Centre for Development Economics

The Twenty-Fifth Annual Report

September, 2018

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1 Introduction

The Centre for Development Economics (CDE) was established as a non-profit society in 1992 with an endowment grant from the Ministry of Finance, Government of India. It is located at the Delhi School of Economics. The Centre promotes collaboration with other institutions and individuals interested in economics and development policy. It acts as a research adjunct to the Department of Economics, augmenting the infrastructure and providing research support. It hosts visitors, organises conferences and workshops, houses faculty research projects, offers fellowships to masters and doctoral students, and engages with the government on matters of economic policy. The CDE also runs an active seminar series, holds occasional public lectures in collaboration with the Department of Economics, and publishes a working paper series to disseminate recent research by its members and their collaborators.

The Centre has well-equipped computer labs with software and hardware for meeting the research and training needs of M.A., M.Phil and Ph.D. programmes of the Department of Economics. It also has an archive of major secondary data sets and a library for use by local researchers.

The Centre is managed by a council of eight members, elected for a two-year term from among the faculty of economics. The regular members of the CDE are all faculty in the Department of Economics. Selected ex-faculty and other economists of eminence are co-opted as associate members. A list of all members are found at the end of this report.

The activities of the CDE are funded by income received from two endowment grants from the Ministry of Finance, from project income, and from contributions by individuals and institutions interested in promoting the goals of the Centre. In addition to the endowment grant in 1992, the Centre received a corpus fund from the Ministry of Finance in 2012 for hosting visitors and awarding fellowships for doctoral and post-doctoral research. It has also received project support from the various Government of India ministries, the European Union, the International Growth Centre, the International Development Research Center and the Bill and Melinda Gates Foundation, among others.

The composition of the current council is:

Rohini Somanathan Parikshit Ghosh

Executive Director Managing Director

Sugata Bag Mausumi Das

Secretary Treasurer

Sudhir A. Shah Dibyendu Maiti

Member Member

Surender Kumar TCA Anant

Member ex-officio (Head, Economics Department)

There are six regular staff to administer Centre activities and support programmes at the Delhi School of Economics:

Surjeet Singh Rajesh Papnai

Manager Senior Office Assistant

Mandeep Kaur Rohit Koli

Systems Administrator Junior Systems Administrator

Mritunjay Singh Bisht Ashok Kumar

Office Assistant Junior Office Assistant

Accounts are maintained by chartered accounts Jayaraman & Co. and are audited by the firm Khanna & Annadhanam.

2 Conferences and Workshops

Major events this year were the Winter School, a conference in honour of Professor Kaushik Basu, workshops in trade and development and in public economics. Each of these brought together researchers from national and international universities.

Winter School

The annual Winter School was held from December 13-15 at the Department of Economics. Each year, the Winter School combines plenary lectures by distinguished economists with parallel sessions where junior researchers present their work. The plenary speakers are leading researchers in their fields and give multiple lectures that survey their research areas and discuss ways of moving the field forward.

This year, we had four plenary speakers: Avinash Dixit (Princeton University), Sanjeev Goyal (University of Cambridge), Jorgen Weibull (Stockholm School of Economics) and Timothy van Zandt (INSEAD). There were ten parallel sessions that covered almost all sub-disciplines in economics. Over 100 faculty, policy makers and advanced doctoral students from within and outside India presented their research.

Podcasts of plenary lectures are available at http://econdse.org/winter-school-2017-lectures/

Conference in honour of Kaushik Basu

Professor Kaushik Basu, currently the C. Marks Professor of International Studies and Professor of Economics at Cornell University, spent most of his early career as a faculty member of the Delhi School of Economics. He was also the founding director of the Centre for Development Economics. Professor Basu turned 65 last year, and a one-day conference was organized on 17th December to celebrate and honour his intellectual contributions. The day began with four invited special lectures by renowned economists: Joseph Stiglitz (Nobel Laureate, 2001), Avinash Dixit, Debraj Ray and Jorgen Weibull. This was followed by a panel discussion on Policy Advice: The role of politics and economics, moderated by Kaushik Basu, with Celestin Monga, Jaime Saavedra and N.R. Narayana Murthy as panelists.

In the evening, former Prime Minister Dr. Manmohan Singh relased a festschrift in honor of Professor Basu, edited by two of his former doctoral students, Ajit Mishra and Tridip Ray. Contributors to the volume include his colleagues, collaborators and students. Ranjan Ray, S. Subramanian, Garance Genicot and Ashwini Deshpande paid tributes to Professor Basu's mentorship.

