy for the year 1964-65. Using this table and applying consistency model the projections were made for the years 1970-71 and 1975-76. These results formed the basis for the sector wise target setting for the Fourth Five-Year Plan of India. A book on official statistics was written in 1972. This book surveys the different kinds of official statistics, their sources, coverage, the concepts and definitions used; gaps and shortcomings in the data and the methods for their improvement.

The second book deals with the historical developments in the field of construction of input-output tables in India. The book critically reviewed the methodology of some of the input-output tables, constructed for India. It discussed the methodology of various concepts used and the problems arising out of these concepts and the methods of solving these problems with special reference to aggregation, the types of prices, the product mix and the treatment of imports. The book also gives a brief account of the applications of the input-output techniques.

An incremental capital coefficient matrix has been constructed. This matrix is useful for dynamic models. A comparative study of the least and the most developed state was done in the framework of input-output analysis.

For estimating the incidence of poverty the Planning Commission was updating the 1973-74 poverty line for other years by using implicit price deflator obtained from national private consumption expenditure available at current and constant prices (same for rural and urban areas). These estimates suffered from many serious shortcomings. We have constructed new consumer price

index number using the structure of consumption expenditure as available from National Sample Survey Organization and the prices available from various official series, separately for rural and urban areas. Using these indices we have prepared alternative estimates of the incidence of poverty. The recently revised methodology of the Planning Commission is similar to the one suggested by us. I have been closely associated with the methodology adopted by the CSO for estimating various components of National Accounts starting with the series with base 1980-81 for the latest series with 1993-94 as base year. I was closely associated with advisory committee on national accounts. I was involved with construction of I-O tables for 1960-61 and 1964-65 and have associated myself with the updating of the latest two I-O tables for construction of SAM for 1994-95 (published in EPW) and 1997-98 which is to be published soon in the form of a book. While working on these topics one gets the details and weakness of sources and methodology of estimating different macro economic aggregations. I have written a few papers (the latest one being on industrial statistics) which discusses about database of various sectors and how these effect the reliability of the sector wise value added estimate. I am also conversant with the methodology used for preparing advance annual estimates as well as quarterly estimates of national products.

Consultancy

- Worked as consultant to the State Planning Institute, Government of Uttar Pradesh (U.P.). A report on the structure of the economy of U.P. was prepared under my guidance. Sector-wise targets were worked out for the Sixth Plan of the state by using a consistency model. At state level such an exhaustive model was used for the first time for plan formulation.
- A statistical manual on 'Input-Output Tables and Analysis' was prepared at the request of the World Bank. The main feature of the manual is that it gives the details of the different types of applications of the input-output techniques by various researchers and organization throughout the world.
- While working as consultant to National Productivity Council, prepared district level perspective plans for two districts of the state of Jammu and Kashmir.
- Prepared a 'Perspective Plan Model for All Round Development of Assam upto 2000 A.D.' for the government of Assam. In the course of the study an input-output table was constructed for 1982-83 for the state economy.
- While working as consultant to NCAER, prepared an input-output table for the Punjab economy for 1983-84.
- By using input-output techniques the economic impact of tourism in India has been studied. The evolutions of a tourism policy and changes in plan strategies over time have been analysed. This study was done at the request of the United Nations.

Teaching Experience

Taught Statistical methods, planning techniques and econometrics and its applications to the M. Stat. and J.R.F. students, Research Methodology to M. Phil students of Delhi School of Economics, Forecasting and Business Planning to M.B.E. students of Delhi University.

Teaching to the various courses conducted by the institute of Economic Growth, Indian Institute of Foreign Trade and the Central Statistical Organization.

