



**INSTITUTE OF ECONOMIC GROWTH**

ANNUAL  
REPORT

**2020-21**



# ANNUAL REPORT 2020-21



सत्यमेव परमो धर्मः

**INSTITUTE OF ECONOMIC GROWTH**

University of Delhi Enclave,  
(North Campus), Delhi-110007, India.

☎ : 91-11-27667288/424/365/570 📠 : 91-11-27667410  
Website: [www.iegindia.org](http://www.iegindia.org)



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The year 2020 will be remembered as the Year of the Pandemic; its impact was felt in every sphere of our lives, and its shadow was ubiquitous. It was a test of enduring human spirit and bravery. The Institute of Economic Growth (IEG), like most workplaces and communities, witnessed and became a part of the tragedy, trial and triumph which unfolded in society at large. Beginning with the first lockdown in March 2020, the entire reporting period has been under the shadow of the pandemic. IEG has not escaped without severe losses, with some members losing their near and dear ones. IEG coped with two outbreaks at different points in time. The outbreak was so real that at one point we ran a testing camp for all staff and residents in the institute!

It is remarkable that we managed enough activities during the year – research as well as training – to be able to bring out this Annual Report. Credit goes to all academic as well as non-academic staff of the Institute for their superlative effort in ensuring the smooth running of the Institute despite all obstacles and hardships. This report would not have been feasible without them.

Our own Covid-19 Management Committee and IEG Residents' Welfare Committee remained active through the whole period. Despite several adverse impacts, the pandemic led to new avenues for research, collaboration and engagement. Resilience and the spirit to counter adversity were in plenty; the research activities reflect this.

The Indian Economic Service team conducted online training for officers, the first-ever such exercise, right through the pandemic, even with an outbreak in the Hostel during this period. Professor Pravakar Sahoo (Head, IES) and Dr. Oindrila De (Warden), along with other colleagues, saw to it that the officer trainees, the largest batch in recent times, had the best possible training and experience. The Population Research Centre, led by Prof. Suresh Sharma, managed to complete the NFHS 5 survey and other work during the time between the two waves of the pandemic, which required tremendous coordination and preparation. The same goes for work in the AMB-UNICEF unit led by Dr. William Joe and the Health Economics Research Unit led by Professor Indrani Gupta. Various innovations were adopted in other survey-based work (Agriculture, NABARD).

The digital world, as a silver lining, had come to the rescue. We promoted work from home to the extent possible, and online events, including seminars, panel discussions and lectures, became the lifeline of our intellectual selves. The events and seminar pages of this report show how regular and engaging staff have been. Besides the weekly seminars, we had several panel discussions on key policy issues throughout the year, ranging from the initial 'Unlocking of the Indian economy' to more recent discussions on the agriculture policy reforms, labour law (code) reforms and the role of monetary policy during the pandemic. I would like to extend thanks to the two key coordinators, Prof. Mausumi Das and Dr. De, and to the support team led by Mr. Parag Sharma and Ms. Nirmal.

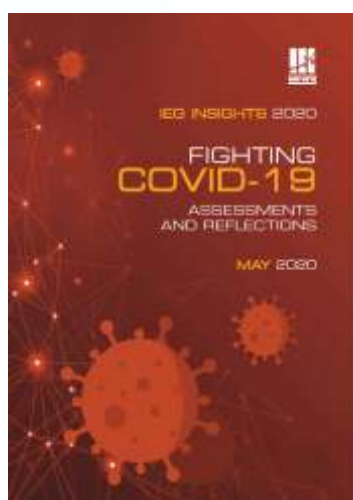
The 2020 Founder's Day Lecture, titled 'Remaking the Post-Covid World', was delivered by Professor Daron Acemoglu (MIT), on 16 November 2020. It was befitting that the lecture in memory of our founder Dr. V.K.R.V. Rao, a great institution builder, was delivered by Prof. Acemoglu who has put institutions at the centre of the discourse on comparative economic development through his seminal works. We also had the IEG-INSEE lecture by Prof. Michael Finus (Graz, Austria) on international climate agreements.

IEG hosted (jointly with the Centre for Development Economics at the Delhi School of Economics) the Society for Economic Research in India (SERI) workshop in July 2020, with participation from scholars across all continents. In collaboration with the Cornell Research Academy for Development, Law and Economics (CRADLE), IEG hosted the Law and Economic Development Workshop in February 2021 as part of the International Economic Association (IEA) Roundtable Series (Palgrave Macmillan). The second FutureDAMS workshop, with University of Manchester, was also hosted by IEG.

Young scholars are essential to the well-being and dynamism of an institution. They bring in new skills, vibrancy

and innovative spirits. IEG has managed to attract several excellent Post-Doctoral Fellows in addition to our research officers and analysts; mentored by our colleagues, they have added tremendously to the research output and environment. IEG has also expanded its outreach by launching a Summer Research Fellowship for Master's Students, where five to six teams of students, mentored by the IEG faculty, are supported to do research on key public policy issues. I would like to record our appreciation of the support by Ms. Shailaja Chandra. I am sure the next Annual Report will have more on this!

IEG continues in its unique and fascinating journey as a research institute. Besides offering advanced training to IES Officers and working with various government ministries, it occupies an important middle ground between pure academic research and applied policy analysis, combining rigour with relevance and wider access, reflected in the range of activities undertaken by IEG faculty. It has been a difficult but absorbing year, my report will not be complete without highlighting the superlative research efforts by my colleagues. Because of space constraints, I have included only a selection of the work by my colleagues, in my report. Full details of all research activities can be found in various sections of this Report and on the IEG website.



Early into the pandemic, in April 2020, colleagues at the Institute took up the difficult task of making assessments of the COVID-19 situation and our response. The papers led to the collected volume *IEG INSIGHTS 2020* titled *Fighting COVID-19: Assessments and Reflections*.<sup>1</sup>

Several colleagues – Manoj Panda, Pravakar Sahoo, Indrani Gupta, William Joe, C.S.C. Sekhar, Purnamita Dasgupta, Oindrila De, Suresh Sharma, Mausumi Das and Sabyasachi Kar – contributed to this volume.

Agriculture and rural development has been one of IEG's traditional research areas. It is clear that the pandemic has featured prominently in IEG research over the past year. In a series of papers, **Prof. C.S. R. Nuthalapati** has looked at the impact of the pandemic on the food value/supply chains and how new methods and segments of food marketing and distribution are playing a bigger role.

Pivoting by food industry firms to cope with COVID-19, *Agricultural Economics*, 2020.

Supermarkets procurement and farmgate prices in India, *World Development*, 2020

*C.S.R. Nuthalapati*

2,3,4

In a related work, using a longitudinal survey on agri-food system transformation, **Prof. Nuthalapati** and his co-authors show that the rise of supermarkets can help in improving market efficiency and farmer profitability through higher prices.<sup>5</sup> They show that that modern value chain participants accrued 20% higher farmgate prices even after controlling for transaction costs and quality differences. His research documents the explosion of start-ups and associated innovations through intensification of engagement between start-ups, corporate companies, various levels of government, donor agencies and civil society groups in an open innovation framework.<sup>6</sup>

<sup>1</sup> [http://iegindia.in/upload/uploadfiles/insight\\_covid\\_2.pdf](http://iegindia.in/upload/uploadfiles/insight_covid_2.pdf)

<sup>2</sup> <https://doi.org/10.1002/aepp.13160>

<sup>3</sup> <https://doi.org/10.1111/agec.12631>

<sup>4</sup> <https://www.epw.in/journal/2020/18/commentary/covid-19s-disruption-indias-transformed-food.html>

<sup>5</sup> <https://doi.org/10.1016/j.worlddev.2020.105034>

<sup>6</sup> <http://isaeindia.org/wp-content/uploads/2021/03/05-Article-Chandra-SR-Nuthalapati.pdf>



Farmers' stress has been the subject of **Prof. Brajesh Jha's** research in recent years. He finds that some of the reasons for farmers' stress were rooted in agricultural policies of increasing domestic production and productivity in agriculture. He also argues that certain laws, like the one related to land, have lost their relevance, as these largely focus on absent landowners and prohibiting tenancy, while the number of holdings of unviable size increased in the recent decades. An average farmer's income therefore depends on the various farm and non-farm sources, and his paper discusses the role of non-farm business in farmer's income and the robustness of the same with the NSS data.<sup>7</sup>

Farmers' stress, income and role of non-farm business

IEG WP No. 408

B. Jha

In an area that has lacked serious research or attention, **Prof. Jha** and **Dr. Sangeeta Chakravarty** examine the *performance and efficiency of futures markets* for the selected agricultural commodities (gram, wheat, soybean, maize kharif and rabi) from secondary information from various institutions (commodity exchanges).

Imperfect markets, especially in agriculture, have been a key research area for several decades. But new issues and questions keep emerging. **Prof. C.S.C. Sekhar** submitted a detailed report on agricultural market imperfections entitled '*Market imperfections and farm profitability*' to the Ministry of Agriculture & Farmers Welfare, Gol. He has also looked at the forms of public support to farming – whether income or price support – and works out the wider implications of these.<sup>8</sup> The recent reforms to the farm laws have been discussed and debated in various quarters. **Prof. Sekhar** explains all the relevant issues very succinctly in his recent paper on the subject.<sup>9</sup>

Price or income support to farmers?

IEG WP NO. 420

C.S.C. Sekhar

Agricultural price and volatility remains a critical issue due to its adverse economic impacts. **Dr. Sakshi Saini** focuses on identifying structural breaks in the prices and volatility among agricultural commodities. In an increasingly globalised world, the impact of international price and volatility on domestic agricultural commodities assumes critical importance.

The pandemic added several new dimensions to the problem of design and implementation of policies. A number of economic and health policies adopted during the COVID-19 pandemic have been rendered partially or fully ineffective due to offsetting actions from private individuals, resulting in policy mishaps. **Professors Mausumi Das** and **Sabyasachi Kar** argue that these policy mishaps are the result of not one, but several types of policy conundrums entangled with one another, creating a complex policy challenge.<sup>10</sup> It also provides a sketch of what a comprehensive policy package should look like.

Untangling policy mishaps: how to make policies more effective during a pandemic

Economic and Political Weekly, 2020.

M. Das and S. Kar

It is not enough to have well intentioned policies – proper implementation is essential too. **Prof. Ajit Mishra** looks at a class of enforcement situations with pervasive corruption where successful enforcement depends on the acquired competence of the officials and derives optimal policies.

Optimal enforcement policies in a corrupt environment

Scottish Journal of Political Economy.

A. Mishra and A. Samuel

<sup>7</sup> [http://iegindia.in/upload/profile\\_publication/doc-150920\\_132934wp408.pdf](http://iegindia.in/upload/profile_publication/doc-150920_132934wp408.pdf)

<sup>8</sup> [http://iegindia.in/upload/profile\\_publication/doc-230321\\_111047WP420.pdf](http://iegindia.in/upload/profile_publication/doc-230321_111047WP420.pdf)

<sup>9</sup> [http://iegindia.in/upload/profile\\_publication/doc-110521\\_220616WP%20428.pdf](http://iegindia.in/upload/profile_publication/doc-110521_220616WP%20428.pdf)

<sup>10</sup> <https://www.epw.in/journal/2021/7/perspectives/untangling-policy-mishaps.html>

The monetary policy response to adverse financial conditions and asset price misalignments is a contentious issue that has intensified in recent years due to rising concerns about financial stability. **Dr. Sakshi Saini** investigates the relationship between monetary policy and misalignment in the stock prices and contributes to the policy debate by empirically assessing competing theoretical predictions on the appropriate role of monetary policy to equity price bubbles.<sup>11</sup>

**Dr. Sandhya Garg** has been involved in several studies on the key issue of financial access, which has implications for not just consumption smoothing but also investment and entrepreneurship. She has looked at financial access of unbanked villages in India in the recent decades.<sup>12</sup> She also explores the impact of financial access on the gender gap in entrepreneurship and financial inclusion. She uses techniques from spatial econometrics to arrive at robust results.

Financial access of unbanked villages

IEG WP NO. 403

S. Garg and S. Gupta

**Prof. Pravakar Sahoo** has been looking at the impact of the pandemic and various lockdowns on the overall economy. The pandemic hit the Indian economy when it was at the lowest point of its growth trajectory over last six years. In this context he and his co-authors assessed the likely fall out of pandemic lockdown and subsequent lockdowns on India's gross value added (GVA), manufacturing, trade and MSME sector.<sup>13</sup>

**Prof. Arup Mitra** has done extensive research on economic growth, livelihood creation and mobility.<sup>14</sup> His work shows how, in the context of short-term mobility, multiple activities are adopted simultaneously by agents to cope with income instability.<sup>15</sup> His work on long-term time-independent income mobility focuses on various determinants including the role of human capital, gender discrimination, regional heterogeneity and the relative disadvantages faced by the migrants. In addition, the mobility issues encompass the physical movement of the population, which is examined in terms of the rural-urban migration in the framework of agglomeration economies and the new economic geography (NEG) literature. The role of city-centric growth and its effects on well-being levels and the quality of urbanisation are assessed to address the positive spill-over effects of urbanisation. This also includes research on the effects of the recent pandemic and the lockdown on livelihood. In the context of technological changes, **Prof. Mitra** looks at the livelihood challenges of the new technology and the routes for overcoming the crisis through domestic innovation, processing of by-products, scale effects, entrepreneurship development and skill imparting training.<sup>16</sup>

Long-term employment-growth relationship in India

Journal of Asian Development Research

A. Mitra

Covid-19 and livelihood loss

Economic and Political Weekly

A. Mitra and J. Singh

**Dr. Swati Sharma** looks at the declining female labour force participation and possible labour market discrimination. She examines the barriers created by the interplay of workplace networks and managerial practices on women's career mobility. Using primary data based on her field survey, she finds that women are less likely to form instrumental ties and are, thus, unable to signal their capabilities. Thus, they are less likely to be recommended for valuable promotions.

Gender and workplace: who is likely to lose?

IEG Working Paper No. 428

S. Sharma

11 Monetary Policy and Stock Price Misalignment: International Evidence, mimeo

12 [http://www.iegindia.org/upload/profile\\_publication/doc-110820\\_192018wpp403.pdf](http://www.iegindia.org/upload/profile_publication/doc-110820_192018wpp403.pdf)

13 Sahoo, Pravakar, and Ashwani. 'COVID-19 and Indian economy.' Global Business Review 21.5 (2020): 1159-1183. [http://iegindia.in/upload/profile\\_publication/doc-180520\\_134114wppf390.pdf](http://iegindia.in/upload/profile_publication/doc-180520_134114wppf390.pdf)

14 Mitra, Arup. 'Long-term growth-employment relationship in India' in Journal of Asian Development Research, 2021 (February).

15 Mitra, Arup and Tripathi, Sabyasachi. Rural Non-Farm Sector: Revisiting the Census Towns. Environment and Urbanization ASIA, 2021. <https://doi.org/10.1177/0975425321990324>

16 Bhattacharya, Sujatra and Mitra, Arup. 'Fourth industrial revolution and India's employment problem', International Journal of Social Economics, 2020.

**Prof. Veena Naregal** has been pursuing the theme of marginalisation of labour and has focused on labour policy continuities from the 1940s to the present, with a special focus on poor migrant labour and debates on ending labour market dualism in the post-COVID context of escalating precarity. Together with Dr. Dezy Kumari, using qualitative and quantitative approaches, her study entitled *Historicising Labour Policy, Reorienting Social Policy* analyses agendas in Indian labour policy through a close reading of key labour policy documents in tandem with higher education policy between 1950 and the 2000.<sup>17,18</sup> Further, through an ICSSR-sponsored project, **Prof. Naregal** explored the twinning of the logic of linguistic territorialisation with developmental agendas between 1920 and 1960, and implications of this federal vision for Indian democracy.<sup>19</sup>

Revisiting reports of the first and second Labour Commission Report

IEG Working Paper No. 423

D. Kumari and V. Naregal

In a recent piece of research, **Prof. Indrani Gupta** along with others re-examine the 'inverse care law' (ICL) – a term coined by Tudor Hart in 1971 to describe the phenomenon of socially disadvantaged people being more susceptible to illness relative to socially advantaged people, and at the same time being recipient of less health care. The findings indicate that a complete ICL continues to operate in almost all low-income and middle-income countries in varying magnitude, whereas an incomplete ICL operates in all upper-middle-income and high-income countries.<sup>20</sup>

Inverse Care Law Re examined.

Lancet February 2021

R. Cookson, T. Doran,  
M. Asaria, I. Gupta

Relying on serendipity is not enough: building a resilient health sector in India.

Indian Economic Review,  
August 2020

I. Gupta

The COVID-19 pandemic prompted her to look at India's pandemic preparedness, where she analyses the state of India's health system and the lessons India can learn in preparing better for future such exigencies.<sup>21</sup>

**Prof. Suresh Sharma** examines the viability of 'social distancing norms' among the slum population in India. The slum dwellers are predisposed to a number of vulnerabilities that exacerbate the risks of contracting COVID-19. Using the Census 2011 data, the study showed how it is nearly impossible to follow the policy prescriptions with single room dwellings, outdoor toilets and inadequate access to safe drinking water. The study recommended that preventive guidelines in the case of public health emergencies such as COVID-19 be all-inclusive, and these must take into account the specific needs of vulnerable population groups.<sup>22</sup>

Is social distancing a good strategy?

Demography India 2020

S. Sharma

**Dr. William Joe** has been examining the COVID-19 case fatality rates (CFR) and the impact of COVID-19 related disruptions on maternal and child service delivery during the COVID-19 lockdown phase in 2020. In particular, the paper on the estimation of COVID-19 case fertility rates conducted in collaboration with colleagues at IEG and Harvard, highlighted the elevated risk of COVID-19 deaths among females in India.<sup>23</sup> His COVID-19 related research is further extended with a study on vaccine hesitancy in India and the impact of the COVID-19 lockdown on food security among migrants.

Equal risk and unequal burden?