Podcasts of plenary lectures are available at http://cdedse.org/kaushik-basu-65/

Trade and Development Workshop, October 2017

This one-day workshop focussed on recent developments in trade theory and their implications for development policy. It was jointly organized by the CDE and the Centre for WTO Studies at IIFT on 23rd October 2017. Participants at the workshop included researchers, students and practitioners working in the field of trade and development. The Workshop concluded with a panel discussion with panelists T S Vishwanath (Principal Advisor, APJSLG Law Offices on Trade Policy), Andreas Bauer (International Monetary Fund, New Delhi Office), Jayant Dasgupta (ExSecretary. PM's Economic Advisory Council and Former Ambassador, WTO), Manoj Pant (Director, Indian Institute of Foreign Trade) and Swati Dhingra (Asst. Professor, London School of Economics). The discussion touched upon a variety of issues related to globalisation and related areas such as international labour mobility and Brexit.

Conference on Economics of ICT, Digital Divide and Development, February 2018

The international conference on Economics of ICT, Digital Divide and Development was organised by the CDE in collaboration with Norwegian Institute of Foreign Affairs and TIK Centre for Technology, Innovation and Culture, University of Oslo. The conference dealt with a varied range of issues revolving around Information and Communications Technology (ICT). The research presented during the two-day conference discussed issues such as the new challenges posed by technology in the form of securing individual and institutional rights, the functioning of the markets for ICT goods and services and, the disparity in access and use of ICT across individuals of different income and social groups. Scholars from both Indian and international institutions came together to present their research with around twenty papers being presented in total. Arne Melchior (Head, International Economics Group, NUPI, Oslo) and Fulvio Castellacci (Director, Centre for Technology, Innovation and Culture, University of Oslo) also attended and presented their works.

Public Economics Workshop, March 2018

The Public Economics Workshop was jointly organized by the CDE and Centre for Research on the Economics of Climate, Food, Energy, and Environment (CECFEE), Indian Statistical Institute, Delhi on 20 and 21 March, 2018 at the Department of Economics, DSE. There were six sessions spread over the two days, on Public Goods and Collective Action, Agriculture, Redistributive Policy, Institutions and Inequality, Environment, Health and Education. During part of the workshop, participants broke into smaller thematic discussion groups. This was particularly useful for graduate students as it gave them an opportunity to discuss their research ideas with eminent international experts from their respective fields in a more relaxed setting.

At the end of the first day, Mr. Atul Kumar Tiwari, Joint Secretary at the Ministry of Rural Development presented a summary of recent innovations in data systems being developed in the Ministry to help monitor development programs. The Workshop concluded with a panel discussion on 'International Perspectives in Public Service Delivery'. The panelists were: Ms.Riju Bafna, an IAS officer posted as the Sub-Divisional Magistrate in Madhya Pradhesh; Jakob Svensson of Stockholm University; Emmanuel Jimenez of the International Initiative for Impact Evaluation; and Jintao Xu from Peking University. The discussion was moderated by Bharat Ramaswami from the Indian Statistical Institute. Panelists discussed specific problems of service delivery in an area in Madhya Pradesh as well as broader questions such as the appropriate methodology for impact evaluation.

3 Public Lectures and Seminars

The CDE organised four public lectures. The first was on July 20 by Anirudh Krishna (Duke University) who spoke on his recent book The Broken Ladder - The Paradox and the Potential of Indias One Billion. On February 15, Poonam Gupta from the World Bank spoke on India's Growth Story. On March 22, Arvind Subramanian, Chief Economic Adviser to the Government of India held an interactive session on Economic Survey 2018 and Beyond. The fourth lecture was on March 26 by Ramesh Chand (Member, NITI Aayog) on the Challenges facing the Agricultural Sector.

The complete list of seminars is enclosed in the Annexure.

4 Visitors and Fellowships

The CDE hosted Jean Dreze, Neha Gupta, Veronique Gille and Rajiv Sethi.

Post-Doctoral Felllowship

The CDE instituted a post-doctoral fellowship in 2015. This fellowship has been offered in collaboration with the Institute of Economic Growth (IEG) since 2017. The two institutions jointly decided that the CDE would provide financial support for the selected candidate and the IEG would offer accommodation on its campus. The advertisement for the position for the current year has been floated. Recent PhD graduates as well as those who have submitted their PhD thesis (but are yet to be awarded their degree) are eligible. To add to the diversity of the institution, candidates from institutions other than the Delhi School of Economics are encouraged to apply. The fellowship helps the candidate engage in research before holding a formal academic position. The fellowship for 2017-2018 was awarded to Chandril Bhattacharya. Chandril completed his doctoral research at the Indian Statistical Institute, Kolkata. He was selected from among 60 applications received for this position. He is now part of the faculty of the Centre for Development Studies, Trivandrum.