Publications/Presentations

Published Work

- Preliminary Estimates of Total Consumption Expenditure in India 1957-58 to 1960-61. Papers on National Income and Allied Topics, Indian Association for Research in National Income and Wealth., Vol. III, 1965 (with S.M. Kansal).
- A Consistency Model of India's Fourth Plan. Sankhya series B Vol. 27, 1965. This paper was the result of a project taken by a team of research workers.
- Material and Financial Balances 1964-65, 1970-71 and 1975-76, Perspective Planning Division, Planning Commission, Sept. 1966.
- Structure of Indian Economy: 1964-65, Sankhya Series (B), Vol. 30, Part I, and II June 1968.
- Structure of Indian Economy 1964-65: Input Output Relations Among 144 sectors, Sankhya, Series (B) Part IV, December 1972.
- Indian Official Statistical Systems, December 1972, Statistical Publishing Society and the Indian Econometric Society.
- Structure of the Economy of Uttar Pradesh, 1970-71, State Planning Institute, Uttar Pradesh, 1975.
- Input-Output Tables for India: Concepts, Construction and Applications, Wiley Eastern Private Ltd., New Delhi, August, 1980.
- Component-wise Capital Output Ratios for the Indian Economy, Sankhya Series (B), Vol. 42, 1980.
- The Evolution of Planning Models in India Journal of Social Science and Humanities, The North Hill Eastern University, Jan-March 1986.
- On the Choice of Appropriate Consumer Price Indices and Data Sets for Estimating the Incidence of Poverty in India, The Indian Economic Review, Jan-June 1987 (with B.S. Minhas, S.M. Kansal and L.R. Jain).
- Data Base of Unorganized Manufacturing Industry: An Appraisal in 'Small Scale Enterprises in Industrial Development, Indian Experience', Edited by K.B. Suri, The Sage Publications India Pvt. Ltd., New Delhi, 1988.
- Measurement of General Cost of Living for Urban India 'All India and Different States', Sarvakshana, Vol. XXI No. 1, July 1988 (with B.S. Minhas, S.M. Kansal and L.R. Jain).
- Rural Cost of Living: 1970-71 to 1983 States and All-India, The Indian Economic Review Vol. XXV, No. 1, Jan-June, 1990 (with B.S. Minhas, S.M. Kansal and L.R. Jain).
- State-specific Urban Consumer Price Differentials Relative to All-India for Middle Fractils and Total Population: 1961-62 to 1983, The Indian Economic Review Vol. 25, No. 2, July-Dec., 1990 (with B. S. Minhas and L..R. Jain).

- Structure of the Punjab Economy Inter-Industrial Flows, 1983-84, Margin Vol. XXII No. 1, October-December, 1990.
- Economic structure of a least and Most Developed Region of India: A comparative study in an Input-Output Framework, Arth Vijnana Vol. XXXIII No. 2, June 1991 (with A. Sarma).
- State Input-Output Tables, Sources and Methods Margin Vol. XXIII No. 3, April-June 1992 (with A. Sarma).
- The Economic Impact of Tourism in India: ESCAP, United Nations (with G. Raveendran).
- Labour Statistics in India: A review, Margin Vol. 28, No. 4, July-Sept, 1996 (with B.K. Pradhan).
- Industrial Statistics in India Sources, Limitations and Data gaps, Economic & Political Weekly Vol. XXIII No. 21, May 23-29, 1998 (with B.K. Pradhan).
- Revised Index of Industrial Production, Economic and Political Weekly, Vol. XXXIII No. 29, July 21-27, 1998 (with B.K. Pradhan).
- Estimating the National Product: A review of Methodology, in Margin (Special Issue on Informal Sector) 1998.
- "Social Accounting Matrix - 1994-95 for India", (1999), *Economic & Political Weekly*, Nov
- 27. An earlier version of the paper presented at the MIMAP-India Workshop held on 12th-13th November, 1998 at NCAER, New Delhi (with B.K. Pradhan and A. Sahoo).
- "Income, Expenditure and Social Sector Indicators of Households in Rural and Urban India", earlier versions of the paper was presented at the MIMAP-India Workshop held on 12th-13th November, 1998 at NCAER, New Delhi, and MIMAP 3rd Annual Workshop during 2nd-6th November, 1998 at Hotel Himalaya, Kathmandu. *Economic & Political Weekly*, Vol. XXXV, No. 28 & 29, July 15, 2000 (with B.K. Pradhan, P.K. Roy & Shanta Venkatraman).
- "An Assessment of Poverty Studies in India with Special reference to economic reforms", *Pakistan Development Review*, Vol 37, No 4. Earlier versions were presented at the conference on Pakistan in the 21st Century organized by the Pakistan Institute of Development Economics, Islamabad, 28-31 January, 1999 and at the MIMAP-India Workshop held on 12th-13th November 1998 at NCAER, New Delhi (with B.K. Pradhan).
- House holds Savings and Investment Behaviour in India, Economic and Political Weekly Research Foundation, 2003 (with B. K. Pradhan, P. K. Roy and S. L. Shetty).
- Industrial statistics in India Sources, Limitations and data gaps, Economic and Political Weekly Research, Vol XXXIX, No 48, 2004
- Estimating poverty-Poverty studies in India with a focus on Economic Reforms, Bazaar chintan IDE India
- Social accounting matrix Construction Methodology and Applications published by Sage publications (with B.K Pradhan and Shalab.K Singh) Jan 2006.
- Domestic vs imported fibers in yarn exports, Margin 2005 (with R.Venkatesan)