Journal of Global Health Science, 2020

W. Joe, Kumar, A.,  
Rajpal, S., Mishra, U. S., &  
Subramanian, S. V.

17 Kumari, Dezy and Naregal, Veena. Revisiting Reports of the First National Labour Commission & the Second National Labour Commission: Labour Policy Analysis, March 2021, [http://iegindia.in/upload/profile\\_publication/doc-010421\\_161609WP423fc.pdf](http://iegindia.in/upload/profile_publication/doc-010421_161609WP423fc.pdf)

18 Kumari, Dezy and Naregal, Veena, Policy Analysis beyond Development Economics: Questions for Labour Policy Analysis, IEG Working Paper No. 422, 2021, [http://iegindia.in/upload/profile\\_publication/doc-310321\\_140907WP422.pdf](http://iegindia.in/upload/profile_publication/doc-310321_140907WP422.pdf)

19 Boratti, Vijayakumar and Naregal, Veena, Rethinking Linguistic Unification Spanning Political Heterogeneity: Karnataka Ekikarana Across British India and 'Princely' Karnataka, IEG Working Paper No. 397, 2020, [http://iegindia.in/upload/profile\\_publication/doc-250620\\_132517wppf397.pdf](http://iegindia.in/upload/profile_publication/doc-250620_132517wppf397.pdf)

20 The inverse care law re-examined: a global perspective. (with Cookson R et al.). The Lancet. 2021 Feb 27; 397(10276): 828-38.

21 Gupta I. Relying on serendipity is not enough: Building a resilient health sector in India [published online ahead of print, 2020 Aug 19]. Indian Econ Rev. 2020;1-23. doi:10.1007/s41775-020-00091-5

22 Is Social Distancing a Good Strategy to contain COVID-19 for slums in India? Demography India Vol. 49, Special Issue (2020), pp. 113-119 ISSN 0970-454.

23 Joe, W., Kumar, A., Rajpal, S., Mishra, U. S., & Subramanian, S. V. (2020). Equal risk, unequal burden? Gender differentials in COVID-19 mortality in India. Journal of Global Health Science, 2(1). <https://pc.e-jghs.org/DOIx.php?id=10.35500/jghs.2020.2.e17>

**Dr. Joe** is engaged in research on maternal and child health and nutrition, providing technical support to the National Health Mission and the Anemia Mukh Bharat (AMB) strategy. Estimations and geo-visualisation of spatial patterns of nutritional status was a core area of research conducted in collaboration with *geographic insights* at Harvard University, NITI Aayog and supported by the Tata Trusts data science initiative at IEG. They also look at child nutrition across political geographies and on service utilisation such as Integrated Child Development Services (ICDS).<sup>24,25,26</sup>

<https://anemiamuktbharat.info/>  
<http://iegindia.org/Dashboard-Nutritional>

*W. Joe and team*

**Dr. Archana Dang's** research interests include the economics of health, specifically overweight and obesity issues, in India. More recently, she has examined the association between COVID and obesity in India. Currently, she is working on exploring the share of diagnostics in households' health expenditure, and how it has been changing over time.

Clearly, COVID-19 has shaped the research agenda in a significant manner. The delivery of public service in general, not just health, has been in focus as well.

**Professors Saudamini Das** and **Ajit Mishra** look at the effectiveness (or lack of it) of the multiplicity of welfare schemes introduced during the first lockdown. They find that the extent of benefit falls far short of the intended targets.<sup>27</sup>

Impact of welfare schemes on informal sector workers

IEG Working Paper No.409

*S. Das and A. Mishra*

It is accepted that low investment causes an economy to perform below its potential capacity, which in turn limits opportunities for the poor to improve their livelihoods. In India, investment rose constantly in the beginning of the twenty-first century and peaked at 38 percent of the GDP in 2007, but has slowed in the period after the global financial crisis, especially after 2012. **Prof. Pravakar Sahoo**, in a study funded by IMPRESS-ICSSR, examines the factors which are associated with this investment slowdown and makes suggestions for its revival.

Investment in India: What led to its slowdown and how to revive it?

IEG WP No. 436

*P. Sahoo and R. Bishnoi*

**Dr. Oindrila De**, in a study funded by IMPRESS-ICSSR, examines the impact of rural job guarantee programme on micro and small firms and its clusters. Using two rounds of MSME census and survey data, her research shows that though programme district enterprises lost employees during first phase of implementation, labour productivity improved in these enterprises.

India's cartel penalty practices

IEG Working Paper No. 424

*O. De and A. Bhattacharjee*

In another study, **Dr. De** examines the penalties for anti-competitive behaviour in India and finds that though our Competition Act allows for a much harsher penalty, the methods adopted by the Competition Commission of India (CCI) are often inconsistent, and fall short of restitution and deterrence benchmarks.<sup>28</sup>

24 Rajpal, S., Kim, R., Joe, W., & Subramanian, S. V. (2020). Does the Choice of Metric Matter for Identifying Areas for Policy Priority? An Empirical Assessment using Child Undernutrition in India, Social Indicators Research. <https://link.springer.com/article/10.1007/s11205-020-02467-9>

25 Rajpal, S., Joe, W., Subramanyam, M. A., Sankar, R., Sharma, S., Kumar, A., & Subramanian, S. V. (2020). Utilization of Integrated Child Development Services in India: Programmatic Insights from National Family Health Survey, 2016. International Journal of Environmental Research and Public Health, 17(9), 3197. <https://www.mdpi.com/1660-4601/17/9/3197>

26 Rajpal, S., Joe, W., Kim, R., Kumar, A., & Subramanian, S. V. (2020). Child Undernutrition and Convergence of Multisectoral Interventions in India: An Econometric Analysis of National Family Health Survey 2015–16. Frontiers in Public Health. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7188776/pdf/fpubh-08-00129.pdf>

27 [http://iegindia.in/upload/profile\\_publication/doc-150920\\_133354wp409.pdf](http://iegindia.in/upload/profile_publication/doc-150920_133354wp409.pdf)

28 Bhattacharjee, A. and De, O. (2021) India's Cartel Penalty Practices, Optimal Restitution and Deterrence. IEG Working Paper No. 424 (March 2021).



**Prof. Purnamita Dasgupta** has been studying sustainable development, looking at issues related to air pollution, climate change mitigation and health linkages. Just after the first lockdown, she analysed its immediate impact on air pollution by considering 5 pollutants in 8 cities over a 27-day period.<sup>29</sup> **Prof. Dasgupta and Dr. Srikanth** analyse these findings in conjunction with city level socio-economic correlates and current air pollution management strategies, to gain policy insights on the scope for integrating improved air quality with economic recovery for a sustainable future.

Reducing Air Pollution during COVID-19: Learning for Sustainability

*Global Transitions, 2020*

*P. Dasgupta and K. Srikanth*

Climate change features in the work of **Prof. Saudamini Das** who did a mid-term evaluation, funded by NABARD, of four climate change adaptation projects financed under the UNFCCC's Climate Change Adaptation Fund in India. **Prof. Das** has also looked at the impact of heat wave days on income of slum dwellers who are daily earners and work in informal sector. This study measures the income loss of these workers due to extreme temperature in summer on daily basis. Barak-Meghna River in North-East India is a transboundary river being shared by India and Bangladesh and there is need for optimal water sharing to maximise the ecosystem benefits from the river basins. **Prof. Das** has done a socio-economic analysis of the Indian part of the river basin to measure the water dependency of upstream dwellers and the future water demand.

How to extreme temperature affect income of daily earners and informal workers?

*S. Das*

**Prof. Basanta Pradhan** uses a computable general equilibrium (CGE) model to assess the coal cess and technological progress in emerging energy technologies to achieve India's NDC target of about 40 percent cumulative electric power installed capacity from non-fossil-fuel-based energy resources by 2030. The study shows that carbon pricing in the form of coal cess and technological progress in energy technologies could be the key drivers of low-carbon growth in India. While endogenous technological change in renewables under the current level of coal cess can help to achieve the target of Nationally Determined Commitments (NDCs) along with economic gains; productivity in renewables must on average increase by 5.2 times compared to current trends. The coal cess can play an important role in achieving the NDC target if it is increased over time (by 15 percent annually). Moreover, it can facilitate the shift towards a low-carbon economy by being a source of finance for supporting R&D in energy technologies.

A general equilibrium assessment of carbon pricing and technological progress in achieving India's NDC target.

*B. Pradhan and J. Ghosh*

**Ajit Mishra**

*Director, IEG*

<sup>29</sup> Dasgupta, Purnamita and Srikanth, Kavitha, 2020, <https://www.sciencedirect.com/science/article/pii/S2589791820300220?via%3Dihub>

The Institute of Economic Growth (IEG), established by eminent economist V.K.R.V. Rao in 1952, is an autonomous and multi-disciplinary centre for advanced research and training. It is one of India's leading institutions focusing on research and policy formulation in the fields of economic and social development. Its faculty of about 20 social scientists (economists, demographers, sociologists, and social anthropologists) and a large body of supporting research staff focus on the analysis of salient and cutting-edge areas of social and economic concerns. Several former faculty members have served as members of the Planning Commission or on the Prime Minister's Panel of Economic Advisors, current faculty continues the tradition by contributing to several Advisory Boards and Commissions.

IEG's faculty, Board of Governors and Board of Trustees have included a wide range of distinguished intellectuals and policy makers including V.T. Krishnamachari, C.D. Deshmukh, P.N. Dhar, A.M. Khusro, Dharm Narain, C. Rangarajan, C.H. Hanumantha Rao, Ashish Bose, Nitin Desai, T.N. Madan and Bimal Jalan. Former Prime Minister, Dr Manmohan Singh is the President of the IEG Society. As a leading research centre, IEG has hosted renowned scholars including Pranab Bardhan, Kaushik Basu, Jan Breman, Diane Elson, Yujiro Hayami, James Heckman, Ronald Herring, Lawrence Klein, Elinor Ostrom, Amartya Sen and Nicholas Stern.

The Institute is a non-profit registered society and also a charitable trust. It receives regular grants from the ICSSR and from the Ministry of Health and Family Welfare, Ministry of Agriculture, and the Ministry of Finance. It has received endowment grants from both government and private sources such as the Planning Commission, Reserve Bank of India, National Bank for Agriculture and Rural Development, the Ford Foundation and the Sir Ratan Tata Trust. Besides, IEG has undertaken research projects supported by agencies such as the World Bank, UNDP, ILO, WHO, DFID (UK) (now the Foreign, Commonwealth and Development Office), IDRC, CIDA, Ford Foundation, the Bill and Melinda Gates Foundation, South Asian Network for Development and Environmental Economics and the ICSSR.

Research at the Institute focuses on major themes in economic and sociological theory and practice. It also brings to bear conceptual clarity and empirical rigour in the analysis of central issues in public policy. The research programme is dynamic and regularly updated to incorporate new questions, approaches and methodological techniques.

Since its inception, IEG has functioned as a centre for teaching and specialised training. Since 1968, it has conducted training programmes for officers of the Indian Economic Service in economic and policy analysis. IEG also organises short-term orientation and refresher courses on request from the government or other institutions. IEG faculty serve as co-supervisors for research students registered at various universities. Although the Institute does not conduct a PhD programme, nearly hundred students have been awarded PhD degrees under the guidance of IEG faculty.

IEG is one of the network institutions of the ICSSR whose grant has been a key component of the Institute's finances since 1974-75. The ICSSR also provides doctoral and post-doctoral fellowships at the Institute. Being part of the ICSSR network, IEG has the privilege of interacting with several other social science institutions in the country.

The Institute is a partner in the M.S. Merian–R. Tagore International Centre of Advanced Studies in the Humanities and Social Sciences (ICAS-MP). The Institute is partnering several research institutions including Lee Kuan Yew School of Public Policy at National University of Singapore, Global Development Institute at Manchester, and CRADLE at Cornell University

Research and Training activities are organised in various units and centres of the Institute.

### **Agricultural Economics Research Unit**

The Agricultural Economics Research Unit (AERU) was established in 1961 as the Ministry of Agriculture (MoA), Government of India, felt the need for all-India studies. The Unit works on research areas suggested by the MoA, supplemented by inputs from academics and policymakers who form its Research Advisory Committee. The Unit has worked on a wide spectrum of subjects pertaining to agricultural policy and development and contributed significantly to agricultural policy research in the country.

After the adoption of high-yielding varieties in the 1960s, studies investigated technological change and its distribution, effects on employment, subsidies and investment in agriculture, water and natural resources for agricultural growth and the importance of the non-farm sector. A few studies also evaluated the working of different government programmes like the Rashtriya Krishi Vikash Yojana (RKVY) and the natural resource management component in Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA). More recent studies examine fertilisers, trade in agricultural commodities, marketing, prices, economic distress of farmers, rural transition, land use, climate change, etc.

### **Development Planning Centre**

The Development Planning Centre (DPC) was set up with an endowment grant from the erstwhile Planning Commission (now NITI Aayog). In the past, the DPC specialized in macro-econometric analysis with special expertise in building macro-models used to analyse macroeconomic behaviour and policy and for forecasting. Currently, the faculty at the Centre are working on a wide range of macro issues concerning the Indian economy. The issues vary from growth dynamics and structural transformation, financial markets and stock market behaviour to political economy, income distribution, and climate and energy economics.

### **Environmental and Resource Economics Unit**

Since the 1980s, IEG has been a pioneer in environmental and resource economics in India. An endowment grant from the Ford Foundation in 2001 led to the establishment of the Environmental and Resource Economics Unit at the IEG. Over the years, the Unit has kept up its tradition of incorporating ideas from the other social and physical sciences to understand the critical role played by ecosystems and natural resources in ensuring social and economic well-being, and the importance of this approach is increasingly being recognised

The Unit aims to provide solutions and insights on the possibilities and challenges of convergence between profitability, consumer behaviour and sustainability. Economic valuation and climate change economics have been two major foci of the Unit's research in recent years.

### **Health Policy Research Unit**

The Health Policy Research Unit (HPRU) was started in 1998 with a major grant from the Ford Foundation. The HPRU uses tools of economic analysis to conduct research in areas that address the current and long-term objectives of the health sector. It aims to establish world-class research expertise in health sector analysis and build research alliances with a wide spectrum of stakeholders, including the government, research institutes, development partners and domestic health NGOs. HPRU encourages interdisciplinary research, with a core focus on health economics. Some of its major areas of research have been demand for healthcare; health financing with emphasis on health coverage; health and poverty; economic aspects of diseases like HIV/AIDS and non-communicable diseases; and international agreements impacting on health, costing and cost-effectiveness.

### **Indian Economic Service Unit**

Since 1968, the Indian Economic Service (IES) Unit of the IEG has been organising training programmes for IES officers on behalf of the Department of Economic Affairs, Ministry of Finance, Government of India. Training in economic policy and planning is provided to newly recruited IES Officers on a regular basis and to in-service Officers from time to time. The objective of the training is to enrich the officers' understanding of economic issues and to strengthen their capacity to make effective contributions to policy making.

The IES Unit conducts research on issues of economic policy and development. In 2019-20, the faculty's research resulted in peer-reviewed publications in key areas of economic policy such as labour and employment, financial access, trade facilitation, manufacturing, competition, ecological economics and data analysis. The Unit draws on the Institute's own research and its continual engagement with applied research that is relevant to policy while training officers. The faculty use their expertise on data and institutional arrangements, and their familiarity with the latest research techniques and software applications, to inform their teaching and provide training that is appropriate and current.

### **NABARD Chair Unit**

In 1995, the National Bank for Agriculture and Rural Development (NABARD) financed the NABARD Chair Unit, including a professorship and supporting research staff, to undertake research on issues relating to agricultural growth and rural non-farm employment.

Its areas of research were redefined to include topics related to climate change, rural livelihoods, financial inclusion, value chain management, agriculture marketing and financial product development and other topics useful to NABARD for business development and addressing policy changes. The unit has worked on issues related to climate change adaptation, natural disaster, rural livelihoods and evaluation of adaptation projects.

### **Population Research Centre**

The Population Research Centre (PRC) at IEG, one of the earliest of its kind in the country, was set up by the Government of India in 1957. An overriding objective for the government while setting up the PRC was to examine high population growth prevailing then as an important demographic deterrent to the country's planned growth. The finances allocated to the PRC come from the Ministry of Health and Family Welfare (MoHFW).



The PRC staff pursues policy-relevant research in thrust areas such as fertility and family planning; urban demography and internal migration; regional variations in population parameters; contraception and reproductive health; child health and mortality; the ageing process in India; the population–development– environment nexus; and economic security and human resource development. In addition, the PRC has been involved in most of the large-scale surveys conducted by the Ministry of Health over the past decades, including three rounds of the National Family Health Survey (NFHS) and District Level Health Survey (DLHS).

### **RBI Endowment Unit**

In 1979, the Reserve Bank of India (RBI) gave a grant to IEG to set up an applied econometrics research section. The Applied Econometric Research Centre collaborated with the LINK Model of Prof Lawrence Klein. The RBI Endowment Unit was set up in 2002; its research projects and publications are related mostly to macroeconomics, international economics and development economics.

### **Social Change and Social Structure Unit**

The Social Change and Social Structure Unit (SCSS) evolved out of the Asian Research Centre that UNESCO founded at the IEG in 1967. With the phasing out of UNESCO support, this Centre was re-organised into its current form in 1974. It has since been funded by the ICSSR's Maintenance and Development Grant.

Over the past four decades drawing on the diverse inter-disciplinary training of its faculty, the Unit has conducted research on a range of topics including the comparative study of development; religion and secularism; gender, family and kinship; urban and rural transformation; tribal rights and livelihoods; professionals and other middle-class elites; social policy with respect to education, labour, urbanisation, health; cultural forms, disciplinary histories and thematic of marginalisation; visual studies; theatre histories; media networks and social transformation; cultural politics of the environment; and language and Indian democracy. The Unit also publishes the reputed journal *Contributions to Indian Sociology*.

## Research Activities

### Brief Overview

The main thrust of IEG's research is on the development of India's economy and society. Faculty members work on both conceptual and empirical issues with strong policy relevance. The research programme is periodically revised to incorporate new areas of interest. Many faculty members work on more than one theme.

