

## BIO-DATA OF MANOJ PANDA

**Cameo:** Dr. Manoj Panda is Director of Institute of Economic Growth, Delhi since November 2012. He is currently a member of the National Statistical Commission. He earlier served as Director of the Centre for Economic and Social Studies (CESS), Hyderabad and as Professor at the Indira Gandhi Institute of Development Research (IGIDR), Mumbai. He has also spent a year at the Yale University, USA on a post-doctoral fellowship. He holds a Ph.D. in Economics from the Indian Statistical Institute. He has undertaken short term assignments for several international organizations including the World Bank, ADB and UNDP. His research areas span monitoring and analysis of macroeconomic trends and prospects, analysis of alternative trade and fiscal policy options based on macroeconomic models, issues in poverty and human development, linkages between macroeconomic policy and poverty reduction, and interaction of carbon emission with economic growth and its pattern.

### 1. Personal Data

**Name:** Manoj Kumar Panda

**Date of birth:** April 1, 1956.    **Nationality:** Indian.

#### **Current Address:**

Director, Institute of Economic Growth,  
University of Delhi Enclave, North Campus,  
Delhi-110007.

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### 2. Work Experiences

**November 2012 onwards:** Director, Institute of Economic Growth, Delhi

**December 2008-November 2012:** Director, Centre for Economic and Social Studies (CESS), Hyderabad

**Feb. 2001 – Dec-2008:** Professor, Indira Gandhi Institute of Development Research (IGIDR), Mumbai.

**Oct. 1992 – Feb. 2001:** Associate Professor, IGIDR, Mumbai.

**Oct. 1982 – Oct. 1992:** Economist and Senior Economist, National Council of Applied Economic  
Research (NCAER), New Delhi.

**Aug. 1995 - Aug. 96:** Visiting Fellow, Economic Growth Center, Yale University, USA on a Ford  
Foundation fellowship.

**Aug. 2001 - Aug. 2003:** Dean of Studies, IGIDR, Mumbai.

### 3. Education

**Ph. D.** (Economics), 1992, Indian Statistical Institute, New Delhi.

**M. A.** (Economics), 1976, Sambalpur University, Orissa, India.

**B. A.** (Econ Hons.), 1974, Sambalpur University, Orissa, India.

#### **4. Selected Short Term Assignments**

2012: Consultant to World Bank to examine some policy options for Indian Agriculture using a Regional Computable General Equilibrium Model for India

2007: Consultant to UN-ESCAP to write a paper on Role of Impact of Economic Growth in Achieving the Millennium Development Goals (MDGs) in Asia

2004: Consultant to Asian Development Bank to write a theme chapter for their annual publication “Key Indicators 2004” and to develop a computer simulation program for prediction of incidence of poverty.

2003: Resource person to UN-ESCAP for Workshops on Evaluation of Targeted Poverty Alleviation Programmes in Bangladesh, India, Indonesia and Philippines.

2002: Consultant to World Bank to write a background paper on Maharashtra Agriculture Policy Review.

2000: Consultant to Food and Agricultural Organisation to write a paper on Indian Experience with Uruguay Round Agreement on Agriculture.

#### **5. Areas of Research Interest in Economics**

##### **Macroeconomics and Applied General Equilibrium**

- Monitoring and analysis of macroeconomic trends and prospects
- Development and application of general equilibrium models suitable for developing countries, evaluation of alternative trade and fiscal policy based on growth, distribution and welfare impact.
- Construction and uses of Social Accounting Matrices
- Analysis of linkages among sectors and major agents in the economy.

##### **Poverty Measurement and Policies**

- Analysis of poverty and inequality trends over time, variations across socio-economic groups, equity and growth policies
- Determinants of changes in incidence of poverty, effects of stabilization and trade liberalization policies on poverty and associated compensatory policies
- Impact of economic growth on MDGs

##### **Environmental Issues in Economic Development**

- Interaction of energy, environment with economic growth
- Economic instruments for environmental targets
- Strategies for carbon dioxide reduction

#### **6. Selected Research Projects**

Involved with several projects over the years; a selected list of recent ones is the following:

- 1) Policy Options for Indian Agriculture: Analysis Using a Regional Computable General Equilibrium Model (World Bank, 2014) (with Ganesh Kumar). This is a first attempt to incorporate state level production and consumption decisions within the framework of a national general equilibrium model. Implemented for analysis of agricultural productivity, investment, and market reforms policies.
- 2) “Modeling Work on Eleventh Plan and Beyond” (Planning Commission, 2008-12) (with Ganesh Kumar). This involved building up of a CGE model India to analyse various current issues of interest to the Commission in the context of 11<sup>th</sup> and 12<sup>th</sup> Five Year Plans.
- 3) Economic Integration and External Shocks: Modeling Outcomes for India, (Carnegie Endowment for International Peace, Washington, D. C., 2007). The MDGs have taken centre stage in setting the global development agenda since 2000. Interesting debate continues to rage on the instruments to achieve these targets. Using cross-country data from the Asia-Pacific region, this paper examines the factors that affect some of the MDG indicators relating to poverty, education, gender parity and health, and quantifies the extent to which economic growth alone can help in achieving the MDG targets.
- 4) Pro-poor Macroeconomic Policy (UNDP, 2006): This study examines the relationship between macroeconomic policies and poverty reduction in India. Apart from overall GDP growth related policies, it considers its sectoral composition, other policies such as those related to government revenue, government expenditure, credit delivery systems, employment policies, trade liberalisation and analyses their possible impact on poverty.
- 5) Evaluation of Poverty Alleviation programmes (UN-ESCAP, 2004): This is a manual for *ex post* evaluation of poverty reduction programmes. The objectives of this manual are to provide guidelines for such a procedure and furnish examples of its application. The guidelines take into account various aspects such as targeting, income generation, poverty reduction, efficiency and financial sustainability.
- 6) Role of Agriculture: Poverty Reduction component (FAO, 2003): This paper aims at a reassessment of the role of agriculture on the poverty reduction process in India using both cross section and time series data for major states in India. It discusses trends in poverty in various states in India and draws attention to the need for regional and social group focus in the poverty reduction strategy in India. Examining the various channels through which agricultural growth influences rural poverty for low and high poverty states with the help of time series panel data at the state level, it finds that real wage and relative food price have strong and robust effects.
- 7) Growth and Equity Experience of India (UN-ESCAP, 1999): This study that formed part of a stock taking process of the policy lessons from the growth and equity experience of several Asian countries. It documented overall economic performance in national income and changes in its structure by broad sectors, trends in respect of inequality and poverty. It then investigates the linkages among growth, poverty and inequality and the impact of important policies on growth and equity to derive the policy lessons for promoting growth with equity.
- 8) Asian Response to a World Environmental Organisation (MacArthur Foundation, 1999): The paper examines the possible response to the formation of a World Environmental Organization (WEO) from an Asian developing country perspective. The response is necessarily affected by the perceived needs, costs and benefits of forming and joining such an organization as well as the nature of the agenda for the formation of WEO. The analysis in this paper is carried out by considering the socioeconomic profiles of various Asian developing countries and also examining their pressing environmental concerns in an overall context of their development priorities.
- 9) Modeling Framework for Sustainable Development (UN-ESCAP, 1999): This document considers various environmental problems that may be encountered during the process of

economic development, and demonstrate with applications how traditional analytical methods need to be extended and modified to address the relevant environmental and economic issues in an integrated way.

- 10) Effects of Agricultural Trade Liberalization (World Bank, 1996): This paper examines the effects of the trade liberalization measures undertaken in India on economic growth and identifies the possible losers and gainers in the liberalization process. It also investigates if the growth and poverty effects of trade liberalization to agriculture and manufacturing are in the same directions and if the effects are conditional upon certain exogenous factors like world prices or government expenditure policies.
- 11) General equilibrium Models for Short-run Forecasting and Policy Analysis (Project carried out at NCAER for Ministry of Finance, 1984-1992): This project sponsored by the Ministry of Finance, Government of India built up several versions of a general equilibrium model of India for forecasting and policy purpose. This in house model at the NCAER was used for tracking the macroeconomic effects at broad sectoral levels of likely developments in the economy of factors such as bad rainfall, taxation and expenditure measures of the government, changes in administered prices and food distribution policy

### **7. Membership of Selected Committees**

- Member, National Statistical Commission, since November 2015.
- Member, Steering Committee on Economic and Policy Research, Reserve Bank of India, 2010-2013.
- Member Editorial Advisory Board, Sarvekshana, Journal of National Sample Survey Organisation (NSSO), since 2008.
- Member, Governing Council, Madras Institute of Development Studies, Chennai, 2010-12.
- President, Orissa Economic Association, 2011.
- Member of Expert Group on Asset Price Monitoring System, Reserve Bank of India, 2009.