- Social Accounting Matrix for India 2003-04, with Bhupesh Yadav, planning Commission, June 2006
- Gross Domestic Product from Services sector – Methodology, Data Sources and Limitations, with Bhupesh Yadav, Economic and Political Weekly, Vol XLII, No. 37, September 2007
- Employment Guarantees Programme and pro poor Economic development: Construction of Village SAM for Nana Kotda, Gujarat State, with Indira Hirway and Bhupesh Yadav, December 2007
- Compilation issues of input output table, with Bhupesh Yadav, December 2007. Presented at the Conference on Input-Output Analysis for Indian and the World Economy, TERI, New Delhi.
- Input Output Transactions table 2003-04, in association with Central Statistical Organisation, Ministry of Statistics and Programme Implementation, New Delhi, January 2008

2. Mimeographed Papers

- Statistical Requirements for Planning: A Monograph (in collaboration with Dr. Ashok Rudra and Pushpam P. Koolao), 1963.
- Structure of Indian Economy 1975-76 (with T. N. Srinivasan and V. O. Sabharwal), Discussion Paper No. 4 of Planning Unit, Indian Statistical Institute, 1963.
- Methods and Sources for Inputs Norms, Planning Unit, Indian Statistical Institute, New Delhi, 1964.
- Methods and Sources for Output Levels: 1960-61 and 1965-66, Planning Unit, Indian Statistical Institute, New Delhi, 1964.
- Capital output ratios in Indian Manufacturing Industries, submitted to the 11th Indian Econometric Conference, 1972.
- Structure of Capital in Indian Railways, Discussion Paper No. 102, Planning Unit, Indian Statistical Institute, 1974.
- Data Requirements for Planning at State Level Seminar on Methodology of State Planning, State Planning Institute, Lucknow, U.P. July, 1978.
- Methodology of State Level Planning – Some Important Issues and Suggestive Considerations (with L. S. Bhat and S. D. Tendulkar), Seminar on Methodology of State Planning; State Planning Institute, Lucknow U.P., July 1978.
- District Level Perspective Plan (1980-85) – Anant Nag and Poonch, Jammu and Kashmir (Two Volumes each), (This project was undertaken by the National Productivity Council on behalf of the Government of Jammu and Kashmir and I worked as the economic advisor for the project), 1983.
- Input-Output tables and Analysis 1985. This paper was written for the World Bank as their Statistical Manual.

- The structure of Assam's Economy, 1982-83, Government of Assam, 1989.
- A Perspective Plan of Assam up to 2000 A.D., (in collaboration with Department of Economics and Atul Sarma, Government of Assam, 1990.
- Survey of Indian Plan Models, submitted to Planning Commission, 1996.
- A Study of the household Saving Behavior (with B. K. Pradhan and P. K. Roy) presented at the Sewa-NCAER Workshop held on Nov. 12, 1998.
- Poverty Studies in India: A review (with B.K. Pradhan) presented at a workshop held on Micro Impact and Macro Adjustment Policies (MIMAP) on 12-13 Nov. 1998.
- Household Survey of Income, Expenditure and Social Sector Indicators in India: A study of Rural and Urban Areas (with B. K. Pradhan and V. Shantaraman) presented at a workshop held on MIMAP on 12-13 Nov. 1998.
- "Informal Sector in India: A study of Household Savings Behavior", 1999 (B. K. Pradhan & P. K. Roy), contribution to Informal Sector, Report No. 1, NCAER, New Delhi. An earlier version was presented at NCAER-SEWA Informal Sector Workshop held on 12th November 1998 at NCAER.
- Tourism Satellite Account for India, Sponsored by Ministry of Tourism and Culture. Worked as senior consultant for this study undertaken by National Council of Applied Economic Research (NCAER) 2005