### COMPLETED PROJECTS AND STUDIES

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
Agriculture and Rural Development	Future Market for Agriculture Commodities in India	Ministry of Agriculture and Farmers Welfare (MoA&FW), Government of India (GoI)	Sangeeta Chakravorty and Brajesh Jha	April 2019	September 2020 (draft report submitted in 2020, final report will be submitted in 2021)
	Market Imperfections and Farm Profitability	MoA&FW, GoI	C.S.C. Sekhar	April 2019	April 2021 (draft report submitted)
	Impact Evaluation of Climate Change Adaptation Projects undertaken by NABARD under Adaptation Fund and National Adaptation Fund for Climate Change	NABARD	Saudamini Das	July 2019	March 2021
	Requirement and Availability of Cold Chain for Fruits and Vegetables in the Country	MoA&FW, GoI	Chandra S.R. Nuthalapati	October 2019	March 2021

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
	Forecasting Agricultural Output Using Space, Agro-Meteorology and Land based Observation (FASAL) Real Time Information System of Agriculture Sector (RTISA)	MoA&FW, Gol	Nilabja Ghosh, M. Rajeshwor, Alka Singh and Yashika Rani	2005	Submitted kharif forecasts and monthly rabi forecasts for 2020-21
	Coordinated Horticulture Assessment and Management using Geo-informatics (CHAMAN)	Mahalanobis National Crop Forecast Centre (MNCFC) under MoA&FW	Nilabja Ghosh, M. Rajeshwor, Satarupa Charkravarty and Yashika Rani	2017	Submitted forecast reports for six crops (onion, tomato, potato, chilli, cumin and coriander) for 2020-21
	Econometric Crop Yield Modelling with Satellite Remote Sensing under 'Space Utilization for Food-security and Agricultural Assessment and Monitoring (SUFALAM)' programme	Space Applications Centre (SAC), Indian Space Research Organization (ISRO) SAC	Nilabja Ghosh, M. Rajeshwor and Yashika Rani	2019	Submitted price forecasts reports for sugarcane, cotton and chickpea (gram)
<b>Environmental and Natural Resource Economics</b>	Socio-economic Analysis of Barak-Meghna Basin India	IUCN Asia Pacific Office	Saudamini Das	January 2020	February 2021
	Valuation of The Commons: Essentials of Managing the Environment	Foundation for Ecological Security, India	Purnamita Dasgupta		

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
Health Economics and Policy	Impact of COVID-19 Lockdown Period on Utilisation of Health Services Coverage and Utilisation: Evidence from HMIS	MoHFW	William Joe	April 1, 2020	Feb, 2021
	Quality of Maternal and Neonatal Care Services in Public Health Facilities: A Study of Selected Districts of Uttar Pradesh	MoHFW	William Joe	November 1, 2020	Feb 28, 2021
	Delivery of Maternal and Child Health Care Services during COVID-19 Pandemic: A Study of Rajasthan	MoHFW	Suresh Sharma and William Joe	July 1, 2020	Nov 30, 2020
	Costing of Health and Wellness Centres, A Case Study of Gujarat	ACCESS Health International	Indrani Gupta	July 2019	Jan 2021
	Impact Evaluation of ART Programme under NACP	NACO	Indrani Gupta	March 2018	Nov 2020
	Untangling Policy Mishaps: How to Make Policies More Effective during a Pandemic	Individually initiated	Mausumi Das and Sabyasachi Kar	May 2020	Aug 2020
	Association of Socio-economic and Demographic Factors with COVID-19 Related Health Outcomes in SAARC Nations	Individually initiated	Sangeeta Chakravorty, Gurprit Grover and Sanya Aggarwal	June 2020	Dec 2020
Industry and Development	Impact of NREGA on Small Scale Industry and its Clusters	IMPRESS-ICSSR	Oindrila De	March 2019	July 2020

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
<b>Labour and Welfare</b>	COVID Lockdown and Coping by Informal Sector Workers (Part 1)	NABARD Funds at IEG	Saudamini Das	April 2020	Dec 2020
<b>Macro-economic Analysis and Policy</b>	The Macroeconomic Costs of Epidemics	Individually initiated	Mausumi Das and Shankha Chakraborty	May 2020	Feb 2021
<b>Population and Human Resource Development</b>	Twin Births, Delivery Care and Child Mortality in India: Trend and Patterns: Evidence from National Family Health Surveys, 1992-2016	MoHFW	William Joe	November 1, 2020	Feb 28, 2021
	Home Based Care for Young Child (HBYC) Programme: A Study on Preparedness of ASHAs in Haridwar, Uttarakhand	MoHFW, Gol	William Joe	November 1, 2020	February 28, 2021
	Activities, Incentives and Time Allocation Patterns of ASHA Workers: A Study of Selected Districts in Uttar Pradesh	MoHFW, Gol	William Joe	September, 1, 2020	February 28, 2021
	Knowledge Products based on Project Spotlight, Palghar, Maharashtra	Tata Trusts	William Joe	April 1, 2020	March 31, 2021
	Evaluation of Project Making it Happen, Rajasthan	Tata Trusts	William Joe	April 1, 2020	June 30, 2020
	Comprehensive National Nutrition Survey (CNNS) – Knowledge Products Development	UNICEF	William Joe	April 1, 2020	June 30, 2020

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
Population and Human Resource Development	National Family Health Survey-5 (NFHS-5) NCT Delhi	MoHFW, Gol	Suresh Sharma	September 2019	January 2021
	National Scheme of Incentive to Girls for Secondary Education	Ministry of Human Resource Development (MHRD)	Suresh Sharma		September 2020
	National Means Cum-Merit Scholarship Scheme	Ministry of Human Resource Development (MHRD)	Suresh Sharma	June 2020	September 2020
	Role of Health & Wellness Centres in Reducing the Burden of Non-Communicable Diseases: A Comparative Study between Uttarakh and Uttar Pradesh	MoHFW, Gol	Suresh Sharma	June 2020	March 2021
	Effective Utilisation of ANMOL and Its Impact on Public Health System in the State of Himachal Pradesh	MoHFW, Gol	Suresh Sharma	June 2020	March 2021
	Concurrent Monitoring of Essential Health Services Delivery during the COVID-19 Outbreak in Rajasthan: Reorienting and Restoring Healthcare Mechanisms	MoHFW, Gol	Suresh Sharma	September 2020	December 2021

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
	Trends in Hospital In-patient Mortality and Admissions Volume in India	MoHFW, Gol	Suresh Sharma	April 2020	March 2021
	Efficiency Assessment of Maternal Health Services in Aspirational Districts of the EAG States in India: A Data Envelopment Analysis Approach	MoHFW, Gol	Suresh Sharma	June 2020	March 2021
	Incidence of Adverse Events during Medical and Surgical Hospitalizations in India: Profiling Quality Assurance in Public Health Care	MoHFW, Gol	Suresh Sharma	June 2020	March 2021

Research Themes	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
Population and Human Resource Development	Uncovering Decadal Trend and Spatial Pattern of Vaccine Access, Utilisation and Wastage in India: Evidence from Health Management Information System	MoHFW, GoI	Suresh Sharma	July 2020	January 2021
	Nutritional Status and Prevalence of Anemia among Out-of-School Adolescent Girls in India	MoHFW, GoI	Suresh Sharma	August 2020	February 2021
	Determinants and Patterns of Anemia among Women with Focus on Levels of Hemoglobin Deficiency	MoHFW, GoI	Suresh Sharma	June 2020	February 2021
	Comprehensive Lactation Management Centres in India: The Nourishment Elixir for the Vulnerable Neonates	MoHFW, GoI	Suresh Sharma	April 2020	March 2021
	Impact of Kayakalp Programme in Rajasthan	MoHFW, GoI	Suresh Sharma	June 2020	March 2021
	Suicide Rates in India and its Implications for National Mental Health Programme (NMHP)	MoHFW, GoI	Suresh Sharma	November 2020	March 2021



	Project/Study Title	Funding Agency/ Individually initiated/Ministry	Principal Investigator(s)	Date of Initiation	Date of Completion
	Evaluation of Health Management Information System Data Quality in Uttarakhand	MoHFW, GoI	Suresh Sharma	April 2020	March 2021
	Evaluation of Health Management Information System Data Quality in Delhi State	MoHFW, GoI	Suresh Sharma	April 2020	March 2021
<b>Social change and Social Structure</b>	Social Policy Analysis beyond Development Discourse		PI: Veena Naregal Annigeri, CMDR Dezy Kumari and Arup Mitra	January 2019	August 2020
	Language, Marginalisation and the Tribal Question	Self-Initiated (in collaboration with Lincoln University, UK; Tribal Academy, Gujarat & CSD, Hyderabad)	Veena Naregal	June 2019	September 2020

## Ongoing Projects And Studies

### SANGEETA CHAKRAVORTY

*'Volatility in Indian Stock Market', individually initiated in February 2021.*

The stock market being sensitive to speculation and news is bound to show periodic volatility. Excessive volatility is not conducive for the healthy development of the market, especially for a country like India, and volatility has an impact on the economic growth of the country in the long run. The study of stock market volatility is important for risk management as well as for the development of the financial market. Therefore, periodic econometric analysis of volatility is necessary. This study examines the pattern and characteristics of volatility in the Indian stock market over a period of time. The study will also identify the causes and effects of stock price volatility.

### SAUDAMINI DAS

*'Effects of Heat on the Incomes of Workers in the Informal Sector', funded by Environment for Development (EID) Initiative, University of Gotheburg Initiated in January 2019.*

This study was to end by December 2020 and got extended till December 2021 due to the COVID-19 pandemic. The study measures the impact of extreme heat on loss of income or increase in expenditure (health or any other) of poor workers working in the informal sector and living in slums. One round of survey was conducted in May-June 2019 in some slums of Delhi and one more round will be done in some slums of Delhi when the situation is normal.

*(with others) 'Impact of COVID Lockdown and Post-Lockdown Recovery of Urban Informal Sector (Part 2)', funded by Environment for Development (EID) Initiative, University of Gotheburg. Initiated in July 2020.*

This study tries to find out how slum dwellers coped during the various unlocking periods in 2020. The coping up is measured in terms of the gain in their income towards pre-COVID level, the consumption, work pattern, etc. and how the situation is becoming normal for them. The households were tracked once in 15 days and the data collection is over, where 6 rounds of unlocking period has been covered. The analysis is to be done.

### MAUSUMI DAS

*(with Oindrila De and Zoya Khan) 'A Double Whammy: Lives and Livelihoods of Delhi Riot Victims during the Pandemic', individually initiated in August 2020.*

This project aims to empirically investigate the economic and social impact of the communal riots which took place in North-East Delhi in February 2020. The victimised families suffered dual shocks: while the riots destroyed their properties, the pandemic and associated lockdowns affected their livelihoods. Our objective is to study the effects of these dual income and wealth shocks on the sources of vulnerability of the riot-affected households and their coping strategies.

*(with Subhra Bhattacharya and Priya Tomar) 'Culture and Education', individually initiated in April 2020.*

This project explores the role of culture in the decision to invest in education. We consider an overlapping generations framework where the parents decide whether to invest in the education of the offspring or to leave a lump-sum amount as a material bequest. Although the purpose is to enable the next generation to

have higher consumption, the end result of these two decisions are not the same. Bequests only increase consumption, but education has the externalities of elevated human capital of all the future generations born. At the same time, the preference (relative weightage) for children's education is culturally acquired and parents spend time to inculcate their preference in their children. In this backdrop, we ask the following questions: What is the relationship between the accumulated wealth and investment in education? Do more wealthy households necessarily invest more in education? What is the socially efficient rate of investment in education? Can it be attained by varying the 'cultural' attribute of the households in this society? In any society with a given cultural attribute, can we quantify the extent of inefficiency in terms of state of education and income-wealth generation? Does intra-household inequality aggravate or mitigate this inefficiency? What is the policy implication?

### **PUARNAMITA DASGUPTA**

'Developing an investment case for Kochi under the Integrated Sub-National Action for Biodiversity (NBSAP INTERACT-Bio project)', PI, ICLEI South Asia.

### **NILABJAGHOSH**

*(with M. Rajeshwor, Alka Singh and Yashika Rani) 'Forecasting Agricultural Output using Space, Agro-meteorology and Land based Observation (FASAL)/Real Time Information System of Agriculture Sector (RTISA)', funded by Ministry of Agriculture and Farmers' Welfare, Government of India. Initiated in 2005, updating database for Kharif crop forecasts 2021-22.*

The FASAL project provides early forecasts of crop output using econometric modelling to the Ministry of Agriculture every year for finalising official advance and final estimates published by Government of India. Four forecasts are provided, two (F0 and F1) each for kharif and rabi for major crops at the state level and projected at the all-India level.

#### *Real Time Information Systems of Agriculture Sector*

We are trying to extend the FASAL project for generating more frequent forecasts to support timely decision-making on exports, imports, logistics etc. and to combine econometrics with other scientific and statistical methods as well as field insights to create a comprehensive methodology and collaborative exercise with the ministry's various departments. Consultation with partners and the ministry is in process. Funding is being explored and considered at higher levels of the government.

*(with M. Rajeshwor, Satarupa Chakravarty and Yashika Rani) 'Coordinated Horticulture Assessment and Management using GeoInformatics (CHAMAN)', funded by Mahalanobis National Crop Forecast Centre (MNCFC) under Ministry of Agriculture and Farmers' Welfare, Government of India. Initiated in 2017, updating database for modelling 2021-22.*

The CHAMAN project provides early forecasts of horticulture crop output using econometric modelling to the MNCFC under MoA&FW every year. At this inception stage the project requires collections and the compilation of huge volumes of data and modelling trials. We have submitted six crop production forecasts reports (state-level and All-India) to MNCFC and Ministry of Agriculture and Farmers Welfare. Also initiated district level data analysis.

*(with M. Rajeshwor and Yashika Rani) 'Econometric Crop Yield Modelling with Satellite Remote Sensing under Space Utilisation for Food-security and Agricultural Assessment and Monitoring (SUFALAM) programme', funded by Space Applications Centre (SAC), Indian Space Research Organization (ISRO)*

*SAC. Initiated in 2019, Updating database for modelling 2021-22.*

The SUFALAM project provides forecasts of price and crop output using econometric modelling to the SAC, ISRO.

*(with FASAL CHAMAN Team) 'Land Use Changes from Agriculture to Urban Landscape', individually initiated. Initiated in 2017 under consultation.*

This short study examines the land use and cropping pattern changes taking place in national capital region which is becoming urbanised overtime. Both secondary data and satellite maps created under FASAL are used comparatively.

## **INDRANI GUPTA**

*'Lancet Commission on Gender and Health', initiated in March 2020.*

The Commissioners examine the relationship between gender and health through a series of research outputs with the aim of translating evidence into action.

*'Universal Access to Quality Contraception (UAQ)/ "Saral" project', funded by Population Services International, initiated January 2021.*

IEG's role is to help conceptualise the project, especially the design of the actual interventions; give inputs into the field surveys and survey instruments; and to do the costing of the interventions as they are rolled out.

*'Fiscal Restructuring and its Implications on Health Sector: An Analysis of State Budgets with Focus on UP and Bihar', Funded by Bill and Melinda Gates Foundation, initiated October 2015.*

The significant changes following the 14th Finance Commission (FFC) recommendations and its subsequent acceptance by the Government of India prompted this study to understand how health expenditure priorities changed for five states UP, Bihar, Tamil Nadu, West Bengal and Himachal Pradesh.

## **BRAJESH JHA**

*'Policy for Price Support for Pulse and Oilseeds in India', funded by Ministry of Agriculture and Farmers Welfare (MOA&FW). Initiated in 2017; final report will be submitted in 2021.*

The cobweb phenomenon remains important for agriculture commodities in India. Concerned about the price of commodities for consumers, the government often resorts to imports and uses the price stabilisation fund to ease domestic commodity markets. Unfortunately, farmers are often deprived of the minimum support price (MSP) for their produce. Previous studies show that besides addressing farmers' distress, the MSP also affects the sustainable availability of a commodity. The present study, therefore, reviews the price support programme for farmers with specific objectives like the effect of imports on farm harvest price of agricultural commodities and its effect on production in subsequent years. It also assesses the cost of implementation of the PSS. The study finally discusses a suitable policy environment for an efficient price support programme for farmers.

## **WILLIAM JOE**

*(with Aravinda Guntupalli, J Macdiarmid, William Joe, Kunal Keshri, Sandhya Mahapatra) 'Food Insecurity and Dietary Diversity among Low-income Migrant Workers affected by COVID-19', funded by University of*

*Aberdeen. Initiated on February 1, 2021.*

The lockdown imposed as a response to COVID-19 has had a massive effect on low-income migrant workers in India. This vulnerable group is already at risk of undernutrition; however, there is little evidence on what additional stress has been caused by COVID-19. The aim of the project is to carry out a scoping study to collate primary evidence of the impact of the COVID-19 pandemic on food security and dietary diversity of migrant workers from the states of Bihar, Uttar Pradesh and Delhi. Using secondary data analysis, we will also study the nutritional status of migrant households in India.

*'Provision and Promotion of Spacing Methods under Family Planning Programme in Bihar', funded by Centre for Catalyzing Change, India. Initiated on January 15, 2020.*

This project undertakes a systematic analysis of provisioning and promotion of spacing methods under the family planning programme of Bihar to draw policy insights and develop actionable recommendations. The project focuses on four issues that govern choices and actions around family planning: constraints for spacing; human resources and deployment for promoting spacing methods; socio-cultural preferences and attitudes toward spacing methods; and household circumstances and decision-making for spacing.

*'Evaluation of Women Scientists Scheme', funded by Department of Science and Technology. Initiated on April 1, 2020.*

The Department of Science and Technology (DST) has introduced various programmes to improve participation of women in STEM education, research and professional practice, etc. The major ongoing Women Scientist schemes like WoS-A, WoS-B and WoS-C address key bottlenecks like lack of opportunities suitable for women, career breaks, limited science and technology skill sets, wage disparity, limitations related to relocation challenging work environments, etc. This study examines the data based on interviews of selected Women Scientists to determine the steps required to further strengthen the ongoing schemes and formulate broader policy intervention.

*'Concurrent Monitoring and Technical Support for Anemia Mukh Bharat Programme, India', funded by UNICEF. Initiated on January 1, 2019.*

This project monitors AMB strategy implementation, stock availability position and capacity building approach at various levels across selected states. It also provides supportive supervision by quarterly progress reviews and reporting of establishment- and implementation-related issues to State/District Anemia Mukh Bharat Cells. Further, it examines the drug procurement, logistics, distribution and availability at state level with requirement estimations and forecasting for all beneficiary target groups. Under this project the AMB Dashboard and Web-Portal with key performance indicators identified under the AMB strategy at state and district level is regularly updated.