### **8. Teaching and supervision**

**Economy Wide Models:** It covered models such as Shoven-Whalley, Walrus-Casell, Dervis-de Melo-Robinson, Social Accounting Matrix, various closures, structure and applications of different structural and neoclassical types of models developed for India, building up of computer programs for some prototype models in GAMS to carry out simulation experiments for a term paper.

**Environmental Economics:** The emphasis here was on basic concepts and incorporation of economic logic to environmental problems. It covered topics like externality and instruments for solving it (taxation, quota, tradable permits, and property rights), optimal resource use over time, natural resource accounting, and environmental Kuznets curve.

### **Thesis Supervision**

**Ph. D:** Four students

**M. Phil:** One student

### **9. Awards**

- Ford Foundation Post-doctoral Fellowship 1996-97
- Junior and Senior Research Fellowship, Indian Statistical Institute, Calcutta, 1977-82
- National Scholarship by Government of India during college education, 1970-73

### **10. List of Publications**

#### **10.1 Papers in Journals**

1. "Social Welfare and Household Consumption Expenditure in India—2004-05 to 2011-12", *Economic and Political Weekly*, Vol XLIX, No 31, 2014 (with Bhaskar Dutta).
2. "Growth-Poverty Linkage in Orissa: A Reassessment", *Orissa Economic Journal*, Vol. 42, 2011.
3. "CO<sub>2</sub> Emissions Structure of Indian Economy", *Energy*, Vol. 34, Issue 8, 2009 (with Jyoti Parikh, A. Ganesh-Kumar, Vinay Singh).
4. "CO<sub>2</sub> Emission Reduction Strategies and Economic Development of India", *Margin – The Journal of Applied Economic Research*, Vol.1, No.1, January-March, 2007 (With N. Satyanarayan Murthy and Kirit Parikh)
5. "Price Changes and Some Underlying Aspects of Measurement of Poverty", *Journal of Quantitative Economics*, New Series, Vol. 2, No.1, 2004 (with Kali Rath).
6. "An Asian Perspective on a World Environmental Organization", *The World Economy*, Vol. 25, No.5, 2002 (with R. Jha and A. Ranade).
7. "Evaluating Quality of Budgets with a Composite Index", *Economic and Political Weekly*, Vol.37, No.13, 2002 (with Shashanka Bhide).
8. "Gender Bias in India", *Journal of Quantitative Economics*, Vol. 16, No.1, 2000 (with Bhaskar Dutta).
9. "Changing Poverty Scenario in Orissa", *Vision*, Vol.XIX, No.3-4, 2000.
10. "Agricultural Liberalization: Growth, Welfare and Large Country Effects", *Agricultural Economics*, Vol. 17, No.1, 1997 (with K. Parikh, N.S.S. Narayana and A. Ganesh Kumar).
11. "Economic Development, Poverty Reduction and Carbon Emission in India", *Energy Economics*, Vol.19, No.3, 1997 (with N. S. Murthy and J. Parikh).
12. "Economic Growth, Energy Demand and Carbon Dioxide Emissions in India: 1990-2020", *Environment and Development Economics*, Vol.2, No.2, 1997 (with N. S. Murthy and J. Parikh).
13. "Consumption Patterns by Income Classes and Carbon-dioxide Implications for India: 1990-2010", *International Journal of Global Energy Issues*, Vol.9, Nos. 4-5, 1997 (with J. Parikh and N.S. Murthy).
14. "Strategies for Agricultural Liberalisation: Consequences for Growth, Welfare and Distribution", *Economic and Political Weekly*, Vol.30, No.39, 1995 (with K. Parikh, N.S.S. Narayana and A. Ganesh Kumar).