Other Fellowships

The CDE offers monthly stipends to meritorious doctoral candidates who are not in receipt of other forms of support. The fellowship is offered to one student from each cohort upto five years.

A scholarship fund was established in 2012 in memory of Professor Suresh Tendulkar. The endowment for the fund was created with contributions from the family of late Professor Tendulkar, Professor T. A. Bhavani and selected alumni from the 1981 graduating batch of masters' students at the DSE. The fund is housed in the CDE and scholarships are awarded in consultation with the Department of Economics.

Krishna Raj Travel Fellowships

In 2006, the Sameeksha Trust established the Krishna Raj Summer Travel Fellowships, in memory of the longest serving editor of Economic and Political Weekly (EPW). It has been housed in CDE since its initiation. Under this programme, MA students from Economics, Sociology and Geography are invited to apply for fieldwork-based short research projects, either individually or in groups. Inter-disciplinary research collaborations are particularly encouraged. This research is conducted in the summer vacation in between the MA programme, followed by a written report and presentation.

Some of the best papers from this fellowship have been published in the EPW over the years.

The reports for the 11 fellowships that were awarded during the summer of 2017 have been received and are listed below:

	Authors and Department	Topic
1	Aayushi Verma (Sociology), Akshay Garg (Economics), and Grace George Sam (Economics)	Kinnars in Delhi: Traditional Occupation of Begging
2	Andrew DeSouza and Srijan Butola (Sociology)	Caste and the Formal Structure: A Case Study of the Formalised Garbage Collection Workers in Shimla
3	Antra Sharma, Anhad Hundal and Aparna Bhaumik (Sociology)	Articulating Intersectionality in the Organizing of the Delhi Queer Pride Parade
4	Anshu Agarwal, Aparna Bharwaj, R.Radhika, Rajat Kumar Sonkar (Sociology)	Quest for Survival : A study of unique agricultural practices in the backdrop of floods in Majuli
5	Jotirmay Nirjhar (Sociology)	Farmers Perspectives on Organic Agriculture
6	Karan Menon, Sachin Saurabh, Sweta Chakraborty, Hena Tokas (Sociology)	Cult of God-men and the reasons behind.
7	Dishi Aggarwal and Prithvi Adhikary (Economics)	Pathways to Homelessness and the contribution of shelter homes to solve the problem: A Study based on Delhi Homeless
8	Jasmine Bhalla, Upali Bhat- tacharya, Priya Nareshchandra Gupta (Sociology)	Ethnographic Study of the Weekly Bazaars in Delhi
9	Apurba Goswami and Sadaf Wani (Sociology)	An ethnographic study of Banabibi Palagaan performers in Sunderbans
10	Saurabh Verma and Sumit Kumar (Sociology)	Untouchability and the Market Economy (An Ethnographic study of Antkadih Village, District Giridih, Jharkhand)
11	Nikita Sangwan (Economics)	Analysing The Impact Of The Delhi Ladli Scheme On Academic Performance And En- rolment In Higher Education

5 Research Projects

1. India's Economic Development: Informing Economic Policy Choices

Funding agency: Ministry of Finance, Government of India

Project tenure: 2016 - 2018

PIs: Ashwini Deshpande (CDE), Anirban Kar (CDE), Deepti Goel (CDE), Mausumi Das (CDE), Subrata Guha (JNU), Parikshit Ghosh (CDE), Abhijit Banerji (CDE) and J. V. Meenakshi (CDE)

The project included research on issues central to the current economic policy initiatives. The research topics ranged from agriculture and nutrition, land acquisition, education, electricity pricing and groundwater use, social identity, and clientelist politics. The research output was delivered in the form of 6 papers, each analyzing a question of policy importance.

The paper titled "The Effect of Electricity Pricing on Groundwater-Based Agriculture: Evidence from a Natural Experiment in West Bengal" analyzed a reform wherein the electric pumps were metered and charged per unit of power, in terms of its impact on food security and equity. "Does Diversification in Agricultural Production Translate into Diversified Rural Diets?" was another paper that dealt with issues in agriculture. The paper investigated the causes of limited dietary diversification in the presence of agricultural diversification. Continuing on this theme, "Compensation and Rehabilitation Policy for Land Acquisition" explored trading mechanisms (procedures to allocate or reallocate land, along with payment schemes), that will result in the efficient transfer of land while at the same time leaving all parties to the transaction satisfied.

Switching to education, the paper on "Role of Education in Growth and Development: Channels Beyond Labour Productivity" argued that evaluating the role of education solely through its effect on labour productivity is parochial. For instance, better- educated citizens are able to make better consumption and investment choices, as well as better choices for their children. The paper models these other pathways, outlines their growth implications, and explores empirical consequences as well.