## **ARUP MITRA**

*'Mobility Study', initiated in 2020.*

Whether time-independent mobility is at place and if so, what are determinants of such mobility are some of the key issues that are dealt with. Using both secondary and primary data we examine the short-run (across quarters) as well as long-run mobility patterns.

*'Inter-sector Wage Differences', initiated in 2020.*

Why wages vary across different activities or alternately, why a common labour market is not at place is the key question. The study proposes to reflect on a variety of micro and macro issues, which may help explain the heterogeneity in the labour market and deter the emergence of a uniform labour market.



## AJIT MISHRA

*'Future DAMS', collaboration with Manchester University, funded by UKERI. Initiated in September 2019.*

*(with Anindo Majumdar), 'Whistleblowing: Policies and Practice', individually initiated in 2020.*

## VEENA NAREGAL

*'Knowledge and Political Legitimacy: Comparative Asian Frameworks c. 1880-1950', funded by ICAS- 'Metamorphoses of the Political' - Thematic Module 1. Initiated in April 2019.*

Focusing on specific historical frameworks, the project is specifically concerned with how the inscription of the modern-political intersected with the creation of new forms of the vernaculars in tandem with the institutionalisation of new knowledge agendas and disciplinary frameworks across emerging national and regional scenarios. Historically, we note a new sensitivity towards the vernacular in the said period is unmistakable amongst both imperial and nationalist stakeholders in expert knowledge. Whether celebrated as the popular or deprecated as the yet-to-be-modern, the vernacular both as the grammatical others and as a key to the hitherto unacknowledged life-worlds excited a whole range of imaginations and actions which proved critical to the changing relationship between knowledge and governance over the twentieth century. It is for these reasons that the project seeks to uncover the overlapping histories of disciplinarisation and laicisation of knowledge in colonial-imperial Asia and the repurposing of the vernacular realms towards the specific demands of these new knowledges.

*'Economic Shutdown, Health Crisis & Escalation of Social Vulnerability: Implications for the Formal/Informal Divide in Post-covid India', individually initiated. Initiated in March 2020.*

Quite apart from the costs of providing health services to fight the pandemic, the revival of economic activity will need to occur in the midst of vast swathes of hunger, escalating social vulnerability, a collapse of demand, radical challenges to food production and disruptions in employment and livelihoods. The Indian economy has been doubly savaged by the effects of the peremptory shutdowns and the migrant exodus of 2020, and now by the huge social and economic costs of the major loss of lives in the second wave of the pandemic since April 2021.

The Indian context has seen major reductions in labour force participation figures since late March 2020. The rescaling of budgets towards economic revival for post-lockdown operations in MSMEs and the organised sector needed to confront major challenges around the availability of work and labour, affecting both the workforce and employers. In view of these challenges, the critical linkages and lines between the formal sector and informal employment in the Indian context are being redefined.

Against this, the project will map for select states linked through labour supply chains the (1) overall costs incurred for providing health services during the first two waves of the pandemic in both 'home' and 'host' states; (2) return migration figures both to home and host states and loss of informal employment in host states between March 2020 and June 2021; and (3) estimated labour shortages or new patterns of labour mobility in various categories of informal employment between home and host states between September 2020 and September 2021.

In analysing these patterns, the project will offer insights on the impact of the economic shutdown/contraction and health crisis on the shifts in the parameters and boundaries of the formal-informal divide through the post-pandemic period for specific states linked through labour supply chains in the Indian context.

*'Internal Migration, Labour Market Dualism and Policy Contexts in post-COVID India', individually initiated on March 2021.*

In India, the post-COVID scenario brought to the fore issues of migrant/informal employment and labour law reform in the most dramatic fashion. As the migrant exodus unfolded with unrelenting grimness last year, there was frequent mention of how the second wave of the COVID-19 pandemic had exposed the 'invisibility' of migrant labour to Indian planners and policymakers. This is stark proof that the new Labour Codes, hurriedly passed in September 2020, hold out not even palliative hopes to the millions of Indian workers in informal employment.

Against this we recall that the debate on labour market dualism has been posed as a choice between formalising informality built around strengthening provisions for social protection to those in informal employment; or the obverse path signalled in labour policy agendas in India since the late 1980s, of increasing levels of informal employment.

The project revisits this debate on ending this labour market dualism in post-COVID India. We review data from select states for the past decade on internal migration and the current available data on post-COVID return migration. From the vantage point of an interdisciplinary perspective, the project reflects upon implications of formalising informality as a policy option to address labour market dualism in the post-COVID Indian context.

#### **CHANDRA SEKHARA RAO NUTHALAPATI**

*'Startups with Innovations: Impacts on Growth, Employment and Welfare', funded by ICSSR, New Delhi. Initiated on April 1, 2018.*

*'Innovations in Food Value Chains and Dynamics of Participation and Welfare Effects', funded by NABARD, Mumbai. Initiated in May 2019.*

#### **BASANTA KUMAR PRADHAN**

*'Carbon Pricing and Technological Progress in Achieving India's NDC Target', individually initiated in May 2020.*

*'A CGE Analysis of Alternative Economic Recovery Scenarios for India', individually initiated in April 2020.*

*'Achieving the SDGs in Odisha: Challenges and Opportunities', individually initiated in 2020.*

#### **SWATI SHARMA**

*'Breaking the Glass Ceiling for Women in Manufacturing Sector: Workplace Ties Perspective', funded by IWWAGE-IFMR. Initiated on October 1, 2020.*

Women's under-representation at managerial roles in the manufacturing sector is often explained as a consequence of supply-side constraints or outside labour market discrimination. However, these studies suffer from sample size issues and ignore the demand-side perspective. This study overcomes both issues by presenting different hypothetical situations to the intermediate managers of garment manufacturing factories to refer workers for promotion. Then, I check for supply-side constraints by comparing 'high potential workers' to a randomly selected sample of 'low potential workers' with an additional focus on the workplace ties and aspirations. I find that women are the preferred type for within workforce promotions and men are preferred for more valuable promotions. In the short run, women can break this 'glass ceiling' by

having a higher number of vertical ties. Management can ask/assign male intermediate managers to specifically mentor more female workers to balance gender representation at managerial levels. These findings apply to the sectors with a history of domination by a particular group in positions of influence and are supported by the invisibility hypothesis.

#### *Networks and labour market outcomes: through gender lens*

Indian policymakers and researchers have been puzzled by the declining female labour force participation for quite some time now. Despite having all the green signals- decline in fertility rates, higher education enrolment ratios, high economic growth; FLFP fell to the lowest level since the post-independence era in 2017 (hovering around 20-25%, India FLFP rate is also one of the lowest in the world) leading to underutilisation of a major resource of the economy. Literature in developing countries has primarily focused on examining factors that usually highlights supply-side constraints (mostly due to out of labour market discrimination and practices social and cultural norms around care-giving responsibilities, burden of domestic duties, lower investment in professional and good quality education, income effects, and lower aspirations). My current research work deviates from this traditional approach and focuses on barriers created by the interplay of workplace networks and managerial practices on women's career mobility (demand-side perspective). I find that women are less likely to form instrumental ties and thus unable to signal their capabilities when the screening process is costly for the management. Thus, they are less likely to be recommended for valuable promotions. Multiple reasons like lower aspirations, lack of awareness, strict cross-gender interaction norms make it difficult for women to overcome historical disadvantages created by 'old boys' network. All this perpetuates perceptions and stereotypes and suppresses women's economic agency further. It is a novel approach with limited work in the Indian context due to lack of data, appropriate sample size and cyclic nature of social conditioning, aspirations and in-and-out of labour market discrimination/practices. I am working on detangling these and relevant policy solutions to break the low aspiration trap for women. My current research extends feedback of demand-side perspective (referral-based policies) on the aspirations of women who are already part of the labour market. Further, I am designing a field experiment to study different intervention policies that can break the lower aspiration trap for women. Specifically, I focus on the question - if the male mentors can act as agents of change in the absence of relevant female role models.

#### **ARCHANA DANG**

*'Identifying determinants of intra-household dual burden', with Dr. Nitya Mittal at Centre for Modern Indian Studies (CeMIS), University of Gottingen.*





**KV Subramanian, Chief Economic Adviser (CEA) interacting with IES probationers. (August 3, 2020)**



**(Top Left) K. VijayRaghavan (Principal Scientific Adviser PMO) on ‘The Role of Science and Technology’, Talk to IES OTs (March 2, 2021)**

# TRAINING PROGRAMMES

IEG has functioned as a centre for specialised teaching and training since its inception.

## IES Training Programme

The 2020-21 Training Programme for IES Officers Batch-2019 was conducted by the IEG on behalf of the Department of Economic Affairs, Ministry of Finance, Government of India. There was a total of 32 IES Officer Trainees.

The programme was inaugurated on August 3, 2020 by Mr. Tarun Bajaj (Secretary, Department of Economic Affairs, Ministry of Finance) and Mr. Rajiv Mishra (Economic Adviser, Department of Economic Affairs, Ministry of Finance).

The programme was held at the IEG on Zoom from August 3, 2020 to February 5, 2021. Several guest speakers presented talks and webinars.

## Talks

Mr. Anindo Majumdar, Former Secretary, CVC, 'Vigilance Administration', Talk to IES Probationers on February 24, 2021.

Dr. K. Vijay Raghavan, Principal Scientific Adviser, PMO, 'The Role of Science and Technology', Talk to IES OTs on March 2, 2021.

## Webinars presented by Guest Speakers to IES Officers 2020

'Macroeconomic Theory' by Mr. Rajiv Mishra, August 7

'Macroeconomic Theory' by Ms. Tusipriya Rajkumari, August 7

'Macroeconomic Theory' by Ms. Sanjana Kadyan, August 7

'Simulation Modelling and Data Visualisation' by Prof. O.P. Wali, August 10, 20, 26 and September 2, 11 and 23.

'Life Changing Technologies' by Ms. Surbhi Jain, August 21

'Functioning of SEBI' by Dr. Prabhas Rath, August 26

'Economics of Competition Law' by Ms. Sangeeta Verma, August 28

'Public Economics' by Dr. Vishal Narain, September 1, 8, and 24, and December 31

'Measuring Potential Output: Issues and Challenges' by Dr. Harendra Behera, September 1

'Frontier Technology' by Mr. Saurabh Thukral, September 2

'Overview of Disaster Risk in India: Trends, Achievement & Challenges' by Mr. Kamal Kishore, September 3

'Institutional Arrangements for DM in India' by Dr. V. Thirupuggazh, September 3

'COVID-19 Response by NDMA' by Mr. Sandeep Poundrik, September 4

'Financing Disaster Resilience' by Ms. Ila Patnaik, September 4

'Functioning of Comptroller & Auditor General of India' by Dr. Nilotpall Goswami, September 7

'Monetary Policy in Theory and Practice' by Prof. Amaresh Samantaraya, September 10

'Skill Development and Entrepreneurship' by Ms. Sunita Sanghi, September 15

'Information Economics' by Prof. Parikshit Ghosh September 22, 23, 24 and 25

'Cyber Security' by Dr. Charu Malhotra, September 25 and 29  
'Trade, Environment and Natural Resources' by Prof. Meeta Keswani Mehra, September 29 and October 9  
'IPR Ecosystem in India' by Prof. Chandni Raina, September 30  
'Emotional Intelligence' by Dr. Vikram Singh Tomar, October 1  
'Behavioural Economics and Public Policy' by Prof. Sujoy Chakravarty, October 7  
'Overview of Global Economy: The Conceptual Framework' by Mr. Anil Bisen, October 9  
'Globalisation of Indian Economy and International Capital Flows' by Mr. Anil Bisen, October 15.  
'Policy Ineffectiveness and the Role of Memory' by Prof. Tapas Mishra October 13.

## 2021

'Understanding Recovery during Economic Volatility' by Dr. Devendra Kumar Pant, January 7.  
'Overview of Foreign Exchange Management Regime in India' by Mr. Jithesh John, January 11.  
'Growth Accounting in India' by Mr. Sarthak Gulati, January 11.  
'Functioning of Infrastructure Ministry' by Mr. Rajat Sachar, January 11.  
'Financial Sector Reforms and Stability' by Dr. Shashank Saxena, January 12.  
'Credit Flow to Priority Sector, Financial Inclusion and Financial Literacy' by Dr. Pragyaansmita Sahoo, January 13.  
'Climate Change Finance' by Mr. Abhishek Acharya, January 13.  
'Fiscal Federalism and Finance Commissions' by Mr. Antony Cyriac, January 14.  
'International Trade and India' by Dr. Geethanjali Nataraj, January 15.  
'India's Services Trade' by Ms. Sangeeta Saxena, January 15.  
'Inflation in India' by Mr. Binod Bihari Bhoi, January 20.  
'IBC and its Functioning' by Dr. Madhoo Sudan Sahoo, January 22.

## Other Training

Online Skill Development Programme on 'Exploring Analytics Using R' by Mr. Vinod K. Tyagi, May 21-24, 2020 at the IEG.

Reorientation Training Programme for NFHS-5, November 17-20, 2020.





**Remaking the Post-Covid World, IEG Founder's Day Lecture by Prof Daron Acemoglu (MIT) (top centre), November 16, 2020; (clockwise, from bottom left) Mr. Naushad Forbes, Shri Tarun Das, Mr. N.K. Singh, Prof Kaushik Basu and Prof Ajit Mishra.**



**Fighting Covid-19: Assessments and Reflections (IEG Insights 2020), book release, June 23, 2020, by (clockwise from top left) Shri N.K. Singh, Shri Tarun Das, Dr. Sudipto Mundle, Prof Ajit Mishra (host) and Prof Rohini Somanathan.**



# 4 IEG Conferences, Workshops and Seminars

## Workshops (held at the IEG on Zoom)

'Law and Economic Development', International Economic Association (IEA) Workshop, January 21-23, 2021.  
Society for Economic Research in India (SERI) Sixth Annual Workshop at the IEG and Centre for Development Economics, Delhi School of Economics, July 7-10, 2020.

## Seminars and Webinars (held at the IEG on Zoom)

'Intra-household Conflict and Female Labour Force Participation', by Dr. Naveen Joseph Thomas, July 3, 2020.

'Economic Impact of the Rohingya Refugees: A Natural Experiment', by Dr. Indranil Dutta, chaired by Prof. Ajit Mishra, July 17, 2020.

'Licensing and the Informal Sector in Rental Housing Markets: Theory and Evidence', by Prof. Andrew Samuel, (co-authored with Jeremy Schwartz and Kerry Tan), August 7, 2020.

'Delegation using forward Induction', by Dr. Swagata Bhattacharjee, August 14, 2020.

'Non-sampling Errors and their Implications: Evidence from NSSO Surveys in Nagaland and Jammu & Kashmir', by Dr. Ankush Agrawal and Dr. Vikas Kumar, chaired by Prof. Mausumi Das, September 4, 2020.

'The Limits and Possibilities of Regulatory Reform in Agricultural Markets: Insights from the Field', by Dr. Mekhala Krishnamurthy, September 11, 2020.

'Motivated Information Agents and Technology Adoption in Agriculture', by Dr. Kyle Emerick, September 17, 2020.

'Export Performance of Labour- and Capital-Intensive Manufacturing Industries in India', by Dr. Sonali Mahapatra, chaired by Prof. Basanta K. Pradhan, September 25, 2020.

'Interlinked Transactions in Credit-output Markets in Indian Agriculture: Testing an Old Model with New Data', by Dr. Sudha Narayanan, October 9, 2020.

'The Importance of Being Earnest: What Explains the Gender Quota Effect in Politics?', by Prof. Sabyasachi Kar, October 16, 2020.

'On Her Own Account: How Strengthening Women's Financial Control Impacts Labor Supply and Gender Norms', by Dr. Rohini Pande October 19, 2020.

'Profiling Human Capital Investment: Earning Patterns from the Periodic Labour Survey', by Dr. Jaivir Singh, November 6, 2020.

'Consumption and Income Dynamics of the Rural Poor: Evidence for Behavioral Consumption Theories using High-frequency Household-level Income-diary Data in Rural Uganda', by Dr. David R. Just, Cornell University, November 12, 2020.

'Impact of Financial Access on Gender Gap in Entrepreneurship and Financial Inclusion: Evidence from India', November 26, 2020.



**Prof Kaushik Basu (L) and Mr. Naushad Forbes (R) in conversation on Unlocking the Indian Economy, May 7, 2020**



**Agricultural Market Reforms: Problems and Prospects, panel discussion, September 29, 2020; panelists (clockwise from bottom left): Prof C.S.C. Sekhar, Dr. P.K. Joshi, Dr. Siraj Hussain, Prof Mahendra Dev and (moderator) Prof Ajit Mishra**



**Agricultural Market Reforms: Market, State and the Farmers, panel discussion, October 30, 2020; panelists (clockwise from bottom left): Mr. Shekhar Tomar, Dr. Devesh Roy, Dr. Bharat Ramaswami, Prof Ajit Mishra, Prof J.V. Meenakshi and (moderator) Prof Mausumi Das**

CDE(DSE)-IEG 'Which Women own Land in India?', by Prof. Bina Agarwal, December 11, 2020.

'Time Preferences and Obesity: Evidence from Urban India', by Dr. Archana Dang January 7, 2021.

IEG-CDE (DSE) Seminar, 'Political Clientelism in West Bengal: Evidence and Budgetary Implications', by Dr. Dilip Mookherjee, Boston University, January 8, 2021.

'Demographic Shocks and Women's Labor Market Participation Evidence from the 1918 Influenza Pandemic in India', by Dr. Bishnupriya Gupta, January 15, 2021.

'Exploring the Convergence Puzzle in India: Combining Neoclassical and Endogenous Models to understand Growth Experience of Indian States', by Anshuman Kamila (IES Probationer, Batch 2019), January 28, 2021.

'Diversity in Development: No Magic Wands, Policy Analysis Beyond Development Economics', by Prof. Veena Naregal, January 29, 2021.

'First National Commission Labour (1966-1969) and Second National Commission of Labour (1999-2002): A Comparative Review', by Dr. Dezy Kumari, February 18, 2021.

'Evaluating Decision Makers Does Gender Matter', by Dr. Lata Gangadharan, February 19, 2021.

'Monetary Policy and Mispricing in the Equity Market', by DR. Sakshi Saini, February 25, 2021.

'Financial Infrastructure and Micro-enterprise Performance: Evidence from India' by Dr. S.K. Ritadhi, Ashoka University, February 26, 2021.