15. "A Plan Model Incorporating Normative Consumption Targets", *Journal of Quantitative Economics*, Vol.8, 1992.
16. "Analysing Structural Changes Through SAM-based Computable General Equilibrium Models: Assessing Import Liberalisation Programme in India", *Economic Bulletin for Asia and the Pacific*, Vol.XLII, 1991 (with H. Sarkar).
17. "Poverty in Rural Orissa 1960-83", *Margin*, Vol.20, 1987.
18. "Fixing Income and Price targets for the Poor in India", *Journal of Development Economics*, Vol.20, 1986.
19. "Quantity-Price-Money Interactions in a CGE Model for India", *Margin*, Vol.18, 1986 (with H.Sarkar).
20. "A Comparative Study of Sixth and Fifth Plan Models", *Economic and Political Weekly*, Vol. XVII, No.35, 1982 (with K. C. Majumdar).
21. "Economic Growth in India - A Comparison of GNP and BNG (Basic Need Goods) Index Numbers", *Indian Economic Review*, Vol. XVII, 1982 (with S. K. Chakrabarti).
22. "Measurement of Incidence of Undernutrition", *Economic and Political Weekly*, Vol.XVI, No.31, 1981 (with S. K. Chakrabarti).
23. "Productivity Aspects of Wages in Food for Work Programme", *Economic and Political Weekly*, Vol.XVI, No.20, 1981.

## **10.2 Chapters in Books**

1. "Malnutrition and Food Insecurity in Odisha", in Pulin Nayak, Santosh Panda and Prasanta Pattanaik (ed.) "*The Economy of Odisha: A Profile*", Oxford University Press, 2016.
2. "Current Status of Environmental and economic Accounting: Review of Some Countries Experiences and Way Forward for India", in N. Ghosh, P. Mukhopadhyay, A. Shah and M. Panda (ed) "*Nature, Economy and Society: Understanding the Linkages*", Springer, 2016
3. "Macroeconomic Developments and Challenges for Growth" chapter in Mahendra Dev (ed) "*India Development Report 2015*", Oxford University Press, 2015.
4. "Macroeconomic Overview: The Growth Story", chapter in Mahendra Dev (ed) "*India Development Report 2012*", Oxford University Press, 2012.
5. "Global Economic Shocks and Indian Policy Response: An Analysis Using a CGE Model", chapter in Kirit S. Parikh (ed) "*Macro-Modelling for the Eleventh Five year Plan of India*", New Delhi, Planning Commission, Government of India and Academic Foundation, 2009 (with A. Ganesh Kumar).
6. "Economic Development in Orissa: Growth without Inclusion", chapter in R.K. Panda (ed) "*Orissa's Economic Development: Experiences and Expectations*", New Delhi, Serials Publications, 2009.
7. "Macroeconomic Overview", chapter in R. Radhakrishna (ed) "*India Development Report 2008*", Oxford University Press, 2008.
8. "India At 60: The Economy", chapter in "*CNF Year Book 2007 India At Sixty*", Contemporary News and Features and Academic Excellence, Delhi, 2007