"Caste Identity and Institutions: Perceptions About Remunerative Earnings from Self-Employment in India" dealt with issues surrounding social identity. The paper analyzed whether, controlling for factors such as education level, traditionally disadvantaged groups have lower benchmarks for what they consider adequate remuneration than the general population. Lastly, "Clientelist Politics and Local Governance" tried to understand how clientelism can be a potential tool used by incumbent parties to consolidate their hold on power, sway votes in their favour, thus leading to a decline in the effectiveness of political competition altogether

2. Choice, Constraint and Gender Dynamics of Labour Markets in West Bengal

Funding agency: Economic and Social Research Council (ESRC), UK

Project tenure: August 2016 - July 2019

PIs: Ashwini Deshpande (CDE) and Naila Kabeer (LSE)

The project focuses on West Bengal as a case study for exploring the factors that differentiate labour force participation behaviour by men and women with a view to better understand the recent decline in female participation rates. The proposed research will seek to address research questions such as what combination of social norms and economic motivations help to explain how men and women engage with the labour market in West Bengal and how this varies for men and women from different socio-economic groups. The project will draw out concrete policy implications from this analysis. Quantitative data from a household survey in seven districts have been collected, and preliminary findings from this survey have been presented at a few seminars. In-depth qualitative interviews are currently underway.

3. Public Policy Research Support Grant

Funding agency: Bill and Melinda Gates Foundation

Project tenure: November 2017 - October 2020

PIs: Mausumi Das, Parikshit Ghosh, Sudhir Shah and Rohini Somanathan

This grant aims at bringing available technical knowledge to policy analysis in India. Those engaged in basic research in economic theory and statistical analysis typically have little to do with those designing and executing policy. Yet, effective policy-making requires an understanding of the incentives and the behavior of those responding to new policies. The hub will aim to facilitate greater exposure to frontier research for graduate students and researchers, provide training for teachers and bureaucrats and create a forum where academics and practitioners working in different policy-relevant areas can share and aggregate their expertise and research findings.

Over the coming three years, the social research hub has two specific goals for which a number of activities are planned. The first is to build the capacity for rigorous analysis of public policy questions within teams of policy makers, researchers and Ph.D students in Indian universities. The second is to fund a number of theoretical and empirical projects which will together improve our understanding of public service delivery in India.

4. Disaggregated Industry Level Productivity Analysis for India: The KLEMS Approach

Funding agency: Reserve Bank of India

Project tenure: January 2015 - December 2019

PIs: K. L. Krishna (CDE), Deb Kusum Das (Ramjas College, University of Delhi), B N Goldar (IEG), Suresh Aggarwal (University of Delhi) and Abdul Azeez Erumban (The Conference Board, Brussels)

The project aims at the measurement and analysis of factor productivity in 27 industries comprising the Indian Economy from the year 1980-81 onwards. The KLEMS productivity methodology developed by Professor Dale Jorgenson (Harvard University, Cambridge, USA) and his associates, as part of the World KLEMS Initiative inaugurated at Harvard in 2010 and implemented in many countries across the globe is being exploited for the Indian economy. Data sets on measures of output and factor inputs for the years 1980-81 onwards are being constructed for the 27 industries, broad sectors and the total economy, using official data sources, such as NAS (National Accounts Statistics), ASI (Annual Survey of Industries), NSS Employment-Unemployment Surveys, for use in the project. This is a three year project, 2015 to 2017, funded by the Reserve Bank of India. Presentations of the ongoing research on such themes have been made by the team members at the 4th Asia KLEMS Conference held in Tokyo on July 31 and August 1, 2017. Two presentations were made in June 2017 at the Second World Comparative Economics Congress at St. Petersburg, Russia.

5. ICT, Responsible Innovation and Well being

Funding agency: Norwegian Institute of International Affairs and TIK, University of Oslo

Project tenure: May 2017 - June 2018

PIs: Dibyendu Maiti (CDE) and Uday Bhanu Sinha (CDE)

Over the past few decades all sorts of human activities around the world, as an individual, institution or group, have turned out to be increasingly influenced by the proliferation and continuous innovation in the domain of information and communication technologies (ICTs). One cannot imagine life without computers, cellular phones, and fast and secure internet connections. On other fronts, digitalisation has already marked substantial transformation for manufacturing, delivering goods and services, governance and monitoring grievances and inefficiencies in all the leading sectors. It helps to raise automation, bring down the level of physical hardship involved, reduce information gaps between agents engaged in the same activity, cut down geographical barriers, increase accuracy and efficiency, reduce burden of governance and improve the overall quality of leisure. At the same time, this has exposed new challenges and risks in securing individual and institutional rights, work-life balance,