'Costing of Health and Wellness Centres: A Case Study of Gujarat', by Ms. Kanksha Barman and Ms. Avantika Ranjan, March 4, 2021.

'Conflict between Class-divided Communities with Unequal Sharing Rules', by Dripto Bakshi, March 11, 2021.

'Negative Reciprocity or the Golden Rule? Results from an Experiment' by Prof. Ajit Mishra, March 18, 2021.

CDE (DSE) - IEG Seminar on 'Irrigation and Structural Transformation: Evidence from India', by Dr. Aaditya Dar, ISB, Hyderabad, March 25, 2021.

'Ensuring Uninterrupted Supplies to Last Mile' to an Anemia Mukht Bharat, May 20, 2020.

'Strengthening Information Systems to Support Programme Coverage with Quality' for Anemia Mukht Bharat by Dr. William Joe, June 24, 2020.

'Safeguarding the Health Interests and Rights of Women and Girls: What Does the COVID-19 Crisis Entail?', organised by Prof. Suresh Sharma on the occasion of World Population Day (July 11), 2020.

'India's Export Performance in the 21st Century: Performance, Policies, and Prospects', by Dr. Arvind Subramanian and Dr. Shoumitro Chatterjee, chaired by Prof. Ajit Mishra, August 17, 2020.

'Increasing Financial Efficiency of Anemia Mukht Bharat: Lessons and Opportunities', Moderator: Dr. William Joe, November 27, 2020.





Labour Reforms and Employment, panel discussion, November 4, 2020; panelists (clockwise from bottom left): Dr. Amit Basole (Azim Premji University, Bengaluru), Dr. Alakh N. Sharma (Institute for Human Development, Delhi; IHD), Prof Arup Mitra, Institute of Economic Growth (IEG) Prof Ravi S. Srivastava (IHD), Dr. K.R. Shyam Sundar, Xavier Labour Relations Institute, Jamshedpur



Monetary Policy and the Role of the Central Bank at the Time of a Pandemic, panel discussion on February 12, 2021; panelists (clockwise from bottom left): (chair) Prof Ajit Mishra, Prof Mausumi Das, Alfred Schipke, Indranil Bhattacharyya, Dr. Rajeswari Sengupta and Prof Pravakar Sahoo



**Law and Economic Development, International Economic Association (IEA) Workshop, January 21-23, 2021 after 2021, (Clockwise from Left) Naushad Forbes, Ajit Mishra, Dhruv M Sawhney, Kaushik Basu, Luis-Felipe Lopez Calva and Janmejay Sinha**



**Eminent scholars attending the Law and Economic Development, International Economic Association (IEA) Workshop, January 21-23, 2021**



**International Environmental Cooperation: Insights from Game-theoretic Research, INSEE-IEG Lecture by (top left) Prof Michael Finus, University of Graz, December 9, 2020**



**Society for Economic Research in India (SERI) Sixth Annual Workshop, July 7-10, 2020, at the IEG and Centre for Development Economics, Delhi School of Economics**





**Political Clientelism in West Bengal: Evidence and Budgetary Implications, IEG-CDE (DSE) Seminar by (top left) Dr. Dilip Mookherjee, Boston University, January 8, 2021**



**Gender Relations and Prevention of Sexual Harassment at the Workplace: Contours and Issues, talk organised by IEG Gender Sensitisation Committee against Sexual Harassment (GSCASH), February 19, 2021; speakers (clockwise from bottom left): Prof Nilabja Ghosh, Dr. Meena Panicker and Dr. Namita Ranganathan**



**'India's Export Performance in the 21st Century: Performance, Policies, and Prospects', by Dr. Arvind Subramanian and Dr. Shoumitro Chatterjee, chaired by Prof. Ajit Mishra, August 17, 2020.**



**Costing of Health and Wellness Centres: A Case Study of Gujarat, seminar by (bottom left) Ms. Kanksha Barman and (bottom right) Ms. Avantika Ranjan, March 4, 2021**

'Unlocking the Indian Economy', Webinar by Prof. Kaushik Basu and Mr. Naushad Forbes, Moderator: Prof. Ajit Mishra, May 7, 2020.

CII-IEG Webinar on 'The Rs 21 lakh crore Stimulus Package: Did it pack a Punch'? June 30, 2020.

### **Panel Discussions (at the IEG on Zoom)**

'Agricultural Market Reforms: Problems and Prospects'. Panellists: Dr. Mahendra Dev, Dr. P.K. Joshi, Dr. Siraj Hussain, and Prof. C.S.C. Sekhar. Moderator: Prof. Ajit Mishra. September 29, 2020.

'Agricultural Market Reforms: Market, State and the Farmers'. Panellists: Prof. J.V. Meenakshi, Dr. Bharat Ramaswami, Dr. Devesh Roy and Mr. Shekhar Tomar. Moderator: Prof. Mausumi Das. October 30, 2020.

'Labour Reforms and Employment'. Panellists: Prof. Ravi S. Srivastava (Institute for Human Development, Delhi), Dr. K.R. Shyam Sundar (Xavier Labour Relations Institute, Jamshedpur), Dr. Alakh N. Sharma (Institute for Human Development, Delhi), Dr. Amit Basole (Azim Premji University, Bengaluru) and Prof. Arup Mitra (Institute of Economic Growth). November 4, 2020.

'Budget 2021', Panellists: Dr. S. Mahendra Dev, Dr. Ram Singh, Prof. Manoj Panda, and Prof. Indrani Gupta. Chaired by Prof. Ajit Mishra. February 8, 2021.

'Monetary Policy and Role of the Central Bank at the Time of a Pandemic'. Panellists: Prof. Indranil Bhattacharyya, Dr. Rajeswari Sengupta and Prof. Pravakar Sahoo. Chaired by Prof. Ajit Mishra. February 12, 2021.

### **Lectures and Talks (held at the IEG on Zoom)**

'Remaking the Post-COVID World', IEG Founder's Day (November 16) Lecture by Prof. Daron Acemoglu (MIT), 2020.

'International Environmental Cooperation: Insights from Game-theoretic Research', INSEE-IEG Lecture by Prof. Michael Finus (University of Graz), December 9, 2020.

'Gender Relations and Prevention of Sexual Harassment at the Workplace: Contours and Issues' by Dr. Namita Ranganathan, Dr. Meena Panicker and Prof. Nilabja Ghosh, a talk organised by IEG Gender Sensitisation Committee against Sexual Harassment (GSCASH), February 19, 2021.

### **Miscellaneous**

Tribute to Prof. B.D. Dhawan, November 3, 2020.

E-Release of IEG Insights 2020 'Fighting COVID-19: Assessments and Reflections', by Shri N.K. Singh, Shri Tarun Das, Dr. Sudipto Mundle and Prof. Rohini Somanathan, hosted by Prof. Ajit Mishra, June 23, 2020.

Atlas/Dashboard of Nutritional Status of Children in India Geo-visualising Diet, Anthropometric and Clinical Indicators for Children in India

Using the disaggregated data from the fourth NFHS (2015-16), researchers from Geographic Insights Lab at the Harvard Center for Population and Development Studies and the Institute of Economic Growth presented a dashboard and atlas for 31 nutritional indicators that include diet, anthropometry, clinical and service utilisation measures of child nutrition for the districts of India.





Sahoo, Pravakar and Ashwani, 'COVID-19 and Indian Economy: Impact on Growth, Manufacturing, Trade and MSME Sector', 390/2020.

Mishra, Ajit and Samuel, Andrew, 'Does it Matter who Extorts? Extortion by Competent and Incompetent Enforcers', 391/2020.

Dash, Minati, 'Our Place in the Future: An Exploration of Chalki Among Young Men Dispossessed by a Mining Project', 392/2020.

Dayal, Vikram and Murugesan, Anand, 'Demystifying Causal Inference: Ingredients of a Recipe', 393/2020.

Chetty, V.K. and Pradhan, Basanta K., 'The Role of Income Distribution in Financing Human Capital Investment', 394/2020.

Sharma, Suresh and Singh, Ankita, 'Importance of Scholarship Scheme in Higher Education for Students from the Deprived Sections', 395/2020.

Pradhan, Basanta K., Chaudhuri, Chetana and Saluja, M.R., 'Constructing an Input-Output Table for Odisha for 2013-14', 396/2020.

Boratti, Vijayakumar M. and Naregal, Veena, 'Rethinking Linguistic Unification, Spanning Political Heterogeneity: Karnataka Ekikarana Across British India and 'Princely' Karnataka' No. 397/2020.

Devadevan, Manu and Naregal, Veena, 'The Unification Movement in Karnataka: Twin Logics of Cultural and Economic Consolidation', 398/2020.

Sahay, Samraj and Panda, Manoj, 'Determinants of Economic Growth across States in India', 399/2020.

Chowdhury, Samik and Gupta, Indrani, 'Fiscal Space and Expenditure Priorities Post -14th Finance Commission: A Study of Five Indian States', 400/2020.

Mitra, Arup, 'Services Sector in India: Does It Contribute to Population Movement and Poverty Reduction?', 401/2020.

Dasgupta, Dyotona and Saha, Anuradha, 'The Glasses are Tinted: Self-Confidence and Poverty Trap', 402/2020.

Garg, Sandhya and Gupta, Samarth, 'Financial Access of Unbanked Villages in India from 1951 to 2019: A Spatial Approach', 403/2020.

Maiti, Dibyendu and Singh, Prakash, 'Finance and Innovation: Country-level Evidence on Role of Firm Size and Competition', 404/2020.

Mitra, Arup and Singh, Jitender, 'COVID-19 Pandemic and Livelihood Loss: Variations in Unemployment Outcomes and Lessons for Future', 405/2020.

Kumar, Abhishek and Joe, William, 'Cost-Benefit Analyses of Nutrition Interventions in India's Policy Framework', 406/2020.

Brown, Trent, 'Vocational Training, Extension, and the Changing Landscape of Agricultural Education in India', 407/2020.

Jha, Brajesh, 'Farmers' Stress, Income and the Role of Non-Farm Business', 408/2020.

Das, Saudamini and Mishra, Ajit, 'COVID lockdown, how People Managed and Impact of Welfare Schemes on Informal Sector Workers: Evidence from Delhi Slums', 409/2020.

Mitra, Arup and Sharma, Chandan, 'Employment and TFP Impact of Technologies in the Developing World: Domestic versus Imported Expertise', 410/2020.

Bishnoi, Ashwani and Sahoo, Pravakar, 'Belt And Road Initiative: Developments, Economic and Strategic Implications', 411/2020.

Sharma, Suresh and Sharma, Vandana, 'Efficiency Assessment of Maternal Health Services in the Aspirational Districts of EAG States in India: A Data Envelopment Analysis Approach', 412/2020.

Chetty, V.K. and Pradhan, Basanta K., 'Harrod-Domar Formula for Two Sector Growth Models', 413/2020.

Kumar, Neeraj and Mitra, Arup, 'What Causes Poor Child Health in India? Reflections from NFHS-5', 414/2020.

Gupta, Indrani, Trivedi, Mayur, Jani, Vishal, Barman, Kanksha, Ranjan, Avantika and Sharma, Manas, 'Costing of Health and Wellness Centres: A Case Study of Gujarat', 415/2020.

Mitra, Arup, Shrivastav, Puneet Kumar and Singh, Guru Prakash, 'Livelihood Volatility in the Urban Labour Market: Reflections from India's PLFS Data (2017-18)', 416/2020.

Nuthalapati, Chandra S.R., 'Has Open Innovation Taken Root in India? Evidence from Startups Working in Food Value Chains', 417/2020.

Panda, Manoj, Kumar, Abhishek and Joe, William, 'Growth Matters? Revisiting the Enigma of Child Undernutrition in India', 418/2020.

Gupta, Indrani, Chowdhury, Samik, Ranjan, Avantika and Saun, Diwas Singh, 'Priorities in Budgetary Allocations for Health during the Fourteenth Finance Commission: Evidence from Five States', 419/2020.

Sekhar, C.S.C., 'Price or Income Support to Farmers? Policy options and implications', 420/2020.

Kamilam Anshuman and Keswani Mehra, Meeta, 'Exploring The Convergence Puzzle in India Combining Neoclassical and Endogenous Models to Understand Growth Experience of Indian States', 421/2021.

Naregal, Veena and Kumari, Dezy, 'Policy Analysis beyond Development Economics: Questions for Labour Policy Analysis', 422/2021.

Kumari, Dezy and Naregal, Veena, 'Revisiting Reports of the First National Labour Commission & the Second National Labour Commission: Labour Policy Analysis - Part II', 423/2021.

Bhattacharjea, Aditya, and De, Oindrila, 'India's Cartel Penalty Practices, Optimal Restitution and Deterrence', 424/2021.

Das, Saudamini, and Mitra, Arup, 'Does Climate Change Perception Make Livelihood Diversification More Effective? Evidence from the Consumption Mobility Study of Rural Households', 425/2021.



**SAUDAMINI DAS*****Papers Published in Journals and Edited Volumes***

'Environment-Growth Dilemma and Sustainable Development: Walking the Tightrope', *Orissa Economic Journal*, Volume 52, Issue 1, 42-60, 2020.

'Karl-Göran Mäler: the Adi-Guru of Environmental Economics', *Ecology, Economy and Society the INSEE Journal*, 3(2): 223-226, July 2020.

'Does Mangrove Plantation Reduce Coastal Erosion? Assessment from the West Coast of India.' *Regional Environmental Change*, 20, 58 (2020). <https://doi.org/10.1007/s10113-020-01637-2>

'Correction to: Does Mangrove Plantation reduce Coastal Erosion'? Assessment from the West Coast of India.' *Regional Environmental Change* 20, 98 (2020). <https://doi.org/10.1007/s10113-020-01670-1>

**Media publication**

(with Mohapatra, Trilochan and Birthal, Pratap). 'Sustainable Agriculture: Incentive Ecosystem Services', *Financial Express*. November 9 (Monday), 2020

<https://epaper.financialexpress.com/c/56235822>

**VIKRAM DAYAL*****Papers Published in Edited Volumes***

2021. 'Uncertainty and Causality in Public Policy: The Cases of Heart Disease and Climate Change'. In Dasgupta P., Saha A., Singhal R. (eds) *Sustainable Development Insights from India: Selected Essays in Honour of Ramprasad Sengupta*. Springer.

**MAUSUMIDAS*****Papers Published in Journals and Edited Volumes***

(with Kar, Sabyasachi) 'Untangling Policy Mishaps: How to make Policies More Effective during a Pandemic', *Economic and Political Weekly*, February 13, 2021.

(with Balakrishnan, Pulapre, and Parameswaran, M) 'Growth Transitions in India: Myth and Reality', *Economic and Political Weekly*, March 13, 2021.

(with Chakraborty, Shankha) 'The Long Shadow of Epidemics', in Bhattacharyya, Rajib, Ghosh Dastidar, Ananya and Sikdar, Soumyen (ed.), *The COVID-19 Pandemic, India and the World: Economic and Social Policy Perspectives*, Routledge, New York, forthcoming.

**PUARNAMITA DASGUPTA*****Book***

(with Roy Saha, Anindita, and Singhal, Robin (eds): *Sustainable Development Insights from India*, Springer, 20 March 2021.

***Journal Articles***

(with K. Srikanth) 'Achieving the Climate Goal with Intergovernmental Transfers to the Forestry Sector: Insights

from the Indian Experience,' Climatic Change (Springer), 164, 45 (February 2021). DOI: 10.1007/s10584-021-03016-0

(with K. Srikanth) 'Reduced Air Pollution during COVID 19: Learnings for Sustainability from Indian Cities', Global Transitions, Volume 2, November 2020, 271-282. <https://doi.org/10.1016/j.glt.2020.10.002>

(co-authored) 'Transdisciplinary Research Priorities for Human and Planetary Health in the Context of the 2030 Agenda for Sustainable Development', International Journal of Environmental Research and Public Health. November 2020; 17(23): 8890. <https://doi.org/10.3390/ijerph17238890>

(co-authored) 'Guidelines for Modelling and Reporting Health Effects of Climate Change Mitigation Actions', Environmental Health Perspectives Vol. 128, No. 11, 10 November 2020. <https://doi.org/10.1289/EHP6745>

(co-authored) 'Health Awareness and the Transition Towards Clean Cooking Fuels: Evidence from Rajasthan', PLOS ONE, April 2020. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0231931>

#### *Book Chapters/Contributions to Edited Volumes*

'Unbundling Air Pollution Concerns: A Closer Look at Socio-economic Factors,' in Dasgupta, P., et al. (eds.) Sustainable Development Insights from India, pp 1-20, Springer, March 2021.

'Introducing Contemporary Development and Sustainability Concerns for India', in Dasgupta, P., et al. (eds.) Sustainable Development Insights from India, Springer, March 2021.

(with De, Oindrila), 'Sustainable Recovery with Jobs and More: This is a Pandemic, Not a War,' in Fighting COVID 19: Assessments and Reflections, Chapter 7IEG, Delhi, May 2020. [http://www.iegindia.org/upload/news/040620\\_123210pCov19.pdf](http://www.iegindia.org/upload/news/040620_123210pCov19.pdf)

#### *Popular media*

(with Michaelowa, K., et al.) 2020. 'Clean Fuels for a Health Makeover in Rural India', NextrendsAsia, June 10, 2020. <https://nextrendsasia.org/clean-fuels-for-a-health-makeover-in-rural-india/>

'Time to build up the labour force: Arm them with adequate job security and skills', Financial Express, June 23, 2020.

### **OINDRILADE**

#### *Article in the Media*

(with Dasgupta, Purnamita). 'Time to build up the labour force: Arm them with adequate job security and skills', Financial Express, June 23, 2020.

#### *Chapters Published in Edited Volumes*

(with Dasgupta, Purnamita). 'Sustainable Recovery with Jobs and More: This is a Pandemic, Not a War in IEG insights, 2020 (Fighting COVID 19 - Assessments and Reflections)'.