9. "India", chapter in Bresciani, Fabrizio and Albero Valdes (ed) "*Beyond Food Production: The Role of Agriculture in Poverty Reduction*", Food and Agriculture Organization of the United Nations and Edward Elgar, 2007.
10. "Agriculture and Poverty Reduction", chapter in Shovan Ray (ed.) "Handbook of Agriculture in India", Oxford University Press, 2007.
11. "Macroeconomic Scene: Growth and Equity Perspectives", chapter in K. Parikh and R. Radhakrishna (ed): *India Development Report 2004-05*, Oxford University Press, New Delhi, 2005.
12. "Poverty in Asia: Measurement, Estimates, and Prospects", theme chapter for *Key Indicators 2004*, Asian Development Bank, Manila (with Rana Hasan).
13. "Some Aspects of Agriculture and Poverty Linkages in Maharashtra" in Ajit Karnik and L.G. Burange (ed.): *Perspectives on Maharashtra's Economy*, Himalaya Publishing House, Mumbai, 2004 (with Abhaysingh Chavan).
14. "Economic Growth and Poverty in 1990s: Did Orissa Benefit from the Reforms?", in R.K. Panda (ed.): *Reviving Orissa Economy*, A.P.H. Publishing Corporation, New Delhi, 2004.
15. "Prospects for Economic Growth", chapter in *Assam Development Report*, Planning Commission, Government of India, New Delhi, 2002.
16. "Macroeconomic Developments and Growth Prospects", chapter in K. Parikh and R. Radhakrishna (ed.): *India Development Report- 2002*, Oxford University Press, New Delhi, 2002.
17. "Growth and Distribution Under Trade Liberalization in India" in A. Guha, K. L. Krishna and A. K. Lahiri (ed.): *Trade and Industry: Essays by NIPFP-Ford Foundation Fellows*, National Institute of Public Finance and Policy, New Delhi, 2001(with J. Quizon).
18. "Economic Growth and Distribution: Long Term Scenarios", in K. Srinivasan and Michael Vlassoff (ed.): *Population-Development Nexus in India*, Tata McGraw-Hill Publishing Company Limited, New Delhi, 2001 (with Kirit Parikh).
19. "Agriculture, Trade and Food Security: India" in *Agriculture, Trade and Food Security: Issues and Options in the WTO Negotiations from the Perspective of Developing Countries, Volume II Country Case Studies*, Food and Agricultural Organisation, 2000 (with A. Ganesh Kumar).
20. "Growth with Equity: Policy Lessons from the Experience of India", in *Growth with Equity: Policy Lessons from the Experiences of Selected Asian Countries*, United Nations, New York, 1999 (ST/ESCAP/2007).
21. "Macroeconomic Developments: Assessments and Prospects", in Kirit Parikh (ed.) *India Development Report 1999*, New Delhi, Oxford University Press, 1999 (with K. Parikh and Gangadhar Darbha)
22. "Human Development in India", in S. Subramanian (ed.) *Measurement of Poverty and Inequality*, Oxford University Press, 1997 (with Bhaskar Dutta and Willima Wadhwa).
23. "Macroeconomic Scene: Assessment and Outlook", in K. Parikh (ed.) *India Development Report*, Oxford University Press, 1997 (with K. Parikh).
24. "Economic Development, Poverty Reduction and Carbon Emission in India", in J. Parikh, R. Culpeper, D. Runnals and J.P.Painuly (ed.) *Climate Change and North-South Cooperation*, New Delhi: Tata McGraw-Hill Publishing Company Limited, 1997 (with N.S. Murthy and J. Parikh).

25. "Consumption Pattern, Energy Demand and Carbon Dioxide Emissions in India: 1990-2020", in Structural Transformation Processes towards Sustainable Development in India and Switzerland, Zurich, INFRAS Publication, 1996 (with N.S. Murthy and J. Parikh).
26. "The Macroeconomic Scenario, 1994-95", in K.Parikh (ed.) Mid-Year Review of the Indian Economy, New Delhi: Konark Publishers Pvt. Ltd and India International Centre, 1995.
27. "A Short-term Structuralist Macro-economic Model for India: Applications to Policy Analysis", in Econometric Modeling and Forecasting in Asia, Development Paper No.9, UN-ESCAP, 1991 (with H. Sarkar).
28. "Resource Mobilization through Administered Prices in an Indian CGE" in Lance Taylor (ed.) Socially Relevant Policy Analysis: Structuralist Computable General Equilibrium Models for the Developing Countries, MIT Press, Cambridge, MA, 1990 (with H. Sarkar).

### **10.3 Books/Monographs**

1. "Nature, Economy and Society: Understanding the Linkages", (ed. with N. Ghosh, P. Mukhopadhyay and A. Shah), Springer, 2016.
2. "Employing India – Guaranteeing Jobs for the Rural Poor", (with Eduardo Zepeda, Scott McDonald and Ganesh Kumar), Carnegie Endowment for International Peace, Washington, D.C, 2013
3. "Generalising National Income Accounts for Measuring Green GDP of India: A Review of Indian and International Experiences" (with M.N. Murthy), CESS Monograph Series, No. 30, Centre for Economic and Social Studies, Hyderabad, 2013.
4. "India's Trade Policy Choices: Managing Diverse Challenges" (with Sandra Polaski, A. Ganesh Kumar, Scott McDonald and Sherman Robinson), Washington, D. C.: Carnegie Endowment for International Peace, 2008.

Helped UN-ESCAP in preparing the following monographs:

1. "A Manual for Evaluating the Impact of Targeted Poverty Reduction Programmes" (with Mahendra Dev), New York: UN, 2004 (ST/ESCAP/2332).
2. "Social Accounting Matrix Based Macromodels for Policy Analysis in Developing Countries: An application to the Socialist Republic of Viet Nam", New York: UN, 1995 (ST/ESCAP/1540)