privacy, security, the flow of personal data, and cyber-crime. This near-universal transformation brought about by innovations in ICT has significant impacts on economic outcomes (e.g., income, trade, productivity, sectoral dynamics, growth, and employment), development outcomes and welfare. What are the resulting effects? Are they all favorable? What are the transmission mechanisms? Moreover, the supply of ICT goods and services are regulated by a limited number of domestic companies (often under joint ventures) or imports of intermediate inputs and technology through multinational companies, whereas the distribution takes place through a long chain of retailers, along with informal agents. How do such markets work for the production, imports and distribution? Who benefits more? Are they conducive for innovation and diffusion in the sector for the larger sections of the population in the domestic markets of a typical developing economy? This project aims to explore some of those issues with special reference to India and the developing world.

6. Growth, Structural Change and Female Employment: Linkages and Policy Issues

Funding agency: IDRC through University of Gottingen

Project tenure: October 2015 - September 2017

PIs: Rohini Somanathan (CDE) and Mausumi Das (CDE)

Many women in low-income countries are still self-employed in agriculture and their long-term economic empowerment will depend on their ability to participate in the labor market and work in salaried non-agricultural jobs. Economic growth and structural change has helped remove barriers in labor markets, but in many contexts women have not been able to adequately benefit from these opportunities. This research program, brings together a set of researchers across multiple universities and is focused on understanding heterogeneity in the impact of growth and structural change on women's employment opportunities. The project combines theoretical insights from models of occupational choice with empirical patterns of female labor-force participation and time allocation. The project also supports the gender-related dissertation work of Garima Agarwal and Divya Gupta who are doctoral students at the Delhi School of Economics.

7. International Econometric LINK India Model

Funding agency: Reserve Bank of India

PIs: Pami Dua (CDE) and N. R. Bhanumurthy (NIPFP)

Over the past one year, the model simulations were undertaken twice and submitted to UN-DESA for their flagship publication - World Economic Situation and Prospects report. The Indian Economic Outlook for 2018-19 and 2019-20 was also presented at the Project LINK meeting jointly organised by the UN-ECLAC, Santiago, Chile, UN-DESA, New York and University of Toronto, Canada during 5th to 7th September, 2018.

6 Faculty Publications

The members of the CDE have published journal articles, book chapters, and books on a wide range of topics. In addition, the CDE has an active working paper series to disseminate research by its members and visitors. Publications and working papers are listed in the Annexure and are available for download from the CDE webiste: www.cdedse.org.

7 Annexure

Faculty

Current Faculty Associate Members

T.C.A. Anant G. Balachandran

Sugata Bag O. P. Bhardwaj

Abhijit Banerji R.K. Das

Aditya Bhatacharjea — Jean Dreze

Mausumi Das Nira Goyal

Ashwini Deshpande Puran B. Mongia

Pami Dua Badal Mukherji

Parikshit Ghosh Pulin B. Nayak

Deepti Goel B. L. Pandit

Shreekant Gupta R. N. Pradhan

Anirban Kar Om Prakash

Sunil Kanwar Ranjan Ray

Surender Kumar Partha Sen

Dibyendu Maiti Sanjay Subramanyam

J.V. Meenakshi K. Sundaram

Param Jit V Pandit

Santosh Panda Kaushik Basu

Sudhir A. Shah K L Krishna

Ram Singh

Uday Bhanu Sinha

Rohini Somanathan

Journal Articles

Bag, S. and Seth, S., 2017. "Does It Matter How We Assess Standard of Living? Evidence from Indian Slums Comparing Monetary and Multidimensional Approaches". *Social Indicators Research*, pp.1-40.

Banerji, A., Chowdhury, S., De Groote, H., Meenakshi, J.V., Haleegoah, J. and Ewool, M. 2018. "Eliciting Willingness to Pay through Multiple Experimental Procedures: Evidence from Lab-in-the-Field in Rural Ghana". *Canadian Journal of Agricultural Economics*.

Bhattacharjea, A. and De, O., 2017. "Anti-cartel Enforcement in India". *Journal of Antitrust Enforcement*, 5(2), pp.166-196.

Bhattacharjea, A., 2017. "Sylvania's Indian Precursor and its Legacy". *Review of Industrial Organization*, 51(2), pp.173-191.

Bhattacharjea, A., De, O. and Gouri, G., 2018. "Competition Law and Competition Policy in India: How the Competition Commission has Dealt with Anticompetitive Restraints by Government Entities". *Review of Industrial Organization*, pp.1-30. Forthcoming.

Balakrishnan, B., **Das, M.** and Parameswaran, M. 2017. "The Internal Dynamics of Indian Economic Growth. *Journal of Asian Economics*. 50,46-61.