### **NILABJAGHOSH**

#### *Papers Published in Journals and Edited Volumes*

(with Singh, Alka, Chakravarty, Satarupa, Rajeshwor, M. 2020. 'Food Production in Indo-Gangetic Plains: To Understand the Role of Water and Hydrology', International Journal of the Science of Food and Agriculture, 4(4), 413-426. <http://www.hillpublisher.com/UpFile/202011/20201120182424.pdf>

#### *Article in the Media*

'Waiting for the Wheat Harvest in Times of a Pandemic'. BusinessLine, April 27, 2020. <https://www.thehindubusinessline.com/economy/agri-business/waiting-for-the-wheat-harvest-in-times-of-a-pandemic/article31442397.ece>



'Appropriate Decisions could Lead to Bi-directional Rural-urban Migration'. Trade Promotion Council of India, April 13, 2020. <https://ibt.tpci.in/blogs/appropriate-decisions-could-lead-to-bi-directional-rural-urban-migration/>

'Two Concerns in the Farm Bills that may have Escaped Attention', BusinessLine, October 16, 2020. <https://www.thehindubusinessline.com/opinion/two-concerns-in-the-farm-bills-that-may-have-escaped-attention/article32869816.ece>

'Year of Promises and Challenge', Businessworld, May 27, 2021. <http://www.businessworld.in/article/Year-Of-Promises-And-Challenge/11-01-2021-364128/>

## INDRANI GUPTA

### *Papers Published in Journals and Edited Volumes*

(with Cookson, Richard, et al.). 2021. 'The Inverse Care Law Re-examined: A Global Perspective', The Lancet. February 27.

(with Barman Kanksha). 2021. 'Health, Development and HIV in India', Oxford Research Encyclopedia of Asian History, Oxford University Press.

(with Ramandeep). 2020. 'Risk and Prevention of Infectious Disease', In Handbook of Labor, Human Resources and Population Economics, (eds), Zimmermann K.F. Springer.

(with Bukhman, G., et al.). 2020. 'The Lancet NCDI Poverty Commission: Bridging a Gap in Universal Health Coverage for the Poorest Billion', The Lancet, September.

(with Chowdhury, Samik, and Ranjan, Avantika). 2020. 'Health Investment Priorities in India: A New Methodology-based Analysis of State Budgets', Journal of Health Management, September 16.

(with Baru, Rama). 2020. 'Economics & Ethics of the COVID-19 Vaccine: How Prepared are we?', Indian Journal of Medical Research, July & August 152 (1 & 2): 153-155.

(with Chowdhury Samik, Roy Abhijit and Ramandeep). 2020. 'Ayushman Bharat: Cost and Finance of the Prime Minister's Jan Arogya Yojana', Economic and Political Weekly, Vol. 55, No. 36, 5 September.

'Relying on Serendipity is not Enough: Building a Resilient Health Sector in India', Indian Economic Review, August 2020.

(with Singh, Damini). 'Cost-Effectiveness of Antiretroviral Therapy: A Systematic Review', Indian Journal of Public Health, April 2020, 64 (Supplement): S32-S38.

## BRAJESH JHA

### *Papers Published in Journals and Edited Volumes*

'Policies for Non-Farm Business to Increase Farmers Income'. Journal of Governance and Policy Analysis (invited), 2(1) pp 6-28, 2020, ABV Institute of Governance, Bhopal, Madhya Pradesh.

(with Choudhury, Atrayee). 2020. 'Towards Improving Predictability of MGNREGA Expenditures', Issue No. 18 (August), p 2.

'The Possible Implications of Farm Acts 2020'. 2020. Issue No.19 (October), p 2.

Brief research papers published in 2020 in various issues of Agro-Economic Policy Brief from Centre for Management in Agriculture, IIM Ahmedabad, 'Migration Mitigating Development for Rural Regions', Issue No. 16 (April 2020), p 5.

## WILLIAM JOE

### *Papers Published in Journals and Edited Volumes*

(with Berenike, T, Sudharsanan, N., Karlsson O., Subramanian S.V. and De Neve, Jan-Walter) 2020. 'Children's Education and Parental Old-age Health: Evidence from a Population-based, Nationally Representative Study in India', *Population Studies*, Vol. 75, Issue No. 1, July 16.

(with Rajpal, S., Subramanyam, M.A., Sankar, R., Sharma, S., Kumar, A. and Subramanian, S.V.) 2020. 'Utilisation of Integrated Child Development Services in India: Programmatic Insights from National Family Health Survey, 2016', *International Journal of Environmental Research and Public Health*, May 4,17 (9): 3197.

(with Rajpal, S., Kim, R., Kumar, A. and Subramanian, S.V.) 2020. 'Child Undernutrition and Convergence of Multisectoral Interventions in India: An Econometric Analysis of National Family Health Survey 2015-16', *Frontiers in Public Health*, 22 April. <https://doi.org/10.3389/fpubh.2020.00129>

(with Liou, L., Kumar, A. and Subramanian, S. V.) 2020. 'Inequalities in Life Expectancy: An Analysis of 201 Countries, 1950-2015', *Social Science & Medicine*, 253 (6): 112964.

(with Joshi, P. and Rajpal, S.) 2020. 'Private Sector in Health', *India Health Report 2020* (eds) A. Mehdi and S. I. Rajan, Oxford University Press, New Delhi.

(with Saikia, N., Saha, A. and Bora, J. K.) 2020. 'Immigration and Bengali Population in Assam: Evidence from Direct and Indirect Demographic Estimation', in *Population Dynamics in Eastern India and Bangladesh: Demographic, Health and Developmental Issues*, (ed) Chattopadhyay, A., and Ghosh, S., pp. 393-416, Springer Nature, Singapore.

(with Verma, Ajay Kumar) 2021. 'Association of Basic Vaccination with Cognitive and Learning Ability among Children: Insights from the India Human Development Survey, 2004-05 and 2011-12', *Journal of Biosocial Science*.

(with Rajpal S., Kim J., Kim R. and Subramanian, S. V) 2021. 'Small Area Variation in Child Undernutrition across 640 Districts and 543 Parliamentary Constituencies in India', *Scientific Reports*.

(with Rajpal, S., Kim, R. and Subramanian, S. V.) 2020. 'Does the Choice of Metric Matter for Identifying Areas for Policy Priority? An Empirical Assessment using Child Undernutrition in India', *Social Indicators Research*.

(with Kim, Rockli, Liou, Lathan, Xu, Yun, Kumar, Rakesh, Leckie, George, Kapoor, Mudit, Venkataramanan, R, Kumar, Alok and Subramanian S. V.) 2020. 'Precision-weighted Estimates of Neonatal, Postneonatal and Child Mortality for 640 Districts in India, National Family Health Survey 2016', *Journal of Global Health*.

(with Rajpal, S., and Subramanian, S. V.) 2020. 'Living on the Edge? Sensitivity of Child Undernutrition Prevalence to Bodyweight Shocks in the Context of the 2020 National Lockdown Strategy in India', *Journal of Global Health Science*.

(with Kumar, A., Rajpal, S., Mishra, U. S. and Subramanian, S. V.) 2020. 'Equal Risk, Unequal burden? Gender Differentials in COVID-19 Mortality in India', *Journal of Global Health Science*.

(with Rajpal, S., Kim, R. and Subramanian, S. V.) 2020. 'Stunting among Preschool Children in India: Temporal Analysis of Age-Specific Wealth Inequalities', *Journal of Global Health Science*.

## AJIT MISHRA

### ***Books forthcoming (in press)***

(with Basu, Kaushik) Law and Economic Development: Behavioral and Moral Foundations of a Changing World, Palgrave Macmillan, New York.

(with Jha, Chandan and Sarangi, Sudipta) Political Economy of Corruption, Routledge.

### ***Articles in the Media***

'Let Schools Open', The Indian Express, December 18, 2020.

'What is in a Name?' The Indian Express, June 2, 2020.

'Notes from a Recovery', The Indian Express, April 9, 2020

## ARUP MITRA

### ***Book Published***

2021. Urban Headway and Upward Mobility in India, Cambridge University Press.

### ***Books forthcoming (in press)***

(with Das, Saudamini, Tripathi, A., Sarangi T. and Ranganathan, Thiagu. Climate Change, Livelihood Diversification and Well-Being: The Case of Rural Odisha, Springer.

### ***Papers Published in Journals and Edited Volumes***

(with Bhattacharya, Sujatra) 2020. 'Fourth Industrial Revolution and India's Employment Problem', International Journal of Social Economics. <https://www.emerald.com/insight/0306-8293.htm>

'Structural Shifts, Technology Import and Employment'. 2020. Asian Profile, vol. 48, No. 4, December.

(with Joshi, Seema) 2020. 'Reflecting on Gendered Effect of COVID-19 in the Backdrop of PLFS 2018-19 in India', BRIEF - South Asia Watch, September. <http://briefindia.com/wp-content/uploads/2020/08/Reflecting-on-Gendered-Effect-of-COVID-19-in-the-Backdrop-of-PLFS-2018-19-in-India.pdf>

'Long-term Growth-employment Relationship in India'. 2021. Journal of Asian Development Research, February.

(with Sabyasachi Tripathi) 2021. 'Rural Non-Farm Sector: Revisiting the Census Towns'. Environment and Urbanization ASIA. DOI: 10.1177/0975425321990324

(with Parida, P.C., and Pradhan Ch., Kailash 2021 'The Missing Middle Phenomenon in Indian Manufacturing Sector: Myths or Realities'? Journal of Economics and Development, April. <https://www.emerald.com/insight/content/doi/10.1108/JED-09-2020-0120/full/html>

'Employment Modelling in India', econmodels.com, September 23, 2020.

### ***Book Chapters***

2020. Chandan Sharma and Arup Mitra. Employment Impact of Technologies in the Developing World in Klaus F Zimmermann Ed. Handbook of Labour, Human Resources and Population Economy. Springer: Switzerland. <https://link.springer.com/referencework/10.1007/978-3-319-57365-6>

2020. Arup Mitra, and Jitender Singh. 'Structural Change in Employment and Unemployment in India' in the book Sustainable Development Goals: An Indian Perspectives Hazra, Somnath; Bhukta, Anindya (Eds.). Springer, pp 129-138. <https://www.springer.com/gp/book/9783030424879>

2020. 'Shared Prosperity and Universalisation of Secondary Education' in the book Universal Secondary Education in India: Issues, Challenges and Prospects, Tilak, Jandhyala B G (Ed.), pp. 355-364. <https://www.springer.com/gp/book/9789811553653>

2020. Jitender Singh and Arup Mitra. 'Who Creates Large Number of Good Jobs in India's Organised Manufacturing? Small Versus Large and Startups Versus Old'. In Accelerators of India's Growth Industry, Trade and Employment: Festschrift in Honor of Bishwanath Goldar Edited by Aggarwal, Suresh Chand, Das, Deb Kusum, Banga, Rashmi. Springer.

2021. Neeraj Kumar Arup Mitra. 'Health of the Children: National Family Health Survey-5'. New York: IndraStra Global. (ISBN: 9798720437350)

2021. 'Informal Economy in India: Persistence and Meagreness' in Labour Questions in the Global South, Eds. by Praveen Jha, Walter Chambati and Lyn Ossome. Published by Palgrave Macmillan, Singapore.

### ***Working Paper other than IEG Working Paper Series***

Arup Mitra, Guru Prakash Singh and Puneet Kumar Shrivastav. 'How Unstable the Sources of Livelihood Are? Analysis Based on Periodic Labour Force Survey data (2017-18)' Published by South Asian University. Working Paper Number: SAUFE-WP-2020- 008.

Arup Mitra and Sabyasachi Tripathi. 'Does City Size Matter for Migration and Poverty: A Study of million-plus Cities in India'. Published in South Asian University working paper, WP. No.: SAUFE-WP-2020-005.

## **CHANDRA SEKHARA RAO NUTHALAPATI**

### ***Papers Published in Journals and Edited Volumes***

2021. Reardon, Thomas, Amir Heiman, Liang Lu, Chandra S.R. Nuthalapati, Rob Vos, David Zilberman. 'Pivoting' by Food Industry Firms to Cope with COVID-19 in Developing Regions: e-commerce and 'Co-pivoting' Delivery-intermediaries', *Agricultural Economics*, 52(2).

2021. Reardon, Thomas, Ben Belton, Saweda Liverpool-Tasie, Liang Lu, Chandra S.R. Nuthalapati, Oyinkan Tasie, David Zilberman. 'E-Commerce's Fast-Tracking Diffusion and Adaptation in Developing Countries', *Applied Economic Perspectives and Policy*, 43(2): 1-17.

2020. Nuthalapati, Chandra S.R., K. Srinivas, Neha Pandey and Rajeev Sharma. 'Startups with Open Innovation: Accelerating Technological Change and Food Value Chain Flows in India', *Indian Journal of Agricultural Economics*, 74(3): 414-438.

2020. Nuthalapati, Chandra S.R., R. Sutradhar, Thomas Reardon, and Matin Qaim. 'Supermarket Procurement and Farmgate Prices in India', *World Development*, 134, 105034, 1-14.

2020. Srinivasan, T. Jeena and Chandra Sekhara Rao Nuthalapati. 'Development-induced Displacement Risks and Coping with Resettlement', *Journal of Rural Development*, 39(2): 169-186.

2020. Reardon, T., Mishra, A., Nuthalapati, C.S.R., Bellemare, M.F., and Zilberman, D. 'COVID-19's Disruption of India's Transformed Food Supply Chains', *Economic and Political Weekly*, 55(18): 18-22.

## **PRAVAKAR SAHOO**

### ***Papers Published in Journals and Edited Volumes***

2020. Pravakar Sahoo and Ashwani. 'COVID-19 and Indian Economy: Impact on Growth, Manufacturing, Trade and MSME Sector', *Global Business Review*, Sage, pp 1-25.

2021. 'India's Energy Mix and the Pathways to Sustainable Development', National Bureau of Asian Research.

2021. 'Does Impact of FPI on Economic Growth vary across Countries?', forthcoming in book titled 'Studies in International Economics and Finance - Essays in Honour of Prof. Bandi Kamaiah' Edited by Prof. Yoshino, Springer.

### **Policy Brief**

'COVID-19 and Indian Economy', IEG Policy Brief, 15/2020, July.

### **Short Papers and Newspaper Articles**

'Necessary to Stop reverse Migration', Financial Express, April 28, 2021.

'Policy Response to Minimise the Fallout of COVID-19 on Trade and MSMEs' in report 'COVID-19 Challenges for the Indian Economy; Trade and Foreign Policy issues', 2020, pp. 161-165.

'The Next Economy', Indian Express, November 13, 2020.

'G-20: Time to Act' in Pragativadi (Odiya newspaper), November 21, 2020.

'Self-Reliant India', Pragativadi (Odiya newspaper), October 14, 2020.

'It's time the State Govt Rethinks Policy of Curfew, Shut Down' Times of India, June 16, 2020.

## **SAKSHI SAINI**

### **Book**

2020. Sanjay Sehgal, Wasim Ahmad, Piyush Pandey, Sakshi Saini. 'Economic and Financial Integration in South Asia: A Contemporary Perspective', Routledge, October.

### **Paper Published in Journals and Edited Volumes**

2020. Sakshi Saini, Sanjay Sehgal and Florent Deisting. 'Monetary Policy, Risk Aversion and Uncertainty in an International Context' (Referred), Multinational Finance Journal, 24(3-4).

2020. Sanjay Sehgal, Sakshi Saini, Piyush Pandey. 'Economic and Financial Integration in the South Asian Region: A Survey', Economic and Financial Integration in South Asia: A Contemporary Perspective, Vol.1/2020/Taylor and Francis (pp. 16-32).

2020. Sanjay Sehgal, Sakshi Saini, Piyush Pandey. 'Interdependencies amongst Short- and Long-term Debt Markets of South Asia' Economic and Financial Integration in South Asia: A Contemporary Perspective, Vol.1/2020/Taylor and Francis (pp. 115-126).

2020. Sanjay Sehgal, Sakshi Saini, Piyush Pandey. 'Role of China in South Asian financial integration', Economic and Financial Integration in South Asia: A Contemporary Perspective, Vol.1/2020/Taylor and Francis (pp. 148-167).

## **C.S.C. SEKHAR**

### **Paper Published in Journals and Edited Volumes**

2020. 'Agriculture during the COVID-19 Pandemic: Problems and Prospects', Agricultural Situation in India, Vol. LXXVII April 2020 No. 1, pp. 22-28.

### **Articles in Media**

'The Way Forward on MSP: Important to Explore Fiscally Prudent, Administratively Convenient Options', Financial Express, March 1, 2021.

'In Farmers' Protest, the Core is Procurement', The Hindu, December 4, 2020.  
'Making Agricultural Market Reforms Successful', The Hindu, August 27, 2020.  
'Agricultural Policy in the Shadow of Pandemic: Whence and whither'? International Food Policy Research Institute (IFPRI), June 22, 2020.  
'Fertile Ground for more Reforms', Financial Express, June 9, 2020.  
'Ensuring Food Security during the Pandemic', Economic Times, May 11, 2020.  
'COVID-19 Crisis: Farming Needs Urgent Action', Financial Express, April 20, 2020.

### ***Policy Brief***

'Agriculture in the Shadow of Pandemic: Some Implications for Policy', Agro-Economic Policy Brief, CMA, IIM Ahmedabad, April 16, 2020.

## **SURESH SHARMA**

### ***Books forthcoming (in Press)***

Suresh Sharma & Dr. Dipanjali Haloi, 'Infant and Child Mortality in Assam-Demographic and Socio-economic Interrelations', Synergy Books India, New Delhi, forthcoming.

### ***Papers Published in Journals and Edited Volumes***

(with Johny KD) 2020. 'Is Social Distancing a Good Strategy to contain COVID-19 for slums in India'? Demography India, Vol. 49, Special Issue (), pp. 113-119



## Faculty: Other Academic Contributions, Lectures, Trainings, Conferences, Visiting

### SAUDAMINI DAS

#### Lectures

'Economic Consequences of Marine Plastic Pollution in India', at Refresher Course on Environmental Science, Human Resource Development Centre, Utkal University, March 23, 2021.

'Social Cost Benefit Analysis', at QIP (Quality Improvement Programme) short-term course on Quantitative Approaches to Decision-Making, IIT Kanpur, March 13, 2021.

'Ecosystem Based Approach for Sustainable Coastal Management in the context of Climate Change', at 9th International Conference on Technology, Innovation and Management for Sustainable Management (TIMS) 2021, ITM University, Gwalior, February 19, 2021.

'Climate Adaptation Governance in India-Making Small Farmers Adapt', in Climate Governance class of Nives Dolsak, Stan and Alta Barer (Prof. in Sustainability Science & Director, School of Marine and Environmental Affairs), University of Washington, Seattle, February 10, 2021.

'Concept of Total Economic Valuation (TEV) in Forestry', during one-week online training course on Ecosystem Approach to Forest Management (EAFM), Central Academy for State Forest Service, Ministry of Environment, Forest and Climate Change, Dehradun, November 23, 2020.

'Mangroves & Cyclones,' in Refresher Course on 'Towards Sustainable Environment' Centre for Professional Development in Higher Education (CPDHE), UGC-HRDC, University of Delhi, November 2, 2020.

'Valuation of Mangrove Ecosystem Services,' in 41st PG Diploma Course in Advanced Wildlife Management, Wildlife Institute of India, Dehradun, Uttarakhand, June 24, 2020.

#### Papers presented

'Effect of Extreme Heat and Humidity on Income and Health Expenditure of Informal Sector Workers in New Delhi, India' at Environment for Development (EfD) Initiative 14th Annual Virtual Meeting, November 17, 2020.

'Should we Conserve Mangroves to Build Community Resilience to Storms? Evidence from Valuation of Storm Damage Averted by Mangrove', Writeshop for the edited book Climate Change and Community Resilience: Insights from South Asia, October 8, 2020.

'Socio-Economic analysis of the Meghna Basin - India,' mid-term report presentation at online Meghna meeting, May 20, 2020.

'Barak-Meghna Basin Socio-Economic Analysis: India', final report presentation.

#### Discussant

'Air Pollution Exposure and COVID-19: A Look at Mortality in Mexico City using Individual-level Data,' for Development (EFD) Initiative 14th Annual Virtual Meeting, November 17, 2020.

'Climate Resiliency, Social Heterogeneity, and Location Specific Learning Effects from the Perspectives of Coastal Areas of Bangladesh,' Writeshop for the edited book Climate Change and Community Resilience: Insights from South Asia, October 8, 2020.

#### Webinar

'Meghna Conversation 1: Celebrating the Meghna River - A Shared Heritage', September 3, 2020.

## **MAUSUMI DAS**

(co-authored with Arora, Priyanka) 'Culture and Market: A Tale of Two Institutions', paper accepted for presentation at the 19th World Congress of the International Economic Association to be held in Bali in July 2020 (the conference was postponed to July 2021 due to the pandemic).

Teaching IES probationers, August 2020 to February 2021.

(with Afridi, Farzana, Jain, Tarun and Mishra, Ajit) co-organised SERI Annual Workshop, July 2020.

Associated Editor of Economic Modelling, September 2020.

## **PURNAMITA DASGUPTA**

Member, Scientific and Technical Advisory Group for the compilation of Environmental Accounts in India, National Programme for Improving Quality of Statistics in India (NPIQSI), MoSPI, GoI.

Member, Advisory Group, The Future Earth Health Knowledge-Action Network, Future Earth

## **OINDRILADE**

(with Bhattacharjee, A) 'India's Cartel Penalty Practices, Optimal Restitution and Deterrence', paper presented at Law and Development Workshop (International Economic Association, January 2021) and Cartel Working Group Workshop (Competition Commission of India, March 2021).

Taught microeconomics at IES Probationary Officer Training (August 2020 to February 2021).

## **VIKRAM DAYAL**

Taught public economics in the IES training programme at IEG.

Masterclass: Using R for Environmental Economics, 6th International Conference on South Asian Economic Development, 2021, South Asian University, 26 Feb 2021.

<https://www.youtube.com/watch?v=yj6h0-iLm6s&t=413s>

Keynote speaker: Exploratory Data Analysis using R in Faculty Development Programme organised by Mahatma Hansraj Faculty Development Centre and Mata Sundari College for Women, University of Delhi, January 7, 2021.

## **NILABJA GHOSH**

Participated and presented in a meeting on the prospects of IEG under FASAL scheme under the chairmanship of Secretary, DAC&FW, March 11, 2020.

Presented in webinar on 'Data Analysis and Real-Time Forecasting for Agriculture Sector' IFFCO Kisan Sanchar Limited, Delhi, April 27, 2020

Invited solo lecture 'Agro-Centric Economic Development in Post-COVID India' at webinar series 'Ride the Tide of COVID with a Ray of Hope' organised by Surendranath (Ripon) College Kolkata, June 16, 2020.

<https://www.youtube.com/watch?v=HpXYEbi0SkE>

Participated and presented on FASAL scheme covering methodology of forecast, crops coverage and other aspects under the chairpersonship of Sr. ESA (video conference), July 21, 2020.

Attended a meeting to discuss the issues regarding the development of Model by MNCFC under the chairmanship of Sr. ESA, DES, DAC&FW, November 11, 2020.

Attended annual review meeting of FASAL & CHAMAN Projects under chairmanship of Dr. Srabani Guha (Sr. Economic and Statistical Adviser) at MNCFC and presented on 'From Early Season Towards Frequent Crop Forecasting: Econometric Model', January 15, 2021.

***Meetings/discussions on Integrated Estimate for Real Time Information System on Agriculture (RTISA) (attended or made presentations at online)***

Integrated Estimate for RTISA at MNCFC RTISA and presented on 'Analysis of Historical Data for Forecasting Agricultural Output Using Space, Agro-meteorology and Land Based Observation (FASAL) - RTISA', December 9, 2020.

Issues regarding the development of a model for the RTISA under the chairmanship of Sr. ESA, DES, DAC&FW and made a presentation, November 3, 2020.

Discussion on Integrated Estimate for RTISA under Chairmanship of Sr. ESA DES and presented on RTISA, December 9, 2020.

First meeting on Integrated Estimate for RTISA under Chairmanship of Sr. ESA, DES, MoA&FW and made a presentation, January 28, 2021.

Presented 'Progress on RTISA', February 26 and March 8, 2021.

Attended and presented on 'Progress on RTISA', March 19, 2021.

Discussed technical issues pertaining to data and variables used for crop forecast by IEG under RTISA under the Chairmanship of Sr. E.S.A, March 24, 2021.

Third meeting for finalisation of production forecast for RTISA under the Chairmanship of Sr. E.S.A., April 13, 2021.

**INDRANI GUPTA**

Taught four modules on health economics and policy to the students of International School of Business, September 2020.

Plenary talk on 'On the Road to UHC'? at 48th National Conference of the Indian Association of Preventive and Social Medicine', March 21, 2021.

Lecture on 'Social Science Research Methodology'. ISID, Delhi, March 16, 2021.

Gave a talk on 'Health budget 2021-22', IEG, February 12, 2021.

'Pandemic Preparedness and Response by Nicole Hassoun', discussant on paper at IEA Workshop on Law and Development, January 21, 2021.

'Dealing with a Pandemic: How Prepared is India's Health Sector?', lecture at St Xavier's College, Jaipur, November 3, 2020.

'Pandemic and India's Health Sector', lecture at Jesus and Mary College, Delhi, October 28, 2020.

**BRAJESH JHA**

'Constraints in Agricultural Production in India', online lecture for LAMPS, PRS, Delhi.

Panel Discussion on PM Garib Kalyan Rojgar Yojana for Rajya Sabha TV in Des-Desantar, June 25, 2020.

Panel Discussion on PM Garib Kalyan Ann Yojana, Ministry of Information and Broadcasting, Bihar, Patna, July 7, 2020.

### **Trade Promotion Council of India (TPCI) interview-based article on**

- i) Migration and Development on April 10, 2020.
- ii) Farm Bills and Agriculture on September 22, 2020.
- iii) Agriculture Labour and Mechanisation on October 5, 2020

### **Interview-based article in Prabhat Khabar on**

- i. Budget 2021-22 on February 2, 2021.
- ii. Kharid se behtar hua krishi shetra on August 25, 2020.
- iii. Krishi vikas ko chahiye thos pehal on November 20, 2020.

Papers in the 80th Conference (Outline, Rapporteur's Report and Suggestions of the topic / theme on Institutions for Agriculture Development) also chaired one of the themes on the 80th Conference of Indian Society of Agricultural Economics held in Coimbatore on February 2021.

### **WILLIAM JOE**

Measuring Health System Resilience in India in the context of COVID 19 pandemic, IIPS International Seminar on Pandemics and Population Dynamics, March 18-20, 2021, IIPS, Mumbai (virtual event).

Way forward for Anemia Mukht Bharat in India, 48th Annual Conference of Indian Association of Preventive and Social Medicine, March 19-21, 2021 at PGIMER, Chandigarh (Virtual Mode).

Success stories and challenges of Anemia Mukht Bharat (AMB), AMB score card and ranking of States/UTs, 64th Annual National Conference of the Indian Public Health Association, February 29-March 2, 2021, AIIMS, New Delhi.

Tackling Obesity in Pregnancy Landscaping Study on Prevalence, Determinants, Regulatory and Programme Options in India, Strengthening maternal nutrition screening and services in antenatal care in India, e-dialogue series, February 26, 2021, National Institute of Nutrition, Hyderabad (virtual event).

Pediatric Anemia in India: Current Scenario, Challenges, and Solutions, January 28, 2021, AIIMS, New Delhi (virtual event).

Maternal and Child Nutrition, (Virtual event) Lecture, UGC Refresher Course in Geography and Environmental Studies, Jamia Millia Islamia, New Delhi, November 17, 2020.

Mixed Methods Research, (Virtual event) Lecture, MBA (Rural Management), IIMR University, Jaipur, October 29, 2020.

Anemia Mukht Bharat, (Virtual event) Lecture, MBA (Pharmaceutical Management), IIMR University, Jaipur, September 9, 2020.

Promotion of Family Planning in Bihar, Virtual Webinar 'The Need for a Focused Pathway towards Improving Information and Access of Spacing Contraception for Family Planning among Young Population in Bihar', Centre for Catalyzing Change, New Delhi, September 25, 2020.

Co-Chair: Session on 'Systems strengthening: Human resources, infrastructure, and financing', 3rd Conference on 'Delivering for Nutrition in India: Insights from Implementation Research', September 14-18, 2020 (Virtual Conference).

When it Rains, it Pours: Stylized Facts on COVID-19 Pandemic and Calibrated Policy Response, Economics Alumni Association Webinar, Goa Business School, Goa University, July 29, 2020.

Anemia Mukht Bharat: An Integrated Nutrition and Health Information System, AMB Webinar Series #2, Strengthening Information Systems to Support Programme Coverage with Quality, New Delhi, June 2020.

National Fact sheet on IFA Supply Chain Assessment: Results and Recommendations, AMB Webinar Series #1, Ensuring Uninterrupted Supplies to Last Mile, New Delhi, June 2020.

## **C S R NUTHALAPATI**

### *OTHER ACTIVITIES*

Spoke on 'Evolving Biotechnology and Gaps in Policy Framework' in a webinar panel discussion at the launch of the book 'Socio-economic Impact Assessment of Genetically Modified Crops: Global Implications' published by Springer India and organised by Research and Information Systems for Developing Countries (RIS), New Delhi, July 6, 2020.

Presented a paper entitled 'Startups with Open Innovation: Acceleration Technological Change and Food Value Chain Flows in India' in online mode in the 80th Annual Conference of the Indian Society of Agricultural Economics organised by the Tamil Nadu Agricultural University, Coimbatore, February 10-12, 2021.

## **SAKSHI SAINI**

### *OTHER ACTIVITIES*

Presented a paper on 'Monetary Policy, Risk Aversion and Uncertainty in an International Context' at the 27th Annual Conference of the Multinational Finance Society, June 29, 2020.

Discussed a paper on 'The Relationship between Financial Integration, Inclusion and Stability: An Empirical Study on MENA Countries' at the 27th Annual Conference of the Multinational Finance Society, June 29, 2020.

## **C S C SEKHAR**

Presented a paper titled 'Emerging Opportunities for Rural Labour in Agriculture and Related Activities', 4TH India Agricultural Outlook Forum, New Delhi, India, October 15-16, 2020.

'The Recent Farm Laws in India: Rationale, Implications and the Way Forward', Lecture delivered for 53 Refresher Course in Economics, Jawahar Lal Nehru University, Delhi, March 12, 2021.

## **SURESH SHARMA**

Imparted training for Listing and Mapping to Field staff in NFHS-5 Project

Imparted training to Field Investigators, Health Investigators and Supervisors for the NFHS-5 Project at IEG

ToT training at NIHFWD during 22 March 2021 for NHM

## **SWATI SHARMA**

Presented a paper titled 'Gender and Workplace Interactions: Who is Likely to Lose?' at South Asian Economic Development 2021 Conference (February 25-27, 2021).

## AFFILIATED SCHOLARS

No.	Name of Fellow	Title of Study	Period of Affiliation	Contact Person at IEG	Nationality
1.	Richard Thornton	Teaching and Learning in Contemporary India: Neoliberal Subjectivities and Relational Ontologies	September 1, 2018 to August 31, 2021	Sanjay Srivastava	United Kingdom
2.	Renu Kohli	Can the G20 Reinvigorate Itself and How	August 1, 2020 to July 31, 2021	Pravakar Sahoo	Gurgaon, Haryana
3.	Michael James Levien	Rural Land Markets in Liberalising India	January 2020 to December 2020	Amita Baviskar	United States of America
4.	Trent Brown	Skill Development in India: Assessing Acquisition and Impact	November 15, 2019 to May 15, 2020	Amita Baviskar	Australia
5.	Rita Brara	National Green Tribunal and Rights of Juristic Persons for Nature	December 2019 to December 2021	Amita Baviskar	India
6.	Mukta Jain	'Automation, Patience and Employment', Delhi School of Economic		Mausumi Das (Co-supervised with Anirban Kar)	India
7.	Deepika Kandpal	'Essays on Economics of Social Status', Delhi School of Economics		Mausumi Das (Co-supervised with Sushama Murty)	India
8.	Sutapa Das	'The Impact of Fiscal Policy on Growth and Welfare in an Open Developing Economy: Neoclassical and Post-Keynesian Approach', SIS, JNU		Mausumi Das (Co-supervised with Dibyendu Maiti)	India



## ICSSR POST-DOCTORAL FELLOWS AFFILIATED WITH IEG

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Sonali Madhusmita Mohapatra	Export Performance of Indian Manufacturing Sector	January 1, 2019 to December 31, 2020	Basanta Kumar Pradhan
2.	Dezy Kumari	Human Capital to Skill Formation: Historicizing Labour Policy, Reorienting Social Policy	January 4, 2019 to January 3, 2021	Veena Naregal

## IEG POST-DOCTORAL FELLOWS

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Swati Sharma	Breaking the Glass Ceiling for Women in Indian Manufacturing Sector: Workplace Ties Perspective	November 5, 2020 to November 4, 2021	Ajit Mishra
2.	Dripto Bakshi	The Interactive Dynamics of Caste and Communal Conflict	January 4, 2019 to January 3, 2021	Ajit Mishra

## POST-DOCTORAL FELLOW IN '*THE POLITICAL ECOLOGY OF LARGE DAMS IN INDIA*' PROJECT

No.	Name of Fellow	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Shruti Jain	June 9, 2020 to September 30, 2021	Ajit Mishra Amita Baviskar

## JUNIOR SRT FELLOW

No.	Name of Fellow	Title of Study	Period of Affiliation	Supervisor/ Co-Supervisor at IEG
1.	Sandhya Garg	Access to Banks and Rural Labour Force Diversification: A Study of Indian Villages	April 3, 2020 to April 2, 2022	Sabyasachi Kar
2.	Archana Dang	Role of Time Preferences in Explaining the Burden of Malnutrition: Evidence from Urban India	October 26, 2020 to October 25, 2022	Indrani Gupta Mausumi Das

## ICSSR - DOCTORAL FELLOWS

No.	Name of Fellow and Date of Registration	Title of Study	University/ Supervisor	Supervisor/ Co-Supervisor at IEG
1.	Bisla Rajoria (March 26, 2018)	Non-Farm Income: Determinants and Inequalities in Rural India	Punjab University, Chandigarh  Seepana Prakasam	C.S.C. Sekhar
2.	Mohammad Sajjad Hussain (March 6, 2018)	Platform Economy and Labour	Department of Sociology, University of Delhi  Nandini Sundar	Sanjay Srivastava
3.	Masudul Hasan Adil (March 6, 2018)	The Demand for Money in India: Assessing the Role of Financial Innovation	Mumbai School of Economics & Public Policy, University of Mumbai  Neeraj Hatekar	Pravakar Sahoo
4.	Amit Pandey	Ecological and Economic Significance of Sacred Forests of Kachchh, Gujarat: An Arid Bio-geographic Province of India	TERI SAS  Kavita Sardana	Saudamini Das

\* PhD Awarded by the University of Mumbai



# 9 Infrastructure

## LIBRARY

The IEG library contains a specialised collection of books and documents in the social sciences, with an emphasis on development and planning. It caters mainly to the needs of faculty research and training. It also has micro documents, serials and official publications brought out by research organisations, corporate bodies, international organisations and their allied agencies, universities and the central and the state governments, departments and their research and evaluation cells.

At present, the library has about 1,48,195 accessioned documents (as on March 31, 2021), including books, monographs, workshop papers, conference proceedings, and about 3,500 statistical serials in the social sciences containing statistical information on India and other countries. It also has micro documents such as Institutional Research Reports, working papers and annual reports of companies and government departments and other bodies. In addition, it has a stock of 23,000 back volumes of journals of 1,250 titles. The library receives 187 journals of which it obtains 67 journals on subscription, 28 journals in exchange and 92 journals in gratis. The library exchanges IEG's research output and publications (including its journal, Contributions to Indian Sociology) with similar institutions in India and abroad.

The library has a complete set of census reports commencing from 1872. For the period 1872 to 1951, the census data is in microfiche format and from 1951 to 2011 in hard copy. For 1991, 2001 and 2011, the census is also available in CDs. It also has a unique collection of old manuscripts and documents which it inherited as part of the UNESCO collection. The IEG Library is also having a good collection of important dataset and CDs of ASI, NSS, World Bank, IMF, ADB etc. Its total CD-ROM collection is 1396 as on March 31, 2021.

IEG Library has digitised IEG Working Papers, IEG Discussion Papers etc. All these IEG research papers (full text) may be accessed from the IEG Intranet. IEG Library has also developed a data centre.