Arora, P. M., **Das, M.** and Dastidar, A.N. 2018. "Mortgage Loans, Risky Lending and Crisis: A Macroeconomic Analysis. *Economic and Political Weekly*.

Deshpande, A., Goel, D. and Khanna, S., 2018. "Bad Karma or Discrimination? Male-Female Wage Gaps among Salaried Workers in India". *World Development*, 102, pp.331-344.

Deshpande, A., Desrochers, A., Ksoll, C. and Shonchoy, A.S., 2017. "The Impact of a Computer-based Adult Literacy Program on Literacy and Numeracy: Evidence from India". *World Development*, 96, pp.451-473.

Deshpande,A and Ramachandran,R. 2017. "Dominant or Backward? Political Economy of the Demand for Quotas by Jats, Patels and Marathas". *Economic and Political Weekly*.

Dua, P. and Suri, R., 2018. "Exchange Rate And Central Bank Intervention In India: An Empirical Analysis". *The Journal of Developing Areas*, 52(2), pp.127-143.

Dua, P. and Kapur, H., 2017. "Macro Stress Testing of Indian Bank Groups". *Margin: The Journal of Applied Economic Research*, 11(4), pp.375-403.

Dua, P. and Kapur, H., 2018. "Macro Stress Testing and Resilience Assessment of Indian Banking". Journal of Policy Modeling, 40(2), pp.425 - 475.

Dua, P., 2017. "Macroeconomic Modelling and Bayesian Methods". *Journal of Quantitative Economics*, 15(2), pp.209-226.

Dua, P and Suri,R. "Inter-linkages between USD-INR, EUR-INR, GBP-INR and JPY-INR Exchange Rate Markets and the Impact of RBI Intervention", *Journal of Emerging Market Finance*. Forthcoming.

Goel, D. and Lang, K. 2017. "Social ties and the job search of recent immigrants". ILR Review.

Goel, **D**. and Gupta, S. 2017. "The Effect of Metro Expansions on Air Pollution in Delhi". *The World Bank Economic Review*, 31 (1), pp.271-294.

Kanwar, S. and Shailu Singh, 2018. "The Innovation-R&D Nexus in an Emerging Economy: Evidence from the Indian Manufacturing Sector", *Australian Economic Papers*, 57(1), 35-54,

Jain, R. K. and **Kumar**, S. 2018. "Shadow Price of CO2 Emissions in Indian Thermal Power Sector". *Environmental Economics and Policy Studies*,pp.1-24. doi: 10.1007/s10018-018-0218-9

Kumar, S and Shetty, S. 2018. "Corporate Participation in Voluntary Environmental Programs in India: Determinants and Deterrence". *Ecological Economics*. vol. 147, pp. 1-10.

Kumar, S and Shetty, S., 2018. "Does Environmental Performance Improve Market Valuation of the firm: Evidence from Indian market". *Environmental Economics and Policy Studies*, 20(2), pp. 241-260.

Kumar, S. 2018. Book Review (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), *Journal of Economic Literature*, 56(1).

Maiti, D. 2017. "Anti-Dumping, Competitiveness and Welfare: A Study with special reference to India", *Indian Economic Review*, 53(1): 1-24

Mittal,N and Meenakshi,J.V..2018. "Does the ICDS Improve the Quantity and Quality of Childrens Diets? Some Evidence from Rural Bihar". *Journal of Development Studies*. pp.1-16. doi: 10.1080/00220388.2018.1487054

Brauw, A., Eozenou, B., Gilligan, D., Hotz, C., Kumar, N. and **Meenakshi, J.V.** .2018. "Biofortification, Crop Adoption and Health Information: Impact Pathways in Mozambique and Uganda". *American Journal of Agricultural Economics*, 100(3), pp.906-930

Panda, S. C.2018. "Rational Choice with Intransitive Preferences". Studies in Microeconomics. Sage.

Shah, S.A. 2017. "How risky is a random process?". *Journal of Mathematical Economics*, 72, pp. 70-81.

Schfer, H-B and **Singh R**. "Takings of Land by Self-interested Governments: Economic Analysis of Eminent Domain, *Journal of Law and Economics*, (61). Forthcoming.

Mukherjee, A. and Sinha, U.B., 2018. "Export Cartel and Consumer Welfare". Review of International Economics.

Cao, J., Mukherjee, A. and **Sinha, U.B.**, 2018. "Firm-Asymmetry and Strategic Outsourcing". *International Review of Economics and Finance*, 53, pp.16-24.

Kabiraj, T. and Sinha, U.B., 2017. "Outsourcing Under Incomplete Information". *Indian Growth and Development Review*, 10(1), pp.3-15.