Presently, the library is connected with the University of Delhi's LAN systems and a member of DELNET. This allows access to many online resources, journals and databases like Taylor and Francis, Oxford University Press, Cambridge University Press, Sage Online, JSTOR, ScienceDirect, etc. Library receives some databases through ICSSR also like Prowess (CMIE), JSTOR, EBSCO, IndiaStat, etc. IEG library also subscribes to some databases like District Metrics, EPW Research Foundation, etc.

IEG Library had conducted few users' orientation and training programmes for our faculty and researchers. During 2020-21 we organised EBSCO database uses training (online) for the faculty and research staff. IEG Library also provides internship training for short durations in the field of library and information science students from the University of Delhi and institutions, etc.

## COMPUTER UNIT

IEG's computer unit caters to about 170 users, including faculty members, supporting research staff, members of the administration, doctoral students, IES probationary officers and affiliated visitors. We have a large local area network (LAN) serviced by the HP BL460c G7 blade server. IEG also acquired a high-speed fibre link of the National Knowledge Network (NKN) over the University of Delhi's LAN system. It is also being used to access 100+ e-resources (journals, online databases, etc.). IEG also acquired additional 10 MBPS 1:1 internet link to manage internet failure and to provide uninterrupted internet services in the IEG's offices, hostel and the staff quarters which are also interconnected using wire and unified Wi-Fi systems. CCTV camera systems were fixed for security on the campus and a biometric attendance system was installed for effective supervision of personnel. The IES training room of the Institute is installed with modern training amenities such as Digital Podium, wireless PA system.

Faculty members and senior administrative staff are provided with PCs in their offices, connected with individual duplex/MFP laser printers. They are also provided laptops. Heavy-duty printing services are deployed in the computer unit, library and the accounts section of the Institute. Modern systems such as Digital Podium facilitate training programmes. IEG's software library has advanced application and econometric packages which cover MS Office, Adobe Acrobat Eviews 9.1, Limdep 7.0, Stata 15.0, Stella 5.0, Vensim 5.5 (DSS), GAMS 2.5, MFIT 5.0, MLwin, RATS 6.0, ArcGIS 10.1, etc. Network and online database such as Ace Equity, Prowess are also available.

The feature-rich IEG website uses CMS which allows the faculty, research units and administration to easily update their information. It also incorporates an online job portal, events manager and off-campus faculty login. The Audio-Visual Room of the Institute is equipped with VHF audio conferencing and can be used for web conferencing, live interviews, live presentations and demo programmes.

IEG is also recognised for its growing presence on social networking sites including Twitter, YouTube and Facebook. We have registered nearly 1,000+ followers on these accounts and 15,000+ connects on YouTube. Web-analytics reveal that Institute events have been watched on YouTube in 50+ countries across the world.

The Computer Unit developed National Dashboard AnemiaMuktBharat.Info for Anemia Mukt Bharat Programme under MoHFW, GoI funded by UNICEF, Mr. Vinod K. Tyagi worked as Co-investigator (Lead Technical) during the years 2019-2020 and 2020-21.

The Computer Unit managed and maintained NutritionIndia.Info National Dashboard for MoHFW, Government of India funded by the UNICEF Mr. Vinod K. Tyagi worked as Co-investigator (Lead Technical).

The Computer Unit is managing Nutritional Status of Children in India Dashboard developed by Harvard Center for Population and Development Studies on the IEG website. Mr. Vinod K. Tyagi is managing the Dashboard on the IEG website.

## IEG GUEST HOUSE AND OFFICER'S HOSTEL

The IEG Guest House and Hostel caters primarily to the needs of the participants of various training courses and orientation programmes conducted by the Institute, such as probationers and serving officers of the IES and the Indian Audit and Accounts Service, participants in conferences held at the Institute and IEG's own guests.

The hostel is governed by a management committee chaired by the IEG director and convened by the warden, who is usually a senior professor at the Institute and responsible for the hostel's smooth functioning.

Dr. Oindrila De is currently the Warden.



## BOARD OF TRUSTEES

### Trustees

- Manmohan Singh (President)
- Tarun Das
- Nitin Desai
- Naushad Forbes
- Jamshyd N. Godrej
- Bimal Jalan
- Vinay Bharat Ram
- N.K. Singh

### Ex-Officio Members

- Tarun Das (Chairman, Board of Governors)
- Anindo Majumdar (Honorary Treasurer)
- Ajit Mishra (Director)

## BOARD OF GOVERNORS

### Chairman

- Tarun Das

### Members

- Secretary, Ministry of Agriculture and Farmers' Welfare
- P.G. Babu, Director, MIDS
- Chandrajit Banerjee, Director General, Confederation of Indian Industry
- Sangeeta Chakravorty, IEG faculty
- S. Mahendra Dev, Director (Vice Chancellor), Indira Gandhi Institute of Development Studies
- Oindrila De, IEG faculty
- Amitabh Kant, CEO, NITI Aayog
- V.K. Kaul, faculty, Department of Business Economics, University of Delhi
- Surender Kumar, faculty, Delhi School of Economics, University of Delhi
- Virendra Kumar Malhotra, Member-Secretary, ICSSR
- Basanta Kumar Pradhan, IEG faculty
- Y.S. Rajan, former faculty, ISRO
- Pravakar Sahoo, IEG faculty
- Malabika Sarkar, Vice Chancellor, Ashoka University
- Rohini Somanathan, faculty, Delhi School of Economics, University of Delhi
- Krishnamurthy V. Subramanian, Chief Economic Adviser, Ministry of Finance
- Secretary, Ministry of Health and Family Welfare
- R. Vaidyanathan, Prof. of Finance & Control (Retd.), IIM, Bangalore

### Ex-officio Members

Anindo Majumdar, Honorary Treasurer, IEG  
Ajit Mishra, Director and Member-Secretary, IEG

## BOARD COMMITTEES

### COMMITTEE FOR ADMINISTRATION AND FINANCE

- Tarun Das, Chairman, IEG
- Anindo Majumdar, Honorary Treasurer, IEG and Permanent Invitee
- Virendra Kumar Malhotra, Member-Secretary, Indian Council of Social Science Research
- Ajit Mishra, Director and Member-Secretary, IEG
- Basanta Kumar Pradhan, IEG faculty
- Pravakar Sahoo, IEG faculty

### ACADEMIC COMMITTEE

- Ajit Mishra, Director, IEG and Chairman
- Sanghamitra Sheel Acharya, Professor, Centre of Social Medicine and Community Health, JNU
- Sangeeta Chakravorty, Junior-most Associate Professor
- Oindrila De, Senior-most Assistant Professor
- Indrani Gupta, Head, Health Policy Research Unit
- Basanta Pradhan, Head, Development Planning Centre
- Manoj Panda, RBI Unit
- Pravakar Sahoo, Head, IES Section
- C.S.C. Sekhar, Head, Agricultural Economics Research Unit
- Uday Bhanu Sinha, Professor, Delhi School of Economics
- Suresh Sharma, Head, Population Research Centre

## LEGALLY CONSTITUTED COMMITTEES

### Right to Information

The Public Information Officer at the IEG is Dr. Sushil Kumar Sen (Academic Programmes Officer, IEG).  
The Appellate Authority is Prof. Ajit Mishra (Director, IEG).

### Internal Complaints Committee

- The Internal Complaints Committee is constituted in accordance with The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 (No.14 of 2013).
- Prof. Indrani Gupta, Chairperson
- Dr. Pravakar Sahoo, Member
- Dr. Sangeeta Chakravorty, Member
- Mrs. Ganga Bora, Member
- Ms. Bisla Devi, Member
- Dr. Deepali Bhanot (Retired faculty, Janki Devi College, University of Delhi), Co-opted Member
- Mr. P.K. Agarwal (Advocate), Co-opted Member
- Dr. Sushil Kumar Sen, Member-Secretary

### Gender Sensitisation Committee against Sexual Harassment (GSCASH)

The Gender Sensitisation Committee against Sexual Harassment (GSCASH) was instituted by the Director on April 9, 2019 consistent with The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act of India, 2013, as per the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013 (Chapter VI of the Gazette: Duties of Employer).

- Prof. Nilabja Ghosh, Chairperson
- Dr. Sakshi Saini, Member
- Ms. Neeta Bakhru, Member
- Ms. Vandana Sharma, Member
- Ms. Bimla Devi, Member
- Dr. Sushil Kumar Sen, Convenor

In partnership with the Internal Complaints Committee (ICC), the GSCASH, chaired by Prof. Nilabja Ghosh, has been working towards ensuring gender sensitivity with training, information and a system of redressal.

The IEG community is made up of regular, temporary, and outsourced staff, with a fair share of women but presents diversity by employing highly educated faculty, junior members still in learning stage, administrative and qualified personnel, a large number of workers in labour category, often from rural and less educated background with high levels of vulnerability. Moreover, vendors and other service providers also visit the premises and the campus has a residential sector. Some of the divisions in IEG and its staff are funded from public sources.

The GSCASH had a first meeting on July 25, 2019 for which the Vishaka guidelines and the Saksham report of UGC were read with care and a report prepared and circulated, identifying the concepts and applications for IEG, emphasising a zero- tolerance policy and a practice of holding workshops for dissemination, understanding and also conversation. Prof. Amita Baviskar of the ICC suggested that the process begin with a lecture; on February 3, 2020, Partners for Law in Development (PLD) delivered a lecture. Many IEG members attended, participated and raised many pertinent questions. Subsequently, posters explaining the concept and policy of gender safety were pasted in visible key sites of IEG in English and Hindi.

As a follow-up, the Chairperson invited Prof. Namita Ranganathan and Dr. Meena Panicker, two eminent members of the faculty at the University of Delhi with considerable experience in the area, to share their ideas and experiences at an online workshop on February 19, 2021. The speakers spoke sensitively on the topic of gender justice, and specifically at the workplace, emphasising understanding and introspection of the topic, gender complementarity at work and the practical applications of the policy in interaction with the IEG community.

## ACADEMIC STAFF

### DIRECTOR

- Ajit Mishra

### PROFESSORS

- Mausumi Das
- Purnamita Dasgupta (on leave)
- Vikram Dayal
- Nilabja Ghosh
- Indrani Gupta
- Brajesh Jha
- Sabyasachi Kar
- Arup Mitra
- Veena Naregal
- N. Chandra Sekhara Rao Nuthalapati
- Basanta Kumar Pradhan
- Pravakar Sahoo
- C.S.C. Sekhar
- Suresh Sharma

### ASSOCIATE PROFESSOR

- Sangeeta Chakravorty

### ASSISTANT PROFESSORS

- Oindrila De
- William Joe
- Sakshi Saini
- Gudakesh

### HONORARY PROFESSORS

- T.N. Madan
- C.H. Hanumantha Rao

### JUNIOR SRT FELLOW

- Sandhya Garg
- Archana Dang

### IEG POST-DOCTORAL FELLOWS

- Swati Sharma
- Dripto Bakshi

### POST-DOCTORAL FELLOW

(in 'The Political Ecology of Large Dams in India' project)

- Shruti Jain

### IEG-CDE FELLOW

- Komal Sahai

### PROFESSOR IN PROJECT

- Saudamini Das

## **RETIRED PROFESSOR (WORKING ON PROJECT)**

- Bina Agarwal

## **ICSSR POST-DOCTORAL FELLOWS**

- Dezy Kumari
- Sonali Madhusmita Mohapatra
- ICSSR DOCTORAL FELLOWS
- Masudul Hasan Adil
- Mohammad Sajjad Hussain
- Bisla Rajoria
- Amit Pandey

## **RESEARCH STAFF**

### **RESEARCH OFFICERS**

- Devmani Upadhyay

### **PROJECT OFFICERS**

- Diwas Singh Saun

### **SENIOR RESEARCH ANALYSTS**

- M. Rajeshwor
- Namrata Thapa
- Rajeev Sharma
- Shilpi Nagalia
- Vikas Singh

### **EDITORIAL ASSOCIATE**

- Bikram Sharma

### **RESEARCH ANALYST (IES Section)**

- Meghna Dasgupta

### **RESEARCH ANALYSTS**

- Alka
- Monali Kumari
- Mulla Areef
- Satarupa Chakravarty
- Udisha Saklani

### **FIELD INVESTIGATORS**

- Anshita Sharma
- Bindiya Kumari
- Purva Bhalla
- Saroj Kumar



## RESEARCH INVESTIGATORS

- Aashima Gupta
- Jyoti
- Rahul Kumar
- Vandana Sharma

## RESEARCH FELLOWS

- Sonal Choudhari
- Debayanti Bhowmick

## PROJECT ASSISTANT

- Anjana

## DATA ENTRY OPERATOR

- Yashika Rani

## RESEARCH STAFF

### (Working in Projects Under Professional Service Agreements)

- Ruby Alambusha Singh
- Narendra Patel
- Abhishek
- Atif Amin
- Rakesh Kumar
- Avi Saini
- Anwesha Lahiri
- Rinju Vishwakarma
- Ajay Kumar Verma
- Tashi Choedon
- Sunil Rajpal
- S.V. Subramanian
- Avantika Ranjan
- Kanksha Barman
- Arjun Roy
- Sandhyarani Angom
- Amritanshi Preeti
- Sanjiv Pasricha
- Shruthi Naik
- Smriti Rao
- Niket Gehlawar
- Kavitha Srikanth
- P. Indira Devi
- Pratichi Majumdar
- Rangan Chakravarty
- Anwesha Aditi
- Vangapally Sreenivas

## **ADMINISTRATIVE STAFF**

### **Director**

- Ajit Mishra

### **Academic Programmes Officer**

- Sushil Kumar Sen

### **Officer on Special Duty (Finance)**

- Devi Datt Kandpal

### **Administrative Officer**

- Siba Sankar Sahoo

### **Computer System Administrator:**

- Vinod Kumar Tyagi

### **Accounts Officer**

- V.M. Budhiraja

### **Programmer**

- Parag Kamal Sharma

### **Assistant Programmer (Computer)**

- Rajesh Chatwal

### **Administrative Assistant**

- Neeta Bakhru

### **Senior Assistants**

- Ganga Bora, R. Viswanathan, Sanjay Kumar

### **Senior Stenographer**

- Nirmal, Sonia, Kaushal Kant Joshi

### **Stenographer**

- Amit Kumar

### **Accounts Executive**

- Surendra Thakur (on contract)

### **Technical Assistant (Computer)**

- Satya Narain

### Assistants

- Baliram Prasad
- Sanjay Jethani
- Mukesh Kumar
- Subhash Kumar

### Junior Assistants

- Ravinder Singh Rawat,
- Shankar Dutt Tiwari,
- Harish Dutt,
- Deepak Arora (on contract)

### Senior Lab Assistant (Computer)

- Inder Kumar

### Computer

- Vikas Kumar

### Drivers

- Govind Singh
- Chanchal Singh Bora

### Despatch Rider

- Ram Murat Tiwari

### Caretaker

- Nikhil Miglani  
(contractual on consolidated salary)

### Multi-tasking Staff

- Bimla Devi

### Chowkidar

- Mahadev

### Documentalist

- Aditi Dixit (on contract)

### **Assistants in Accounts Section**

- Vandana Rani (on contract)
- Bharat (on contract)

### **Head Cook**

- Chandan Singh

### **Cook**

- Sumit Baghel

### **Kitchen Assistant**

- Shiv Kumar

### **Mess Bearer**

- Ram Lal

## **LIBRARY**

### **Librarian**

- P.K. Jain

### **Assistant Librarian**

- Sanjeev Kumar Jha

### **Professional Assistants**

- Trilok Chand Joshi
- Mahija Deepu
- Yogesh Kumar Saini

### **Library Attendants**

- KM Anita (on contract)
- Mamta (on contract)





## FINANCIAL SUMMARY OF RECEIPT AND EXPENDITURE FOR THE YEAR 2020-21

(Rupees in Lakh)

PARTICULARS		2020-21		2019-20	
		RECEIPT	EXPENDITURE	RECEIPT	EXPENDITURE
<b>1. REGULAR SECTIONS</b>					
a	Maintenance and Development Section (ICSSR_OH 36 grant)	327.42	468.99	370.00	508.00
b	Maintenance and Development Section (ICSSR_OH 31 grant)	10.00	10.00	50.00	50.00
c	Training Programme for Indian Economic Service Officers (Ministry of Finance, New Delhi)	389.90	389.90	332.46	332.46
d	Population Research Centre (Ministry of H & FW)	186.40	176.50	209.47	207.92
e	Agro Eco. Research Centre (Ministry of Agriculture)	280.00	267.76	240.11	255.66
<b>Sub Total</b>		<b>1,193.72</b>	<b>1,313.15</b>	<b>1,202.04</b>	<b>1,354.04</b>
<b>2. ENDOWMENT SECTIONS</b>					
a	Dr.V.K.R.V.Rao Centre for Studies in Globalisation	5.65	2.33	5.65	1.44
b	Development Planning Centre	25.33	4.15	25.38	61.07
c	Library Development Fund	5.91	6.25	4.98	6.36
d	Sir Ratan Tata Trust Fellowship	24.61	14.26	25.86	9.80
e	Chair in Environmental Economics	12.96	14.39	12.96	32.39
f	RBI Chair in Econometrics	38.88	47.45	31.59	34.65
g	Sir V.T.K. Memorial Lecture Fund	0.78	-	0.78	-
h	D.Umapathy Shastri Fund	0.28	-	0.28	-
<b>Sub Total</b>		<b>114.40</b>	<b>88.83</b>	<b>107.48</b>	<b>145.71</b>
<b>3. Sponsored Projects/Workshop Non-FCRA</b>		469.24	462.39	476.10	499.03
<b>4. Sponsored Projects/Workshop FCRA</b>		136.83	281.38	512.51	432.57
<b>5. ICSSR Fellowship</b>		3.29	15.95	12.69	13.70
<b>6. Own Funds</b>		527.20	276.71	550.59	306.10
<b>7. Earmarked Funds</b>		105.21	39.47	41.33	2.78
<b>GRAND TOTAL ( 1 to 7 )</b>		<b>2,549.89</b>	<b>2,477.88</b>	<b>2,902.74</b>	<b>2,753.93</b>

[www.iegindia.org](http://www.iegindia.org)



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सत्यमेव परमो धर्मः

**INSTITUTE OF ECONOMIC GROWTH**

University of Delhi Enclave, (North Campus), Delhi-110007, India.

☎: 91-11-27667288/424/365/570 📠: 91-11-27667410