Kumar, H and Somanathan, R. 2017. "Creating Long Panels using Census Data: 1961-2001", Economic and Political Weekly, 52(29), pp.105-109.

Afridi, F., Barooah, B. and **Somanathan, R.**, 2018. "Improving Learning Outcomes Through Information Provision: Experimental Evidence from Indian Villages". *Journal of Development Economics*. doi: 10.1016/j.jdeveco.2018.08.002.

Almas, I., Anders, K. and **Somanathan**, R. 2018. "A Behavior-based Approach to the Estimation of Poverty in India". *Scandanavian Journal of Economics*. doi: 10.1111/sjoe.12282.

Baland, J.M., Gangadharan, L., Maitra, P. and **Somanathan, R.**, 2017. "Repayment and Exclusion in a Microfinance Experiment". *Journal of Economic Behavior and Organization*, 137, pp.176-190.

Baland, J.M., **Somanathan, R.** and Vandewalle, L. 2018. "Socially Disadvantaged Groups and Microfinance in India" (with Jean-Marie Baland and Lore Vandewalle), *Economic Development and Cultural Change*. doi: 10.1086/698310.

Baland, J.M., Demont, T., **Somanathan, R.** and Tenikue, M. 2018. "Child Labor and Schooling Decisions among Self-Help Groups Members in Rural India" (with Jean-Marie Baland, Timothee Demont and Michel Tenikue), *Economic Development and Cultural Change*.

Book Chapters

Bhattacharjea, A., 2018. "Predatory Pricing in Platform Competition", iin Ashish Bharadwaj, Vishwas H. Devaiah and Indranath Gupta (eds.), *Multidimensional Approaches Towards New Technology: Insights on Innovation*, *Patents and Competition*, Springer.

Bhattacharjea, A., 2017. "Threshold Effects of Indian Labour Laws: A Critical Review of Some Recent Research", in Uma Kapila (ed.), *India's Economy: Pre-Liberalisation to GST: Essays in Honour of Raj Kapila*. New Delhi: Academic Foundation.

Deshpande, A., 2018. "Stigma or Red Tape? Roadblocks in the Use of Affirmative Action", in *The Empire of Disgust: Prejudice, Discrimination and Policy in India and the US*, edited by Zoya Hassan, Aziz Huq, Martha C. Nussbaum. Oxford University Press, New Delhi. Forthcoming.

Deshpande, A. 2018. "Foreign Direct Investment and Inter-group disparities in India", in *The Right to Development: Making it Work in India*, edited by Ashok Kotwal, Moshe Hirsh and Bharat Ramaswami. University of British Columbia Press. Forthcoming.

Dua, P. 2017. "Some Recent Trends in Population, Employment and Poverty in India: An Analysis", in *Perspectives on Economic Development and Policy in India*, with KL Krishna, Pandit, V., and Sundaram. Springer, Singapore.

Kumar, S. 2018. "Air Pollution and Traffic Congestion in Urban India", in Cities of Dragons and Elephants: Urbanization and Urban Development in the Peoples Republic of China and India,

edited by G. Wan and M. Lu. Oxford University Press, Oxford. Forthcoming.

Kumar, S. 2018. "Urbanization and Water Supply and Sanitation in India". Cities of Dragons and Elephants: Urbanization and Urban Development in the Peoples Republic of China and India, edited by G. Wan and M. Lu. Oxford University Press, Oxford. Forthcoming.

Dutta, S. Maiti, D. and Haldar, A. 2017. "Recruitment Procedure and Status of Workers: An Analysis of Indian Industries in Two States of India", in *Human Resource Development: Issues and Challenges*, edited by S.Bhui. Abhijit Publications, Kolkata.

Singh R. 2018. "Economic Efficiency in *Encyclopedia of Law and Economics*, edited by A. Marciano and G. Ramello. Springer, New York, NY

Singh, R. "Land for Industrialization and Urbanization: An Enquiry into Regulatory Constraints", in *Urban Land*, edited by Amitabh Kundu. Deutsche Gesellschaft fr Internationale Zusammenarbeit (GIZ), New Delhi. Forthcoming.

Singh R. 2018. "Is Land a Bottleneck for Economic Development in India? in *Economic Theory and Policy amidst Global Discontent*, edited by Ananya Ghosh Dastidar, Rajeev Malhotra and Vivek Suneja. Taylor and Francis, New Delhi.

Books

Bag, S., 2018. "Economic Analysis of Contract Law: Incomplete Contracts and Asymmetric Information". Springer.

Dua,P. "Macroeconometric Applications of the Indian Economy", Oxford University Press. Forthcoming.

Gupta, S., "Environmental Policy in India: The Political Economy of Social Choices" (with John Adams), Edward Elgar Publishers, Cheltenham, UK, (in progress).

Somanathan, R. 2017. "Poverty and Income Distribution in India" (co-edited with Abhijit Banerjee, Pranab Bardhan and T.N. Srinivasan), Juggernaut.

Working Papers

No.	Month	Authors	Titles
276	June, 2017	Raushan Kumar	Price Discovery In Some Primary Commodity Markets In India
277	June, 2017	Deepak Varshney, Deepti Goel	The Impact Of Mgnrega On Agricultural
		and J.V. Meenakshi	Outcomes And The Rural Labour Market: A Matched Did Approach
278	July, 2017	Jean-Marie Baland, Rohini Somanathan and Lore Vandewalle	Socially Disadvantaged Groups And Microfinance In India
279	September, 2017	Ashwini Deshpande, Christopher	The Impact Of Adult Education On Knowl-
		Ksoll, Annemie Maertens and	edge, Self-Awareness And Confidence: Evi-
		Vinitha Varghese	dence From A Randomized Controlled Trial in India
280	October,2017	Ashwini Deshpande	Stigma Or Red Tape? Roadblocks In The Use Of Affi rmative Action
281	November, 2017	Hans-Bernd Schfer and Ram Singh	Takings Of Land By Self-Interested Government's
			Economic Analysis Of Eminent Domain
282	December,2017	Jiyun Cao and Uday Bhanu Sinha	Patent Licensing In The Presence Of A Differentiated Goods
283	March, 2018	Dibyendu Maiti and Chandril Bhattacharyya	Informality, Governance And Growth
284	March,2018	K L Krishna, Abdul A Erumban, Bishwanath	ICT Investment And Economic Growth In India:
		Goldar, DK Das, Suresh Chand Aggarwal and Pilu Chandra Das	An Industry Perspective
285	March,2018	K L Krishna, Abdul A Erumban, Bishwanath	Trends And Patterns In Labour Quality In India At Sectoral Level
		Goldar, DK Das, Suresh Chand Aggarwal and Pilu Chandra Das	

List of Seminars

Date 06/04/17	Speaker Anand Srivastava Azim Premji University	Title Labor Market Effects of Inconsistent Policy Interventions: Evidence from India?s Employment Guarantees
13/04/17	Girish Bahall, NCAER	Employment Guarantee Schemes and Wages in India.
20/04/17	Brishti Guha JNU	Grandparents as Guards: Inheritance and Post Marital Residence in a World of Uncertain Paternity
04/05/17	Christian Oldiges OHPI, Oxford	Measuring Multidimensional Poverty in India
25/07/17	Anusar Farooqui, IIM Udaipur, McGill University Columbia University	The Risk Premium on Balance Sheet Capacity
27/07/17	Jonathan Morduch, Wagner Graduate School of Public Service, New York University	Poverty and Migration in the Digital Age: Experimental Evidence on Mobile Banking in Bangladesh
02/08/17	Rajiv Sethi, Barnard College, Columbia University	Meritocracy and Markets
03/08/17	Alok Kumar, University of Victoria, British Columbia	Earning Risks, Parental Schooling Investment, And Old-Age Income Support From Children.
10/08/17	Shareen Joshi, Georgetown University	Jati Inequality in rural India
24/08/17	Dr. Federico Lupopasini, International Business and Finance Law Belfast	Is Financial Nationalism on the Rise? A discussion on the logic of cooperation in international finance

List of Seminars

31/08/17	Ashwini Deshpande, DSE	Do Livelihood Programmes Empower Women? Evidence from Self-Help Groups in Rural India
14/09/17	Bhaskar Dutta, Ashoka and Warwick University	Coalition Formation and History Dependence
12/10/17	Tobias F. Rotheli, University of Erfurt	Pattern-Based Inflation Expectations
02/11/17	Punarjit Roychowdhury, Shiv Nadar University	Partial Identification of Economic Mobility: With an Application to the United States
23/11/17	Shabana Mitra, IIM Bangalore	Wheels of Power: Long-term effects of targeting girls with in-kind transfers
30/11/17	Chandril Bhattacharyya, DSE	Informality, Governance and Growth
18/11/18	Monisankar Bishnu, ISI Delhi	Optimal Intergenerational Transfers and The Rise and Fall of Pay-As-You-Go Pensions.
08/02/18	Matthias Morys, University of York	Where does the Euro stand 10 years after the Global Financial Crisis of 2008?
08/03/18	Raghul S Venkatesh, Aix-Marseille School of Economics	Information Transmission with Substitutability and Resource Constraints
15/03/18	Veronique Gille University of Paris-Dauphine	Measuring sex-selective abortion: Are there repeated abortions?